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PRODUCT CATALOG

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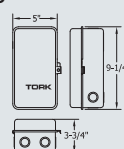
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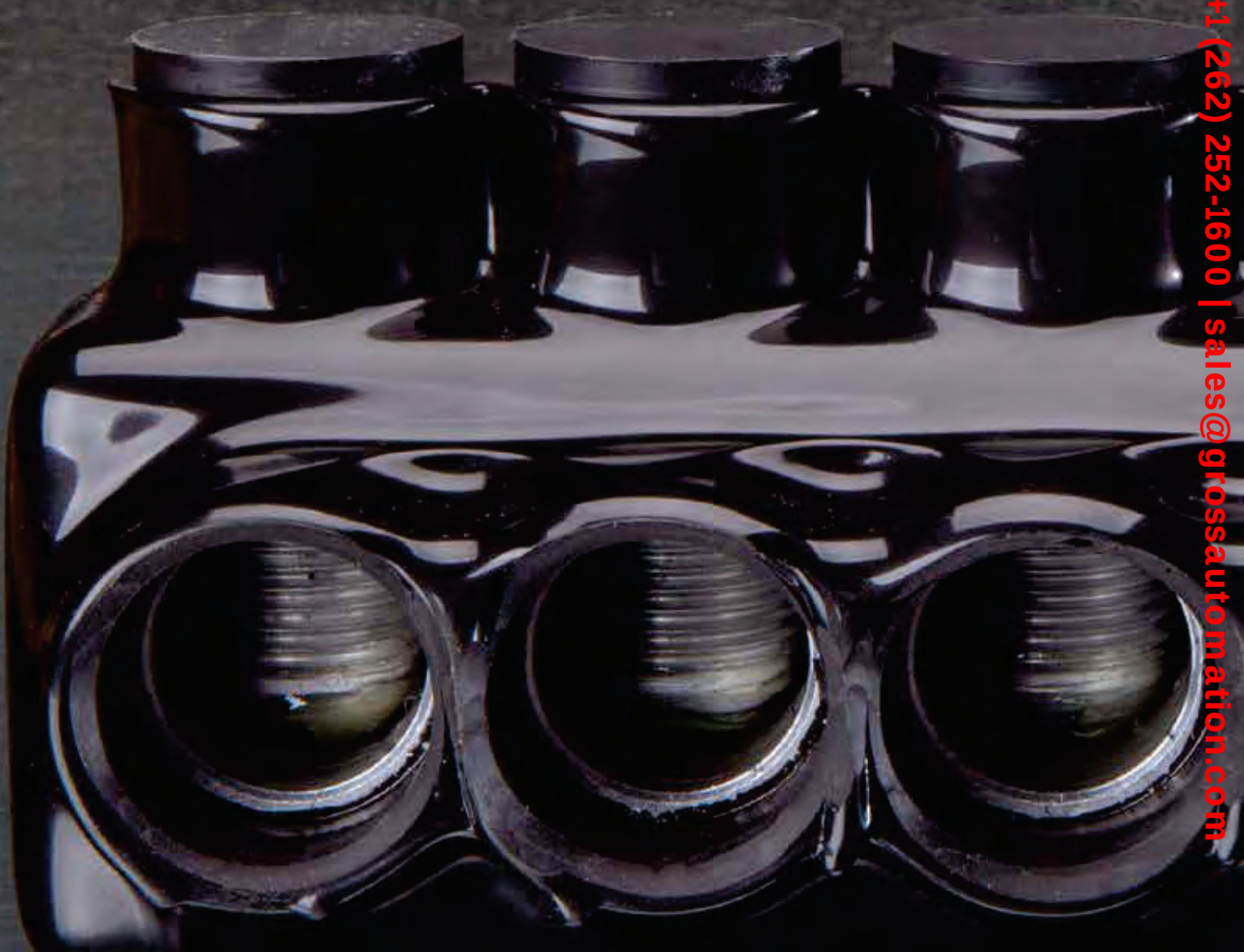


Enclosures



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POLARIS[™]



POLARIS GREY™

Pre-Insulated, Multi-Port Connectors

For Fine Stranded Wire

ITG, ITOG, IPLG, SITG Series



SPECIFICATIONS

- **UL Listed 486A Wire Connector** (Dry location).
- **Temperature Rating/Voltage:** CU9.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Can be used with Class B, C, D, K, M, I of copper conductor, but is specifically designed for use with fine-stranded, flexible and extra-flexible copper conductors. This includes DLO cable and motor lead wire — excellent for use in motor connect/disconnect applications.
- **Torque Chart:** See page 34.
- **Installation Instructions:** See page 35 for extra illustrations and detailed information for assembly, mounting and installation.

FEATURES

- **Safe:** Insulated with high dielectric strength plastisol for tough mechanical protection.
- Factory applied insulation provides consistent quality and protection.
- Abrasion and chemical resistant.
- **Fast:** Eliminates the need for cover and taping — supplied with removable access plugs over the hex screws to protect against contamination.
- **Easy:** Three sizes cover 14 to 3/0 AWG.
- **Reusable:** Ideal for cabletrays, troughs, wire-ways, raceways, ducts and motor junction boxes for fine stranded conductor applications .
- For copper wire only.
- For display bags with a mounting hole for hanging, add the suffix "-B" to the part number when ordering.

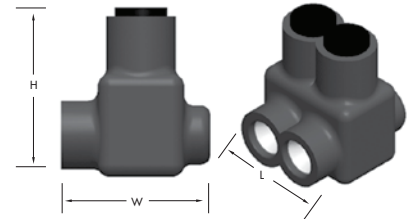


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE (BY CLASSIFICATION)		LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)		STD. CTN. QTY.
		CLASS B, C, D	CLASS K, M, I							
ITG-6	2	6-14 AWG	6-14 AWG	1.130	1.240	1.370	45	1/8		12
ITOG-6	2	6-14 AWG	6-14 AWG	1.130	1.270	1.370	45	1/8		12
IPLG6-3	3	6-14 AWG	6-14 AWG	1.550	1.240	1.370	45	1/8		12
IPLG6-4	4	6-14 AWG	6-14 AWG	1.980	1.240	1.370	45	1/8		6
IPLG6-6	6	6-14 AWG	6-14 AWG	2.820	1.240	1.370	45	1/8		6
ITG-1	2	1-10 AWG	2-10 AWG	1.600	1.550	1.750	150	3/16		6
ITOG-1	2	1-10 AWG	2-10 AWG	1.600	1.630	1.750	150	3/16		6
IPLG1-3	3	1-10 AWG	2-10 AWG	1.550	1.240	1.370	150	3/16		6
IPLG1-4	4	1-10 AWG	2-10 AWG	1.980	1.240	1.370	150	3/16		6
IPLG1-6	6	1-10 AWG	2-10 AWG	2.820	1.240	1.370	150	3/16		6
ITG-3/0	2	3/0-4 AWG	2/0-2 AWG	1.850	1.600	1.810	250	3/16		6
ITOG-3/0	2	3/0-4 AWG	2/0-2 AWG	1.850	1.630	1.810	250	3/16		6
IPLG3/0-3	3	3/0-4 AWG	2/0-2 AWG	2.250	1.600	1.750	250	3/16		6
IPLG3/0-4	4	3/0-4 AWG	2/0-2 AWG	2.900	1.600	1.750	250	3/16		6
IPLG3/0-6	6	3/0-4 AWG	2/0-2 AWG	4.200	1.600	1.750	250	3/16		4

REPLACEMENT SLEEVES	
CAT. NO.	STD. PKG. QTY.
SITG-6	10
SITG-1	10
SITG-3/0	10

POLARIS™ **Pre-Insulated Connectors** Dual Rated Two-Wire IT, ITO, ITH Series



SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire (see Polaris Grey™ Series page 13).
- **Torque Chart:** See page 34.

FEATURES

- Insul-Tap connectors, suitable for connecting two wires.
- For sizes 3/0AWG and smaller, available in two styles: wires being connected from the same side of the connector (Figure 1) or opposite sides of the connector (Figure 2).
- For sizes 250 MCM and larger, provided with open wire entry ports on both sides of the connector (Figure 3), which allows for access from either side. This style is supplied with removable access plugs to close the entry port not being utilized.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

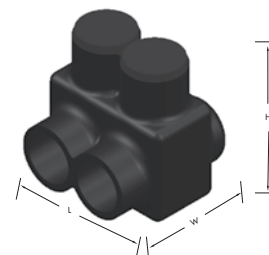


Figure varies by number of wire ports.

CAT. NO.	FIG. NO.	NO. OF PORTS	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IT-4	1	2	4-14 AWG	1.120	1.180	1.380	45	Slotted	12
ITO-4	2	2	4-14 AWG	1.120	1.250	1.380	45	Slotted	12
IT-4A	1	2	4-14 AWG	1.120	1.180	1.380	45	1/8	12
IT-1/0	1	2	1/0-14 AWG	1.620	1.620	1.750	180	3/16	6
ITO-1/0	2	2	1/0-14 AWG	1.620	1.750	1.750	180	3/16	6
IT-3/0	1	2	3/0-6 AWG	1.840	1.750	1.870	250	1/4	6
ITO-3/0	2	2	3/0-6 AWG	1.840	1.870	1.870	250	1/4	6
IT-250	3	2	250 MCM-6 AWG	2.120	2.250	2.250	360	5/16	6
IT-350	3	2	350 MCM-6 AWG	2.470	2.500	2.440	400	5/16	4
IT-500	3	2	500 MCM-4 AWG	2.810	2.870	2.940	450	5/16	4
IT-600	3	2	600 MCM-6 AWG	2.340	2.940	3.050	550	5/16	4
IT-750 (Not UL Listed)	3	2	750-250 MCM	3.480	3.500	3.500	550	3/8	2
ITH-750	4	2	750-1/0 MCM	3.480	4.500	3.500	550	5/16	2

POLARIS™
Pre-Insulated Connectors
Dual Rated Splicer/Reducers
ISR, ISRH Series



FEATURES

- Suitable for connecting two wires in-line.
- Insulated with high dielectric strength plastisol and molded for precise fit.
- Supplied with removable access plugs over the hex screw.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

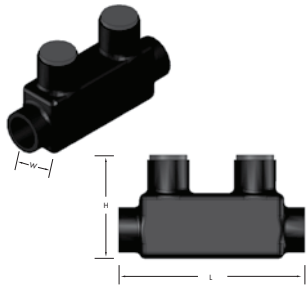
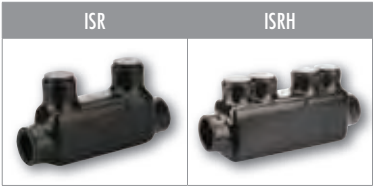


Figure varies by number of wire ports.

SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for use with extra-flexible cables (see Polaris Grey™ Series page 13).
- **Torque Chart:** See page 34.

CAT. NO.	FIG. NO.	NO. OF PORTS	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
ISR-1/0	1	2	1/0-14 AWG	3.250	0.900	1.480	180	3/16	4
ISR-250	1	2	250 MCM-6 AWG	4.000	1.190	1.900	360	5/16	4
ISR-350	1	2	350 MCM-6 AWG	4.470	1.320	2.200	400	5/16	2
ISR-500	1	2	500 MCM-4 AWG	4.620	1.620	3.000	450	5/16	2
ISR-600	1	2	600 MCM-6 AWG	5.830	1.570	3.050	550	5/16	2
ISRH-750	2	2	750 MCM-1/0 AWG	7.250	1.750	3.250	550	5/16	2

POLARIS™**Pre-Insulated Connectors**Multi-Conductor Connector, One Side Wire Entry
IPL Series**SPECIFICATIONS**

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** See page 34.

FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

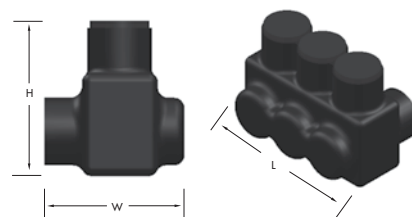


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)		STD. CTN. QTY.
IPL4-3	3	4-14 AWG	1.550	1.188	1.375	45	Slotted		12
IPL4-3A	3	4-14 AWG	1.550	1.188	1.375	45	1/8		12
IPL4-4	4	4-14 AWG	1.970	1.188	1.375	45	Slotted		6
IPL4-4A	4	4-14 AWG	1.970	1.188	1.375	45	1/8		6
IPL4-5	5	4-14 AWG	2.390	1.188	1.375	45	Slotted		6
IPL4-6	6	4-14 AWG	2.810	1.188	1.375	45	Slotted		6
IPL4-8	8	4-14 AWG	3.660	1.188	1.375	45	Slotted		4
IPL4-8A	8	4-14 AWG	3.660	1.188	1.375	45	1/8		4
IPL4-10	10	4-14 AWG	4.500	1.188	1.375	45	Slotted		4
IPL4-12	12	4-14 AWG	5.100	1.188	1.375	45	Slotted		2
IPL4-14	14	4-14 AWG	6.180	1.188	1.375	180	Slotted		2
IPL1/O-3	3	1/0-14 AWG	2.240	1.500	1.688	180	3/16		6
IPL1/O-4	4	1/0-14 AWG	2.890	1.500	1.688	180	3/16		6
IPL1/O-5	5	1/0-14 AWG	3.540	1.500	1.688	180	3/16		6
IPL1/O-6	6	1/0-14 AWG	4.190	1.500	1.688	180	3/16		4
IPL1/O-8	8	1/0-14 AWG	5.490	1.500	1.688	180	3/16		4
IPL1/O-10	10	1/0-14 AWG	6.820	1.500	1.688	180	3/16		3
IPL1/O-12	12	1/0-14 AWG	8.120	1.500	1.688	180	3/16		2
IPL1/O-14	14	1/0-14 AWG	9.420	1.500	1.688	250	3/16		2
IPL3/O-3	3	3/0-6 AWG	2.630	1.600	1.800	250	5/16		6
IPL3/O-4	4	3/0-6 AWG	3.410	1.600	1.800	250	5/16		4
IPL3/O-5	5	3/0-6 AWG	4.190	1.600	1.800	250	5/16		4
IPL3/O-6	6	3/0-6 AWG	4.970	1.600	1.800	250	5/16		3
IPL3/O-8	8	3/0-6 AWG	6.530	1.600	1.800	250	5/16		3



FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

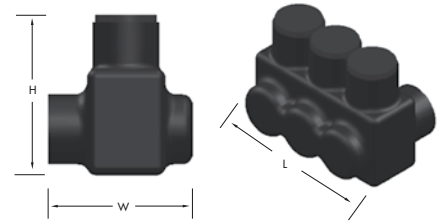


Figure varies by number of wire ports.

CAT. NO.	CERTIFICATION	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPL250-3	cULus	3	250 MCM-6 AWG	—	—	2.930	2.030	2.180	360	5/16	6
IPL250-4*	cULus	4	250 MCM-6 AWG	527A	410 A	3.800	2.030	2.180	360	5/16	4
IPL250-5	cULus	5	250 MCM-6 AWG	—	—	4.660	2.030	2.180	360	5/16	4
IPL250-6*	cULus	6	250 MCM-6 AWG	790 A	615 A	5.220	2.030	2.180	360	5/16	3
IPL250-8*	cULus	8	250 MCM-6 AWG	1053 A	820 A	7.240	2.030	2.180	360	5/16	4
IPL350-3	cULus	3	350 MCM-6 AWG	—	—	3.470	2.130	2.460	400	5/16	3
IPL350-4*	cULus	4	350 MCM-6 AWG	657 A	514 A	4.540	2.130	2.460	400	5/16	3
IPL350-5	cULus	5	350 MCM-6 AWG	—	—	5.570	2.130	2.460	400	5/16	2
IPL350-6*	cULus	6	350 MCM-6 AWG	985 A	770 A	6.620	2.130	2.460	400	5/16	2
IPL350-8*	cULus	8	350 MCM-6 AWG	1314 A	1028 A	8.720	2.130	2.460	400	5/16	3
IPL500-3	cULus	3	500 MCM-4 AWG	—	—	3.960	2.500	2.940	450	5/16	3
IPL500-4*	cULus	4	500 MCM-4 AWG	806 A	631 A	5.110	2.500	2.940	450	5/16	2
IPL500-5	cULus	5	500 MCM-4 AWG	—	—	6.250	2.500	2.940	450	5/16	2
IPL500-6*	cULus	6	500 MCM-4 AWG	1209 A	946 A	7.400	2.500	2.940	450	5/16	2
IPL500-7	cULus	7	500 MCM-4 AWG	—	—	8.590	2.500	2.940	450	5/16	2
IPL500-8*	cULus	8	500 MCM-4 AWG	1612 A	1262 A	9.690	2.500	2.940	450	5/16	3
IPL600-3	cULus	3	600 MCM-6 AWG	—	—	4.470	2.710	3.020	550	5/16	2
IPL600-4*	cULus	4	600 MCM-6 AWG	1035 A	810 A	5.770	2.710	3.020	550	5/16	2
IPL600-6*	cULus	6	600 MCM-6 AWG	1554 A	1215 A	8.370	2.710	3.020	550	5/16	3
IPL750-3	—	3	750-250 MCM	—	—	4.950	3.090	3.490	550	3/8	2
IPL750-4	—	4	750-250 MCM	—	—	6.380	3.090	3.490	550	3/8	1
IPL750-5	—	5	750-250 MCM	—	—	7.800	3.090	3.490	550	3/8	1
IPL750-6	—	6	750-250 MCM	—	—	9.230	3.090	3.490	550	3/8	1



*NSi Industries Polaris™ Connectors have created another “Industry First” by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for copper and aluminum parallel conductors. **Polaris™ Parallel Rated** Connectors provide safety and NEC compliance when installing parallel runs. Source Polaris™ Parallel Rated Connectors, the only UL Listed brand to offer a “Parallel Rating”. Available in 2, 3 & 4 Parallels (4,6 & 8 hole) in wire ranges of 250 MCM-6 AWG, 350 MCM-6 AWG, 500 MCM-4 AWG, 600 MCM-6 AWG and 750 MCM-250 MCM.

POLARIS™**Pre-Insulated Connectors****Multi-Conductor Connector Either Side Wire Entry**
IPLD Series**SPECIFICATIONS**

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

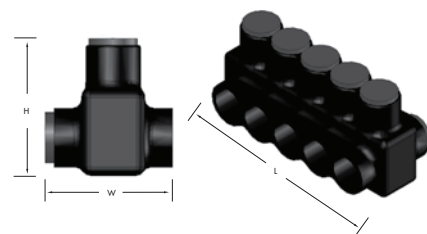


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLD3/0-3	3	3/0-6 AWG	—	—	2.630	1.830	1.790	250	1/4	6
IPLD3/0-4	4	3/0-6 AWG	—	—	3.410	1.830	1.790	250	1/4	6
IPLD3/0-5	5	3/0-6 AWG	—	—	4.190	1.830	1.790	250	1/4	4
IPLD3/0-6	6	3/0-6 AWG	—	—	4.970	1.830	1.790	250	1/4	4
IPLD3/0-7	7	3/0-6 AWG	—	—	5.750	1.830	1.790	250	1/4	3
IPLD3/0-8	8	3/0-6 AWG	—	—	6.530	1.830	1.790	250	1/4	3
IPLD3/0-10	10	3/0-6 AWG	—	—	8.090	1.830	1.790	250	1/4	2
IPLD3/0-12	12	3/0-6 AWG	—	—	9.70	1.830	1.790	250	1/4	2
IPLD250-3	3	250 MCM-6 AWG	—	—	2.930	2.280	2.180	360	5/16	6
IPLD250-4*	4	250 MCM-6 AWG	527 A	410 A	3.800	2.280	2.180	360	5/16	6
IPLD250-5	5	250 MCM-6 AWG	—	—	4.660	2.280	2.180	360	5/16	4
IPLD250-6*	6	250 MCM-6 AWG	790 A	615 A	5.520	2.280	2.180	360	5/16	4
IPLD250-7	7	250 MCM-6 AWG	—	—	6.380	2.280	2.180	360	5/16	3
IPLD250-8*	8	250 MCM-6 AWG	1053 A	820 A	7.240	2.280	2.180	360	5/16	3
IPLD250-10	10	250 MCM-6 AWG	—	—	8.970	2.280	2.180	360	5/16	2
IPLD250-12	12	250 MCM-6 AWG	—	—	10.740	2.280	2.180	360	5/16	2
IPLD350-3	3	350 MCM-6 AWG	—	—	3.520	2.410	2.610	400	5/16	3
IPLD350-4*	4	350 MCM-6 AWG	657 A	514 A	4.570	2.410	2.610	400	5/16	3
IPLD350-5	5	350 MCM-6 AWG	—	—	5.620	2.410	2.610	400	5/16	3
IPLD350-6*	6	350 MCM-6 AWG	985 A	770 A	6.670	2.410	2.610	400	5/16	3
IPLD350-7	7	350 MCM-6 AWG	—	—	7.720	2.410	2.610	400	5/16	2
IPLD350-8*	8	350 MCM-6 AWG	1314 A	1028 A	8.770	2.410	2.610	400	5/16	2
IPLD350-9	9	350 MCM-6 AWG	—	—	9.820	2.410	2.610	400	5/16	2
IPLD350-10	10	350 MCM-6 AWG	—	—	10.870	2.410	2.610	400	5/16	2
IPLD350-12	12	350 MCM-6 AWG	—	—	12.970	2.410	2.610	400	5/16	1



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.



FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

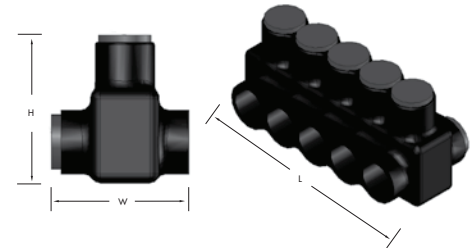


Figure varies by number of wire ports.

CAT. NO.	CERTIFICATION	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLD500-3	cULus	3	500 MCM-4 AWG	—	—	4.010	2.830	2.910	450	5/16	3
IPLD500-4*	cULus	4	500 MCM-4 AWG	806A	631 A	5.240	2.830	2.910	450	5/16	3
IPLD500-5	cULus	5	500 MCM-4 AWG	—	—	6.380	2.830	2.910	450	5/16	2
IPLD500-6*	cULus	6	500 MCM-4 AWG	1209 A	946 A	7.520	2.830	2.910	450	5/16	2
IPLD500-7	cULus	7	500 MCM-4 AWG	—	—	8.670	2.830	2.910	450	5/16	2
IPLD500-8*	cULus	8	500 MCM-4 AWG	1612 A	1262 A	9.820	2.830	2.910	450	5/16	2
IPLD500-9	cULus	9	500 MCM-4 AWG	—	—	10.880	2.830	2.910	450	5/16	2
IPLD500-10	cULus	10	500 MCM-4 AWG	—	—	12.110	2.830	2.910	450	5/16	1
IPLD500-12	cULus	12	500 MCM-4 AWG	—	—	14.400	2.830	2.910	450	5/16	1
IPLD600-3	cULus	3	600 MCM-6 AWG	—	—	4.550	2.960	3.030	550	5/16	3
IPLD600-4*	cULus	4	600 MCM-6 AWG	1035 A	810 A	5.850	2.960	3.030	550	5/16	3
IPLD600-5	cULus	5	600 MCM-6 AWG	—	—	7.150	2.960	3.030	550	5/16	2
IPLD600-6*	cULus	6	600 MCM-6 AWG	1554 A	1215 A	8.450	2.960	3.030	550	5/16	2
IPLD600-7	cULus	7	600 MCM-6 AWG	—	—	9.750	2.960	3.030	550	5/16	2
IPLD600-8*	cULus	8	600 MCM-6 AWG	2070 A	1620 A	11.050	2.960	3.030	550	5/16	2
IPLD600-9	cULus	9	600 MCM-6 AWG	—	—	12.390	2.960	3.030	550	5/16	1
IPLD600-10	cULus	10	600 MCM-6 AWG	—	—	13.650	2.960	3.030	550	5/16	1
IPLD600-12	cULus	12	600 MCM-6 AWG	—	—	16.250	2.960	3.030	550	5/16	1
IPLD750-3	—	3	750-250 MCM	—	—	4.950	3.410	3.420	550	3/8	3
IPLD750-4	—	4	750-250 MCM	—	—	6.380	3.410	3.420	550	3/8	2
IPLD750-5	—	5	750-250 MCM	—	—	7.800	3.410	3.420	550	3/8	1
IPLD750-6	—	6	750-250 MCM	—	—	9.230	3.410	3.420	550	3/8	1
IPLD750-7	—	7	750-250 MCM	—	—	10.650	3.410	3.420	550	3/8	1
IPLD750-8	—	8	750-250 MCM	—	—	12.080	3.410	3.420	550	3/8	1
IPLD750-9	—	9	750-250 MCM	—	—	13.690	3.410	3.420	550	3/8	1
IPLD750-10	—	10	750-250 MCM	—	—	14.930	3.410	3.420	550	3/8	1
IPLD750-12	—	12	750-250 MCM	—	—	17.780	3.410	3.420	550	3/8	1



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

POLARIS™
Pre-Insulated Connectors

Heavy Duty Connector Either Side Wire Entry
IPLDH Series



FEATURES

- Connector block has larger width than IPLD Series connector with two pressure screws provided for each cable to ensure the best secure connection possible.
- Designed, built and tested to handle even the most demanding applications from 250 MCM to 750 MCM.
- Insulated with high-dielectric strength plastisol molded for a precise fit.
- Supplied with removable access plugs to allow for cable entry from either side of the connector.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant and UV resistant.
- Will not support combustion.

SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

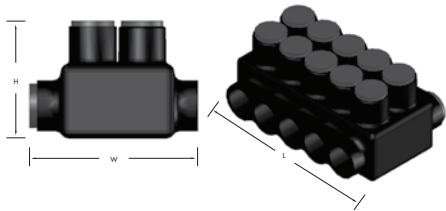


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLDH750-3	3	750 MCM - 1/0 AWG	—	—	4.950	4.460	3.300	550	5/16	2
IPLDH750-4*	4	750 MCM - 1/0 AWG	1178 A	930 A	6.380	4.460	3.300	550	5/16	2
IPLDH750-5	5	750 MCM - 1/0 AWG	—	—	7.800	4.460	3.300	550	5/16	1
IPLDH750-6*	6	750 MCM - 1/0 AWG	1767 A	1395 A	9.230	4.460	3.300	550	5/16	1
IPLDH750-8*	8	750 MCM - 1/0 AWG	2356 A	1860 A	12.080	4.460	3.300	550	5/16	1
IPLDH750-10	10	750 MCM - 1/0 AWG	—	—	14.600	4.460	3.300	550	5/16	1



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.



FEATURES

- Exceptional for use with large wire sizes, especially in tight-fitting spaces, small wire ways and panels.
- The wire holes on the bottom row allow for entry from either side of the connector for even greater versatility.
- Wire entry holes are stacked on top of each other for the ultimate in compact design.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

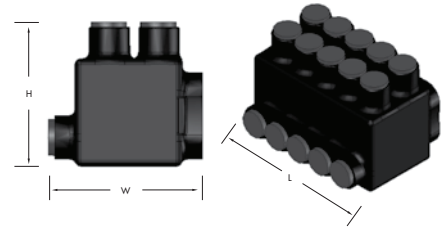


Figure varies by number of wire ports.

CAT. NO.	CERTIFICATION	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLDS350-4*	cULus	4	350 MCM-6 AWG	657 A	514 A	2.550	3.910	3.520	400	5/16	1
IPLDS350-6*	cULus	6	350 MCM-6 AWG	985 A	770 A	3.600	3.910	3.520	400	5/16	1
IPLDS350-8*	cULus	8	350 MCM-6 AWG	1314 A	1028 A	4.650	3.910	3.520	400	5/16	1
IPLDS350-10	cULus	10	350 MCM-6 AWG	—	—	5.700	3.910	3.520	400	5/16	1
IPLDS350-12	cULus	12	350 MCM-6 AWG	—	—	6.750	3.910	3.520	400	5/16	1
IPLDS500-4*	cULus	4	500 MCM-4 AWG	806 A	631 A	2.940	4.710	4.280	450	5/16	1
IPLDS500-6*	cULus	6	500 MCM-4 AWG	1209 A	946 A	4.080	4.710	4.280	450	5/16	1
IPLDS500-8*	cULus	8	500 MCM-4 AWG	1612 A	1262 A	5.230	4.710	4.280	450	5/16	1
IPLDS500-10	cULus	10	500 MCM-4 AWG	—	—	6.380	4.710	4.280	450	5/16	1
IPLDS500-12	cULus	12	500 MCM-4 AWG	—	—	7.520	4.710	4.280	450	5/16	1
IPLDS750-6	—	6	750-250 MCM	—	—	4.950	4.970	4.920	550	3/8	1
IPLDS750-8	—	8	750-250 MCM	—	—	6.380	4.970	4.920	550	3/8	1
IPLDS750-10	—	10	750-250 MCM	—	—	7.800	4.970	4.920	550	3/8	1
IPLDS750-12	—	12	750-250 MCM	—	—	9.230	4.970	4.920	550	3/8	1



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

POLARIS™ **Pre-Insulated Connectors**

Multi-Connector Blocks With Mounting Holes, One Side Wire Entry
 IPLM Series



FEATURES

- Wire entry ports on one side only.
- Mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- IPLM Series connectors are insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping. Abrasion and chemical resistant, UV resistant.
- Will not support combustion.
- Mounting holes will accept a 1/4" bolt.



SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.
- **Mounting:** Mounting holes will accept a 3/16" bolt for #4, 1/4" bolt for 1/0 and 3/0 AWG and a 5/16" bolt for 250 MCM and 750 MCM.

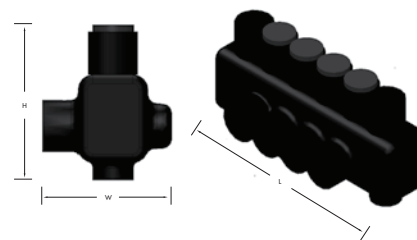


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLM4-3	3	4-14 AWG	2.750	1.240	1.390	45	Slotted	6
IPLM4-4	4	4-14 AWG	3.180	1.240	1.390	45	Slotted	6
IPLM4-5	5	4-14 AWG	3.600	1.240	1.390	45	Slotted	4
IPLM4-6	6	4-14 AWG	4.020	1.240	1.390	45	Slotted	4
IPLM4-7	7	4-14 AWG	4.190	1.240	1.390	45	Slotted	4
IPLM4-10	10	4-14 AWG	5.710	1.240	1.390	45	Slotted	3
IPLM1/0-3	3	1/0-14 AWG	3.460	1.550	1.820	180	3/16	6
IPLM1/0-4	4	1/0-14 AWG	4.110	1.550	1.820	180	3/16	6
IPLM1/0-5	5	1/0-14 AWG	4.760	1.550	1.820	180	3/16	4
IPLM1/0-6	6	1/0-14 AWG	5.410	1.550	1.820	180	3/16	4
IPLM1/0-8	8	1/0-14 AWG	6.710	1.550	1.820	180	3/16	4
IPLM1/0-9	9	1/0-14 AWG	7.520	1.550	1.820	180	3/16	3
IPLM1/0-10	10	1/0-14 AWG	8.010	1.550	1.820	180	3/16	3

POLARIS™

Pre-Insulated Connectors

Multi-Conductor With Mounting Holes, Either Side Wire Entry
IPLMD Series



FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.
- **Mounting:** Mounting holes will accept a 3/16" bolt for #4, 1/4" bolt for 1/0 and 3/0 AWG and a 5/16" bolt for 250 MCM and 750 MCM.

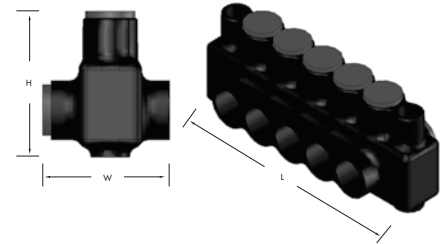


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLMD3/0-3	3	3/0-6 AWG	—	—	3.870	1.830	1.910	250	1/4	3
IPLMD3/0-4	4	3/0-6 AWG	—	—	4.650	1.830	1.910	250	1/4	3
IPLMD3/0-5	5	3/0-6 AWG	—	—	5.430	1.830	1.910	250	1/4	2
IPLMD3/0-6	6	3/0-6 AWG	—	—	6.210	1.830	1.910	250	1/4	2
IPLMD3/0-7	7	3/0-6 AWG	—	—	6.990	1.830	1.910	250	1/4	2
IPLMD3/0-8	8	3/0-6 AWG	—	—	7.770	1.830	1.910	250	1/4	2
IPLMD3/0-9	9	3/0-6 AWG	—	—	8.600	1.830	1.910	250	1/4	2
IPLMD3/0-10	10	3/0-6 AWG	—	—	9.330	1.830	1.910	250	1/4	2
IPLMD250-3	3	250 MCM-6 AWG	—	—	4.420	2.280	2.370	360	5/16	2
IPLMD250-4*	4	250 MCM-6 AWG	527 A	410 A	5.280	2.280	2.370	360	5/16	2
IPLMD250-5	5	250 MCM-6 AWG	—	—	6.140	2.280	2.370	360	5/16	2
IPLMD250-6*	6	250 MCM-6 AWG	790 A	615 A	7.010	2.280	2.370	360	5/16	2
IPLMD250-7	7	250 MCM-6 AWG	—	—	7.820	2.280	2.370	360	5/16	2
IPLMD250-8*	8	250 MCM-6 AWG	1053 A	820 A	8.730	2.280	2.370	360	5/16	2
IPLMD250-10	10	250 MCM-6 AWG	—	—	10.400	2.280	2.370	360	5/16	2
IPLMD250-12	12	250 MCM-6 AWG	—	—	12.130	2.280	2.370	360	5/16	1
IPLMD350-3	3	350 MCM-6 AWG	—	—	5.120	2.410	2.770	400	5/16	2
IPLMD350-4*	4	350 MCM-6 AWG	657 A	514 A	6.170	2.410	2.770	400	5/16	2
IPLMD350-5	5	350 MCM-6 AWG	—	—	7.220	2.410	2.770	400	5/16	2
IPLMD350-6*	6	350 MCM-6 AWG	985 A	770 A	8.270	2.410	2.770	400	5/16	2
IPLMD350-7	7	350 MCM-6 AWG	—	—	9.320	2.410	2.770	400	5/16	2
IPLMD350-8*	8	350 MCM-6 AWG	1314 A	1028 A	10.370	2.410	2.770	400	5/16	2
IPLMD350-10	10	350 MCM-6 AWG	—	—	12.470	2.410	2.770	400	5/16	2
IPLMD350-12	12	350 MCM-6 AWG	—	—	14.570	2.410	2.770	400	5/16	1



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POLARIS™

Pre-Insulated Connectors

Multi-Conductor With Mounting Holes, Either Side Wire Entry
IPLMD Series Cont'd



POLARIS™

FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion, chemical and UV resistant.
- Will not support combustion.



SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.
- **Mounting:** Mounting holes will accept a 1/4" bolt for #4 thru 3/0 AWG and a 5/16" bolt for 250 MCM and 750 MCM.

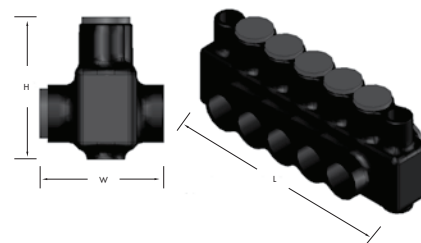


Figure varies by number of wire ports.

CAT. NO.	CERTIFICATION	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
IPLMD500-3	cULus	3	500 MCM-4 AWG	—	—	5.510	2.810	3.030	450	5/16	2
IPLMD500-4*	cULus	4	500 MCM-4 AWG	806 A	631 A	6.650	2.810	3.030	450	5/16	2
IPLMD500-5	cULus	5	500 MCM-4 AWG	—	—	7.800	2.810	3.030	450	5/16	2
IPLMD500-6*	cULus	6	500 MCM-4 AWG	1209 A	946 A	8.940	2.810	3.030	450	5/16	2
IPLMD500-7	cULus	7	500 MCM-4 AWG	—	—	9.710	2.810	3.030	450	5/16	2
IPLMD500-8*	cULus	8	500 MCM-4 AWG	1612 A	1262 A	11.230	2.810	3.030	450	5/16	2
IPLMD500-9	cULus	9	500 MCM-4 AWG	—	—	12.480	2.810	3.030	450	5/16	2
IPLMD500-10	cULus	10	500 MCM-4 AWG	—	—	13.520	2.810	3.030	450	5/16	1
IPLMD500-12	cULus	12	500 MCM-4 AWG	—	—	15.440	2.810	3.030	550	5/16	1
IPLMD600-3	cULus	3	600 MCM-6 AWG	—	—	5.880	2.960	3.150	550	5/16	1
IPLMD600-4*	cULus	4	600 MCM-6 AWG	1035 A	810 A	7.180	2.960	3.150	550	5/16	1
IPLMD600-5	cULus	5	600 MCM-6 AWG	—	—	8.480	2.960	3.150	550	5/16	1
IPLMD600-6*	cULus	6	600 MCM-6 AWG	1554 A	1215 A	9.780	2.960	3.150	550	5/16	1
IPLMD600-8*	cULus	8	600 MCM-6 AWG	2070 A	1620 A	12.380	2.960	3.150	550	5/16	1
IPLMD600-9	cULus	9	600 MCM-6 AWG	—	—	13.610	2.960	3.150	550	5/16	1
IPLMD600-10	cULus	10	600 MCM-6 AWG	—	—	14.980	2.960	3.150	550	5/16	1
IPLMD600-12	cULus	12	600 MCM-6 AWG	—	—	17.200	2.960	3.150	550	5/16	1
IPLMD750-3	—	3	750-250 MCM	—	—	6.320	3.410	3.540	550	5/16	1
IPLMD750-4	—	4	750-250 MCM	—	—	7.750	3.410	3.540	550	5/16	1
IPLMD750-5	—	5	750-250 MCM	—	—	9.180	3.410	3.540	550	5/16	1
IPLMD750-6	—	6	750-250 MCM	—	—	10.600	3.410	3.540	550	5/16	1
IPLMD750-7	—	7	750-250 MCM	—	—	11.650	3.410	3.540	550	5/16	1
IPLMD750-8	—	8	750-250 MCM	—	—	13.450	3.410	3.540	550	5/16	1
IPLMD750-9	—	9	750-250 MCM	—	—	15.050	3.410	3.540	550	5/16	1
IPLMD750-10	—	10	750-250 MCM	—	—	16.300	3.410	3.540	550	5/16	1
IPLMD750-12	—	12	750-250 MCM	—	—	18.780	3.410	3.540	550	5/16	1



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

POLARIS™ EDGE

Pre-Insulated Connectors

Direct Bury Submersible Connectors

ISPB, ISPC Series



FEATURES

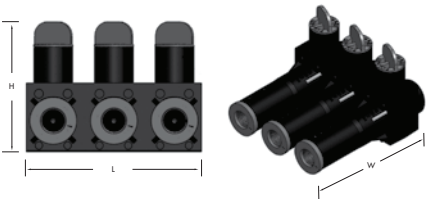
- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors — all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils. and high dielectric strength.
- ISPC connectors (clear) allow for an easier installation.
- Abrasion and chemical resistant.
- ISPB is UV resistant.
- Will not support combustion.



Figure varies by number of wire ports.

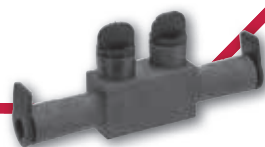
SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A specifications (Dry location).
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **WIRE TYPE:** For use with copper and/or aluminum cables.
Not for fine stranded, flexible wire.
- **Torque Chart:** 37.
- **Installation Instructions:** See page 37 for extra illustrations and detailed installation information.



CAT. NO.	FIG. NO.	NO. OF PORTS	COLOR	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)		STD. CTN. QTY.
ISPB350-3	1	3	Black	350 MCM-12 AWG	3.610	4.190	3.060	360	5/16		1
ISPB350-4	1	4	Black	350 MCM-12 AWG	4.800	4.190	3.060	360	5/16		1
ISPB350-6	1	6	Black	350 MCM-12 AWG	7.180	4.190	3.060	360	5/16		1
ISPC350-3	2	3	Clear	350 MCM-12 AWG	3.610	4.190	3.060	360	5/16		1
ISPC350-4	2	4	Clear	350 MCM-12 AWG	4.800	4.190	3.060	360	5/16		1
ISPC350-6	2	6	Clear	350 MCM-12 AWG	7.180	4.190	3.060	360	5/16		1
ISPB600-3	1	3	Black	600 MCM-12 AWG	4.870	5.460	3.130	500	5/16		1
ISPB600-4	1	4	Black	600 MCM-12 AWG	6.560	5.460	3.130	500	5/16		1
ISPB600-6	1	6	Black	600 MCM-12 AWG	9.940	5.460	3.130	500	5/16		1

POLARIS™ EDGE **Pre-Insulated Connectors** Submersible Connectors ISPB, ISPBO, ISPBS Series



SPECIFICATIONS

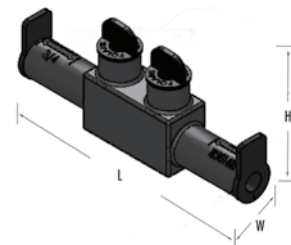
- UL Listed 486D Sealed Wire Connector (Dry location).
- Meets or exceeds ANSI C119.4 Class A specifications.
- **Temperature Rating/Voltage:** AL9CU.
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for copper or aluminum conductors.
- **Installation Instructions:** See page 38 for extra illustrations and detailed installation information.

FEATURES

- Submersible to 6' damp/wet location, direct bury (UL486D).
- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors — all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils. and high dielectric strength.
- Abrasion, chemical and UV resistant.
- Will not support combustion.



Figure varies by number of wire ports.



CAT. NO.	FIG. NO.	NO. OF PORTS	COLOR	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)	STD. CTN. QTY.
ISPB52/0	1	2	Black	2/0-#14	5.050	0.880	2.100	120	3/16	1
ISPB5350	1	2	Black	350-#12	8.830	1.250	3.380	360	5/16	1
ISPB2/0-2	2	2	Black	2/0-#14	1.930	2.650	2.100	120	3/16	1
ISPB2/0-3	2	3	Black	2/0-#14	2.790	2.650	2.100	120	3/16	1
ISPB2/0-4	2	4	Black	2/0-#14	3.650	2.650	2.100	120	3/16	1
ISPB2/0-6	2	6	Black	2/0-#14	5.370	2.650	2.100	120	3/16	1
ISPBO2/0	3	3	Black	2/0-#14	2.790	4.180	2.100	120	3/16	1

POLARIS™
Uninsulated Connectors

Heavy-Duty Uninsulated Either Side Wire Entry
PLH Series



FEATURES

- Connector block is wider than the standard PL Series connector. Two pressure screws provided for each cable to ensure the best connection possible.
- Heavy duty PLH Series connectors are designed to handle the most demanding applications from 750 MCM to 1/0 MCM.
- Plated for corrosion resistance.



SPECIFICATIONS

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

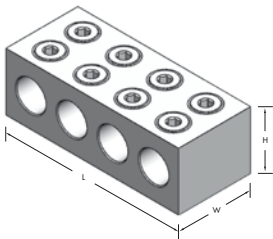


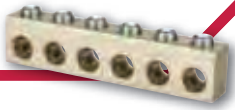
Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX./WRENCH SIZE (IN.)	STD. CTN. QTY.
PLH750-6*	6	750 MCM - 1/0 AWG	1767 A	1395 A	8.850	2.500	2.000	550	5/16	1
PLH750-10	10	750 MCM - 1/0 AWG	2356 A	1860 A	14.550	2.500	2.000	550	5/16	1



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

POLARIS™
Uninsulated Connectors
Uninsulated Multi-Cable Connectors
PL Series



SPECIFICATIONS

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Available in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

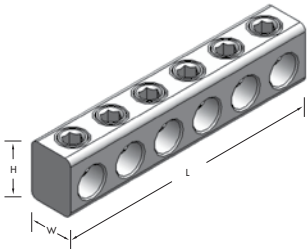


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX/WRENCH SIZE (IN.)		STD. CTN. QTY.
PL4-2	2	4-14 AWG	0.880	0.500	0.630	45	Slotted		12
PL4-3	3	4-14 AWG	1.300	0.500	0.630	45	Slotted		12
PL4-4	4	4-14 AWG	1.730	0.500	0.630	45	Slotted		12
PL4-5	5	4-14 AWG	2.150	0.500	0.630	45	Slotted		6
PL4-6	6	4-14 AWG	2.570	0.500	0.630	45	Slotted		6
PL4-8	8	4-14 AWG	3.410	0.500	0.630	45	Slotted		6
PL4-10	10	4-14 AWG	4.260	0.500	0.630	45	Slotted		4
PL4-14	14	4-14 AWG	5.960	0.500	0.630	45	Slotted		2
PL1/0-2	2	1/0-14 AWG	1.350	0.630	0.880	180	3/16		12
PL1/0-3	3	1/0-14 AWG	2.000	0.630	0.880	180	3/16		12
PL1/0-4	4	1/0-14 AWG	2.650	0.630	0.880	180	3/16		12
PL1/0-5	5	1/0-14 AWG	3.300	0.630	0.880	180	3/16		6
PL1/0-6	6	1/0-14 AWG	3.950	0.630	0.880	180	3/16		6
PL1/0-7	7	1/0-14 AWG	4.610	0.630	0.880	180	3/16		6
PL1/0-8	8	1/0-14 AWG	5.250	0.630	0.880	180	3/16		6
PL1/0-10	10	1/0-14 AWG	6.550	0.630	0.880	180	3/16		4
PL1/0-14	14	1/0-14 AWG	9.150	0.630	0.880	180	3/16		2



SPECIFICATIONS

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Available in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

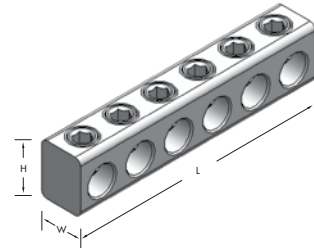
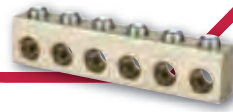


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX./WRENCH SIZE (IN.)	STD. CTN QTY.
PL3/0-3	3	3/0-6 AWG	—	—	2.380	0.690	0.940	250	1/4	6
PL3/0-4	4	3/0-6 AWG	—	—	3.160	0.690	0.940	250	1/4	6
PL3/0-5	5	3/0-6 AWG	—	—	3.940	0.690	0.940	250	1/4	6
PL3/0-6	6	3/0-6 AWG	—	—	4.720	0.690	0.940	250	1/4	6
PL3/0-7	7	3/0-6 AWG	—	—	5.490	0.690	0.940	250	1/4	6
PL3/0-8	8	3/0-6 AWG	—	—	6.280	0.690	0.940	250	1/4	6
PL3/0-9	9	3/0-6 AWG	—	—	7.050	0.690	0.940	250	1/4	4
PL3/0-10	10	3/0-6 AWG	—	—	7.840	0.690	0.940	250	1/4	4
PL3/0-12	12	3/0-6 AWG	—	—	9.400	0.690	0.940	250	1/4	3
PL3/0-14	14	3/0-6 AWG	—	—	10.960	0.690	0.940	250	1/4	2
PL250-2	2	250 MCM-6 AWG	—	—	1.820	0.880	1.130	360	5/16	6
PL250-3	3	250 MCM-6 AWG	—	—	2.680	0.880	1.130	360	5/16	6
PL250-4*	4	250 MCM-6 AWG	527 A	410 A	3.550	0.880	1.130	360	5/16	6
PL250-5	5	250 MCM-6 AWG	—	—	4.410	0.880	1.130	360	5/16	6
PL250-6*	6	250 MCM-6 AWG	790 A	615 A	5.270	0.880	1.130	360	5/16	6
PL250-7	7	250 MCM-6 AWG	—	—	6.140	0.880	1.130	360	5/16	6
PL250-8*	8	250 MCM-6 AWG	1053 A	820 A	6.990	0.880	1.130	360	5/16	6



*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

POLARIS™**Uninsulated Connectors****Uninsulated Multi-Cable Connectors****PL Series Cont'd****SPECIFICATIONS**

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Available in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

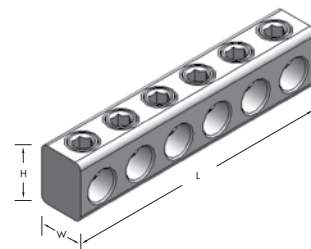


Figure varies by number of wire ports.

CAT. NO.	NO. OF PORTS	WIRE RANGE	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	MAX. TORQUE VALUE (IN./LBS.)	HEX./WRENCH SIZE (IN.)	STD. CTN. QTY.
PL250-9	9	250 MCM-6 AWG	—	—	7.860	0.880	1.130	360	5/16	12
PL250-10	10	250 MCM-6 AWG	—	—	8.720	0.880	1.130	360	5/16	12
PL250-11	11	250 MCM-6 AWG	—	—	9.580	0.880	1.130	360	5/16	12
PL250-12	12	250 MCM-6 AWG	—	—	10.450	0.880	1.130	360	5/16	6
PL350-3	3	350 MCM-6 AWG	—	—	3.220	1.000	1.440	400	5/16	6
PL350-4*	4	350 MCM-6 AWG	657 A	514 A	4.270	1.000	1.440	400	5/16	6
PL350-6*	6	350 MCM-6 AWG	985 A	770 A	6.370	1.000	1.440	400	5/16	4
PL350-8*	8	350 MCM-6 AWG	1314 A	1028 A	8.470	1.000	1.440	400	5/16	2
PL350-10	10	350 MCM-6 AWG	—	—	10.570	1.000	1.440	400	5/16	12
PL500-4*	4	500 MCM-4 AWG	806 A	631 A	4.860	1.130	1.630	450	5/16	12
PL500-6*	6	500 MCM-4 AWG	1209 A	946 A	7.145	1.130	1.630	450	5/16	12
PL500-7	7	500 MCM-4 AWG	—	—	8.280	1.130	1.630	450	5/16	6
PL500-8*	8	500 MCM-4 AWG	1612 A	1262 A	9.440	1.130	1.630	450	5/16	6
PL500-9	9	500 MCM-4 AWG	—	—	10.570	1.130	1.630	450	5/16	6
PL500-10	10	500 MCM-4 AWG	—	—	11.730	1.130	1.630	450	5/16	6
PL750-3	3	750-250 MCM	—	—	4.570	1.440	2.000	550	3/8	4
PL750-4	4	750-250 MCM	—	—	6.000	1.440	2.000	550	3/8	2
PL750-6	6	750-250 MCM	—	—	8.850	1.440	2.000	550	3/8	2
PL750-8	8	750-250 MCM	—	—	11.700	1.440	2.000	550	3/8	1



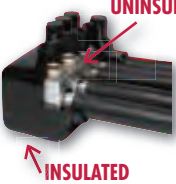
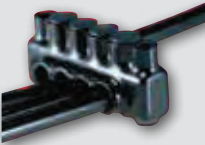
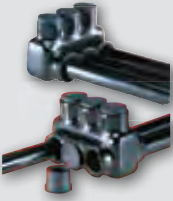
*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

POLARIS™ CUSTOM PRE-INSULATED CONNECTOR

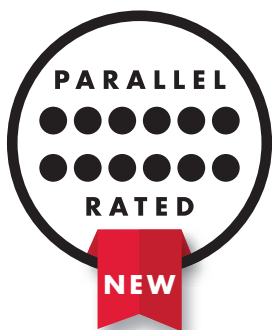
- Let us custom engineer and fabricate a UL Listed insulated block system for your next project. Each connector is made with exact hole size and number for the cable runs being used. You may choose to order a customized version of our IPL Series or add one or more of the options listed below.
- The combinations we can create and produce are almost unlimited. Connector size can be up to 22" long also available without insulation. We custom design and machine your connector from your specifications and our engineering and production data.

BUILD THE CATALOG NUMBER

Create a custom catalog number, follow the checklist and build your catalog number as you go. Call our sales staff at 800-321-5847 with any questions.

	Insulated/ Uninsulated	Blocks are covered with a unique plastisol insulation but you are able to have uninsulated.	☐ INSULATED BLOCK USE "I"	☐ UNINSULATED BLOCK USE "U"																				
	Mounting	Mounting holes are provided in each end of the connector block and are isolated from the block with insulated sleeves.	☐ YES ADD "M"	☐ NO LEAVE BLANK																				
<table border="1"> <thead> <tr> <th>WIRE RANGE</th> <th>LETTER DESIGNATION</th> </tr> </thead> <tbody> <tr><td>4-14</td><td>A</td></tr> <tr><td>1/0-14</td><td>B</td></tr> <tr><td>3/0-6</td><td>C</td></tr> <tr><td>250-6</td><td>D</td></tr> <tr><td>350-6</td><td>E</td></tr> <tr><td>500-4</td><td>F</td></tr> <tr><td>600</td><td>J</td></tr> <tr><td>750-250</td><td>G</td></tr> <tr><td>1000-500</td><td>H</td></tr> </tbody> </table>	WIRE RANGE	LETTER DESIGNATION	4-14	A	1/0-14	B	3/0-6	C	250-6	D	350-6	E	500-4	F	600	J	750-250	G	1000-500	H	Ports / Wire Size	Ports: How many ports will you need? ____ (space for #1) Wire Size: Choose the letter indicating your wire size from the chart to the left: ____	Single Wire Size: A. 4 ports 500-4MCM = 4F Add to the part number: 4F	Multiple: A. 4 ports 500-4MCM = 4F B. 6 ports 1/0-14 = 6B C. 2 ports 2250MCM = 2D Add to the part number: 4F6B2D
WIRE RANGE	LETTER DESIGNATION																							
4-14	A																							
1/0-14	B																							
3/0-6	C																							
250-6	D																							
350-6	E																							
500-4	F																							
600	J																							
750-250	G																							
1000-500	H																							
	Same/ Opposite Side	Cable can enter either side of the connector block, based on your requirements. This eliminates having to bend the secondary cable around the connector.	☐ YES ADD "O"	☐ NO LEAVE BLANK																				
	Stacked	Wire entry holes on top of the other, allowing the block to be shorter, in length and is ideal for use in small wireways or panels.	☐ YES ADD "S"	☐ NO LEAVE BLANK																				

POLARIS™ BLACK PARALLEL RATED CONNECTORS



NSi Industries Polaris™ Pre-Insulated Connectors have created another “Industry First” by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for copper and aluminum parallel conductors. **Polaris™ Parallel Rated** Connectors provide safety and NEC compliance when installing parallel runs.

Available in 2, 3 & 4 Parallels (4, 6 & 8 hole) in wire ranges of 250MCM-6AWG, 350MCM-6AWG, 500MCM-4AWG, 600MCM-6AWG and 750MCM-1/0AWG.



POLARIS™ Black Parallel Rated Products

DESCRIPTION/ WIRE RANGE	IPL SERIES	IPLD SERIES	IPLMD SERIES	IPLMDH SERIES	IPLDH SERIES	IPLDS SERIES	PL SERIES (UN-INSULATED)	PLM SERIES (UN-INSULATED)	PLH SERIES (UN-INSULATED)	COPPER CONDUCTOR MAX. AMPS	ALUMINUM CONDUCTOR MAX. AMPS
250 MCM - 6 AWG	IPL250-4	IPLD250-4	IPLMD250-4*	CFPD*	CFPD*	IPLDS250-4*	PL250-4	PLM250-4*	CFPD*	527 A	410 A
	IPL250-6	IPLD250-6	IPLMD250-6	CFPD*	CFPD*	CFPD*	PL250-6	PLM250-6*	CFPD*	790 A	615 A
	IPL250-8	IPLD250-8	IPLMD250-8	CFPD*	CFPD*	CFPD*	PL250-8	PLM250-8*	CFPD*	1053 A	820 A
350 MCM - 6 AWG	IPL350-4	IPLD350-4	IPLMD350-4	CFPD*	CFPD*	IPLDS350-4	PL350-4	CFPD*	CFPD*	657 A	514 A
	IPL350-6	IPLD350-6	IPLMD350-6	CFPD*	CFPD*	IPLDS350-6	PL350-6	PLM350-6*	CFPD*	985 A	770 A
	IPL350-8	IPLD350-8	IPLMD350-8	CFPD*	CFPD*	IPLDS350-8	PL350-8	PLM350-8*	CFPD*	1314 A	1028 A
500 MCM - 4 AWG	IPL500-4	IPLD500-4	IPLMD500-4	CFPD*	CFPD*	IPLDS500-4	PL500-4	CFPD*	CFPD*	806 A	631 A
	IPL500-6	IPLD500-6	IPLMD500-6	CFPD*	CFPD*	IPLDS500-6	PL500-6	CFPD*	CFPD*	1209 A	946 A
	IPL500-8	IPLD500-8	IPLMD500-8	CFPD*	CFPD*	IPLDS500-8	PL500-8	CFPD*	CFPD*	1612 A	1262 A
600 MCM - 6 AWG	IPL600-4	IPLD600-4	IPLMD600-4	CFPD*	CFPD*	CFPD*	CFPD*	CFPD*	CFPD*	1035 A	810 A
	IPL600-6	IPLD600-6	IPLMD600-6	CFPD*	CFPD*	CFPD*	CFPD*	CFPD*	CFPD*	1554 A	1215 A
	CFPD*	IPLD600-8	IPLMD600-8	CFPD*	CFPD*	CFPD*	CFPD*	CFPD*	CFPD*	2070 A	1620 A
750 MCM - 1/0	CFPD*	CFPD*	CFPD*	IPLMDH750-4*	IPLDH750-4	CFPD*	CFPD*	CFPD*	PLH750-4*	1178 A	930 A
	CFPD*	CFPD*	CFPD*	CFPD*	IPLDH750-6	CFPD*	CFPD*	CFPD*	PLH750-6	1767 A	1395 A
	CFPD*	CFPD*	CFPD*	IPLMDH750-8*	IPLDH750-8	CFPD*	CFPD*	CFPD*	PLH750-8*	2356 A	1860 A

*CFPD = Call Factory for Price and Delivery.

UL LISTED TORQUE VALUES PER CONDUCTOR SIZE (IN/LBS)

CONNECTOR WIRE SIZE/ PORT SIZE	#10 - #14 AWG	#8 AWG	#4 - #6 AWG	#3 - #1 AWG	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	250 MCM	350 MCM	400 MCM	500 MCM	750-600 MCM	800-1000 MCM
#4 AWG - #14 AWG	35	40	45	—	—	—	—	—	—	—	—	—	—	—
1/0 AWG - #14 AWG	35	75	110	150	180	—	—	—	—	—	—	—	—	—
3/0 AWG - #6 AWG	—	—	110	150	180	180	250	—	—	—	—	—	—	—
250 MCM - 6 AWG	—	—	110	150	180	180	250	250	360	—	—	—	—	—
350 MCM - 6 AWG	—	—	110	150	180	180	250	250	360	400	—	—	—	—
500 MCM - 4 AWG	—	—	110	150	180	180	250	250	360	400	425	450	—	—
600 MCM - 6 AWG	—	—	110	150	180	180	250	250	360	400	425	450	550	—
750 MCM - 1/0 AWG	—	—	—	—	550	550	550	550	550	550	550	550	550	550

POLARIS™ TORQUE, STRIP & ACCESSORIES CHARTS

UL LISTED TORQUE VALUES PER CONDUCTOR SIZE (IN/LBS)

CONDUCTOR SIZE

CONNECTOR WIRESIZE/PORT SIZE	#10 - #14 AWG	#8 AWG	#4 - #6 AWG	#3 - #1 AWG	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	250 MCM	350 MCM	400 MCM	500 MCM	750-600 MCM	800-1000 MCM
#4 AWG - #14 AWG	35	40	45											
1/0 AWG - #14 AWG	35	75	110	150	180									
3/0 AWG - #6 AWG			110	150	180	180	250							
250 MCM - 6 AWG			110	150	180	180	250	250	360					
350 MCM - 6 AWG			110	150	180	180	250	250	360	400				
500 MCM - 4 AWG			110	150	180	180	250	250	360	400	425	450		
600 MCM - 6 AWG			110	150	180	180	250	250	360	400	425	450	550	
750 MCM - 1/0 AWG					550	550	550	550	550	550	550	550	550	550

STRIP CHART FOR STANDARD CONNECTORS

CONNECTOR SIZE	STRIP LENGTH	BOIT DIA. FOR MOUNTING
750 H	3.250	5/16
ISRH 750	2.312	5/16
750 MCM	2.000	5/16
600 MCM	1.625	5/16
500 MCM	1.625	5/16
350 MCM	1.375	5/16
250 MCM	1.250	5/16
ISR 250	1.125	5/16
3/0 AWG	1.000	1/4
1/0 AWG	0.875	1/4
4 AWG	0.689	3/16

ACCESSORIES

CAT. NO.	UPC CODE	DESCRIPTION	CONNECTION SIZE	STD. CNT. QTY.
SP-4	74908	Set-screw covers	4 AWG	15
SP1/0	78907	Set-screw covers	1/0 AWG	15
SP3/0	78910	Set-screw covers	3/0 AWG	15
SP250	78909	Set-screw covers	250 MCM	12
SP350	78911	Set-screw covers	350 MCM	10
SP500	78912	Set-screw covers	500 MCM	8
SP600	78913	Set-screw covers	600 MCM	6
SP750	78914	Set-screw covers	750 MCM	6
CP3/0	95215	Cable port plugs	3/0 AWG	15
CP250	92216	Cable port plugs	250 MCM	10
CP350	92217	Cable port plugs	350 MCM	8
CP500	95218	Cable port plugs	500 MCM	6
CP600	78942	Cable port plugs	600 MCM	4
CP750	95219	Cable port plugs	750 MCM	4

POLARIS GREY™ INSTALLATION INSTRUCTIONS

Wire insulation must be stripped in accordance with the Standard Connector Strip Length Chart below. The wire insulation on a properly installed connector must be inside the conductor port no less than 3/8 inch. For UL Listed connection pressure screws MUST be secured at the torque value given on the Torque Charts corresponding to the connector, wire size and classification shown on the reverse side. The UL listing is for stranded wire only, CU 600 Volts maximum for building wiring and 1000 volts maximum for signs or luminaries. The connector and insulation temperature rating is 90°C.

TORQUE CHART FOR POLARIS GREY™ CONNECTORS IN INCH POUNDS

BUILDING WIRE CLASS B, C, D WIRE SIZE AWG

CONNECTOR	3/0	2/0	1/0	#1	#2	#3	#4	#6	#8	#10	#12	#14
3/0	250	180	180	120	120	120	110					
#1				150	150	150	110	110	75	45		
#6								45	45	45	45	45

FLEXIBLE WIRE CLASS K, M, I WIRE SIZE AWG

CONNECTOR	3/0	2/0	1/0	#1	#2	#3	#4	#6	#8	#10	#12	#14
3/0		180	180	120	120							
#1					150	150	110	110	75	45		
#6								45	45	45	45	45

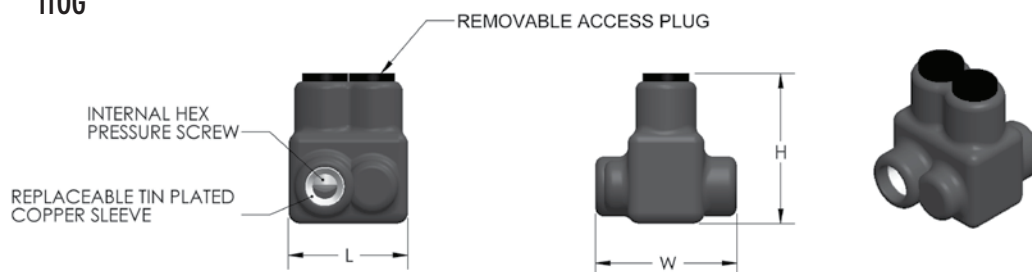
STRIP LENGTH CHART

CONNECTOR SIZE	STRIP LENGTH (IN)
3/0	1
#1	7/8
#6	11/16

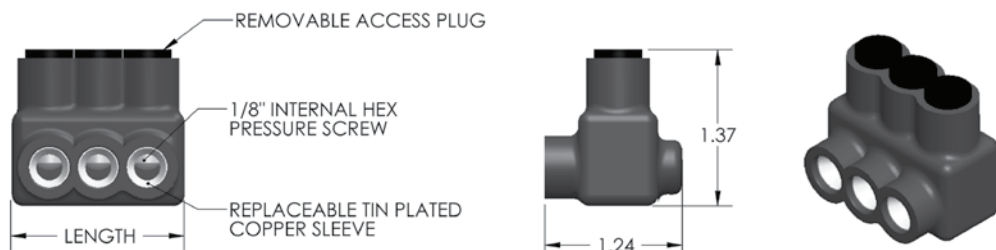
PROTECT THOSE FINE-STRANDED WIRES WITH POLARIS GREY™.

Here's our secret: Polaris Grey™ comes with an integral sleeve which protects the fine strands and helps the conductor maintain its shape during the tightening process. The sleeve eliminates breakage of the strands and reduces stress on the conductor and therefore the potential for hot-spots. Replacement sleeves can be purchased separately. Specially designed for connecting and terminating fine-stranded, flexible copper conductors. Polaris Grey™ combines the reliability and safety of a compression connection with the ease, affordability and flexibility of a mechanical connection. Motor replacement is now really easy. Simply strip the cable, insert it into Polaris Grey™, tighten the hex head screw, replace the cap.

ITOG



IPLG1



POLARIS™ EDGE ISPB/ISPC INSTALLATION INSTRUCTIONS

1. Remove cable insulation 1-1/8" from end of conductor (insulation strip length imprinted on conductor port).
2. Wire brush bare conductor.
3. Remove conductor sleeve from connector.
4. Select and cutoff the correct step end at tip of arrow on the sleeve. Make sure to cut sleeve straight across the end of step. Discard sleeve for 300 and 350 MCM.
5. Reinsert the conductor sleeve (rocket) if required.
6. Remove set-screw access plug and loosen set-screw to allow cable insertion.
7. Insert conductor into the cable outlet or rocket until conductor hits the back of the connector and tighten set-screw to the recommended torque (Table 1).
8. Replace set-screw access plug.

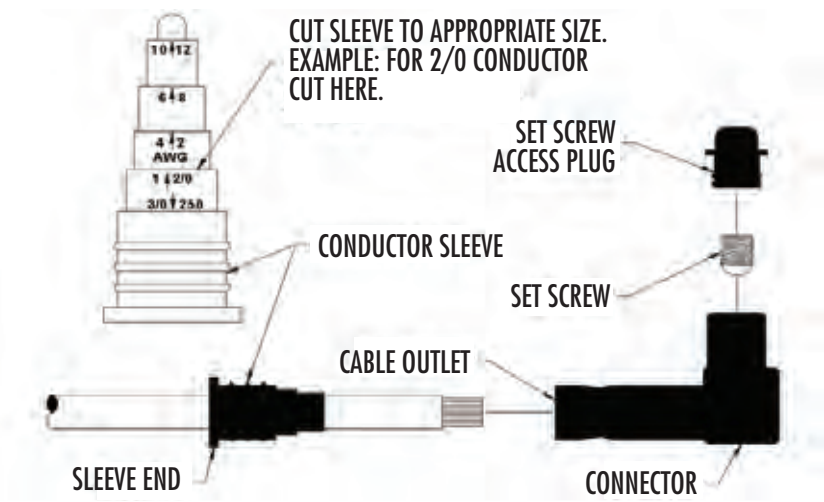
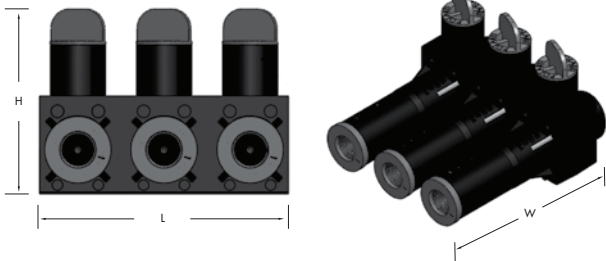
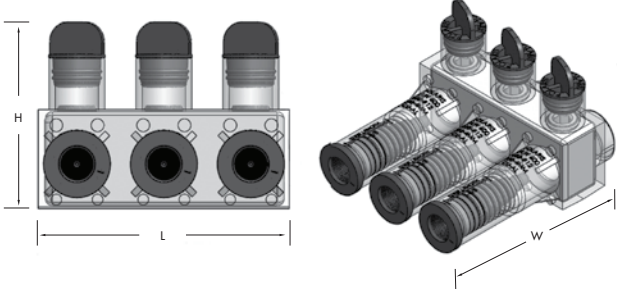


TABLE 1	
CONDUCTOR RANGE	INCH-POUNDS
#12 - #6	135
#4 - 3/0	210
4/0 - 350	360
400 - 600	500

ISPB



ISPC



POLARIS™ EDGE ISPB/ISPBO/ISPBS INSTALLATION INSTRUCTIONS

- 1. Conductor must have insulation acceptable for wet or damp locations.
- 2. Wipe off any foreign material (dirt, water, oil, etc.) on insulation of conductor to be spliced.
- 3. Mark the conductor insulation 3/4" and 2-1/4" from the end. Insulation strip length imprinted on connector.
- 4. Remove the conductor insulation up to the 3/4" strip length, be sure not to "score" or "nick" conductor (bare wire). Tip - For wire sizes #1 and larger bevel edge of insulation.
- 5. Wire brush bare conductor.
- 6. Remove conductor sleeve (rocket) from connector. Discard sleeve for 1/0-2/0 AWG (if discarded go to step 9).
- 7. Select and cutoff the step appropriate for size indicated on the sleeve. Make sure to cut sleeve straight across the end of teh appropriate size step.
- 8. Reinsert the conductor sleeve (Rocket).
- 9. Remove set-screw access plug and loosen set-screw to allow conductor insertion.
- 10. For easier assembly lubricate the exterior of conductor insulation with the included dielectric silicone grease.
- 11. Insert conductor into the cable outlet or rocket until the 2-1/4" reference mark is even with end of cable outlet. The end of the conductor should hit back of connector.
- 12. Tighten the pressure screws to the recommended torque below. (Table 1)
- 13. Replace set-screw access plug.

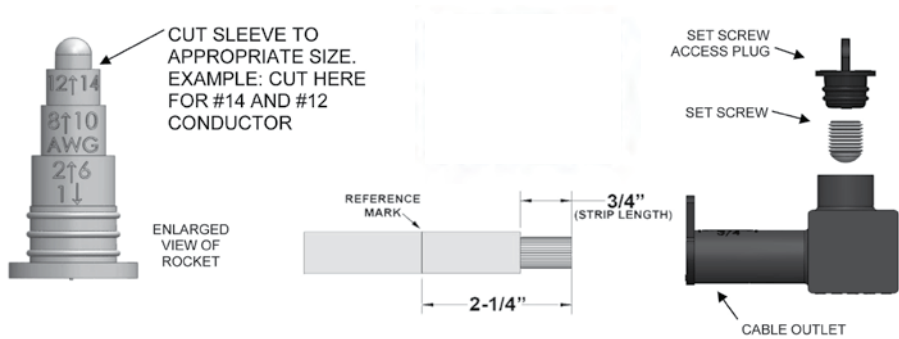
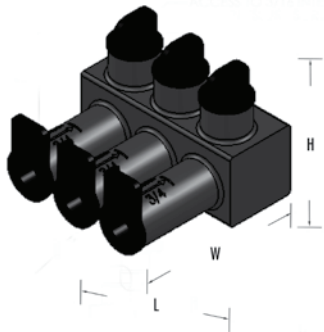
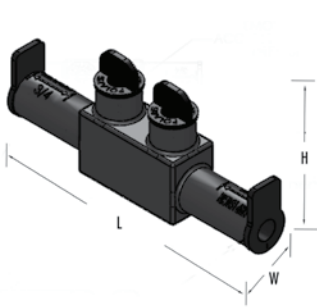


TABLE 1	
CONDUCTOR RANGE	INCH-POUNDS
#10 - #14	35
#8	75
2/0#6	120

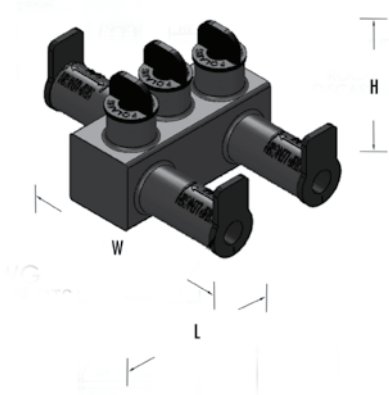
ISPB



ISPBS



ISPBO





CONNECTORS



CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Single & Double Lugs
T, 2-T Series

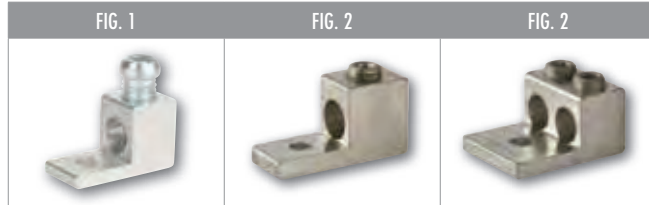
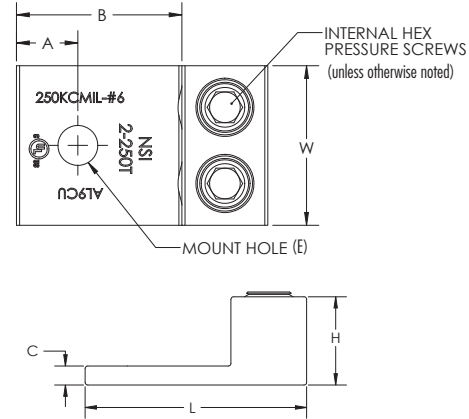


SPECIFICATIONS

- cULus Listed Wire Connector.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

FEATURES

- Versatile and reusable set-screw connectors made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.



CAT. NO.	FIG. NO.	WIRE RANGE	MTG. BOLT SIZE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. HOLE DIA.(E) (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	TANG LENGTH (A) (IN.)	TANG LENGTH (B) (IN.)	TANG THICKNESS (C) (IN.)	STD. CTN. QTY.
6TB	1	4-14 AWG	1/4	45	Slotted/Square	0.209	0.836	0.325	0.500	0.234	0.439	0.100	100
4T	1	4-14 AWG	1/4	45	Slotted	0.265	1.060	0.500	0.500	0.250	0.690	0.094	100
2T	1	2-14 AWG	1/4	50	Slotted	0.265	1.160	0.500	0.550	0.310	0.690	0.100	100
0T	2	1/0-14 AWG	1/4	120	3/16	0.265	1.470	0.630	0.790	0.440	0.850	0.190	50
2-0T	3	1/0-14 AWG	1/4	120	3/16	0.265	1.470	1.130	0.790	0.440	0.850	0.190	50
2/0T	2	2/0-14 AWG	1/4	120	3/16	0.265	1.470	0.630	0.790	0.440	0.850	0.190	50
2-2/0T	3	(2) 2/0-14 AWG	1/4	120	3/16	0.265	1.470	1.250	0.790	0.440	0.850	0.190	50
3/0T	2	3/0-6 AWG	1/4	250	3/16	0.265	1.875	0.700	0.890	0.500	0.850	0.145	50
250T	2	250 MCM-6 AWG	5/16	330	5/16	0.328	2.000	0.880	1.020	0.470	1.130	0.220	24
2-250T	3	(2) 250 MCM-6 AWG	5/16	330	5/16	0.328	2.560	1.630	1.020	0.630	1.690	0.220	10
300T	2	300 MCM - 6 AWG	5/16	330	5/16	0.328	2.000	0.880	1.130	0.500	1.000	0.250	24
350T	2	350 MCM-6 AWG	3/8	400	5/16	0.406	2.250	0.990	1.130	0.500	1.250	0.250	20
2-350T	3	(2) 350 MCM-6 AWG	3/8	400	5/16	0.406	2.880	1.920	1.130	0.630	1.880	0.250	8
500T	2	500 MCM - 4 AWG	3/8	550	3/8	0.406	2.750	1.200	1.410	0.630	1.630	0.310	6
600T	2	600 MCM-2 AWG	3/8	550	3/8	0.406	3.180	1.380	1.510	0.630	1.930	0.380	6
2-600T	3	(2) 600 MCM-2 AWG	1/2	550	3/8	0.531	3.180	2.410	1.510	0.630	1.930	0.380	4
800T	2	800-300 MCM	1/2	550	1/2	0.531	3.250	1.440	1.690	0.630	1.880	0.440	6
2-800T	3	(2) 800-300 MCM	1/2	550	1/2	0.531	3.250	2.750	1.690	0.880	1.880	0.440	2
1000T	2	1000-350 MCM	1/2	600	9/16	0.531	3.250	1.690	1.880	0.750	1.750	0.440	6
2-1000T	3	(2) 1000-350 MCM	1/2	600	9/16	0.531	3.250	3.190	1.880	0.880	1.750	0.440	2

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Panelboard Lugs

L Series

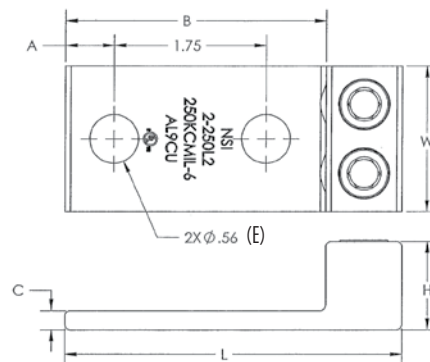
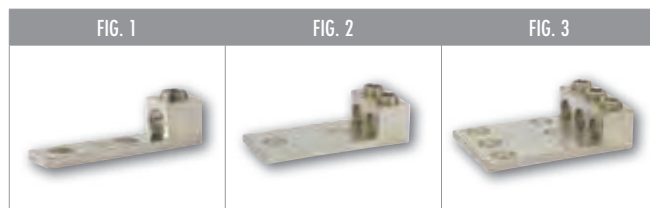


SPECIFICATIONS

- cULus Listed Wire Connector.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

FEATURES

- Panelboard style for multi-conductor with NEMA mounting hole spacing for turn-prevent and secureness.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- All hole spacing is NEMA standard of 1.750".



CAT. NO.	FIG. NO.	WIRE RANGE	MTG. BOLT SIZE (IN.)	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. HOLE DIA. (E) (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	TANG LENGTH (A) (IN.)	TANG LENGTH (B) (IN.)	TANG THICKNESS (C) (IN.)	STD. CTN. QTY.
250L2	1	250 MCM-6 AWG	1/2	330	5/16	0.560	4.310	0.880	1.380	0.560	3.090	0.310	15
2-250L2	2	(2) 250 MCM-6 AWG	1/2	330	5/16	0.560	3.880	1.690	1.020	0.560	3.010	0.220	6
3-250L2/L4	3	(3) 250 MCM-6 AWG	1/2	330	5/16	0.560	3.880	2.500	1.020	0.560	3.010	0.220	3
350L2	1	350 MCM-6 AWG	1/2	400	5/16	0.560	4.310	0.990	1.380	0.630	3.090	0.310	8
2-350L2	2	(2) 350 MCM-6 AWG	1/2	400	5/16	0.560	4.250	1.920	1.130	0.630	3.250	0.250	4
3-350L2/L4	3	(3) 350 MCM-6 AWG	1/2	400	5/16	0.560	4.250	2.920	1.130	0.630	3.250	0.250	2
600L2	1	600 MCM-2 AWG	1/2	550	3/8	0.560	4.650	1.380	1.510	0.630	3.400	0.380	4
2-600L2	2	(2) 600 MCM-2 AWG	1/2	550	3/8	0.560	4.650	2.406	1.510	0.630	3.400	0.380	3
3-600L2/L4	3	(3) 600 MCM-2 AWG	1/2	550	3/8	0.560	4.650	3.930	1.510	0.630	3.400	0.380	2
800L2	1	800-350 MCM	1/2	550	1/2	0.560	4.750	1.440	1.690	0.630	3.380	0.440	4
2-800L2	2	(2) 800-350 MCM	1/2	550	1/2	0.560	4.750	2.750	1.690	0.630	3.380	0.440	2
3-800L2/L4	3	(3) 800-350 MCM	1/2	550	1/2	0.560	4.750	4.060	1.690	0.630	3.380	0.440	2
1000L2	1	1000-500 MCM	1/2	600	9/16	0.560	4.940	1.690	1.880	0.630	3.440	0.440	4
2-1000L2	2	(2) 1000-500 MCM	1/2	600	1/2	0.560	4.940	3.190	1.880	0.630	3.440	0.440	2
3-1000L2/L4	3	(3) 1000-500 MCM	1/2	600	9/16	0.560	4.940	4.690	1.880	0.630	3.440	0.440	2

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Panelboard Lugs
L4, LL4, LL2 Series

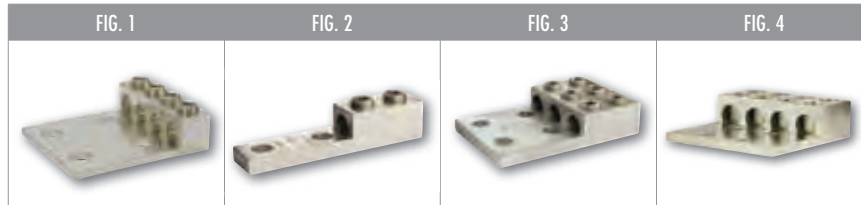
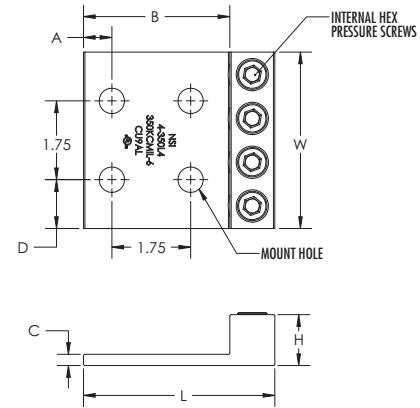


SPECIFICATIONS

- UL Listed for Wire Connector E155027.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

FEATURES

- Large size set-screw connectors with multiple mounting, NEMA spaced holes for a secure, turn-prevent connection.
- Made of 6061T-6 aluminum alloy.
- Tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- All hole spacing is NEMA standard of 1.758".



CAT. NO.	FIG. NO.	WIRE RANGE	MTG. BOLT SIZE (IN.)	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. HOLE DIA. (E) (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	END OF CONN. TO CTR. HOLE (A) (IN.)	TANG LENGTH (B) (IN.)	TANG THICKNESS (C) (IN.)	STD. CTN. QTY.
4-250L4	1	250 MCM-6 AWG	1/2	330	5/16	0.560	3.880	3.300	1.020	0.560	3.010	0.220	3
4-350L4	1	350 MCM-6 AWG	1/2	400	5/16	0.560	4.250	3.920	1.130	0.630	3.250	0.250	2
4-600L4	1	600 MCM-2 AWG	1/2	550	3/8	0.560	4.650	5.000	1.510	0.630	3.400	0.380	2
600LL2	2	600 MCM-2 AWG	1/2	550	3/8	0.560	5.500	1.380	1.510	0.630	3.250	0.380	4
3-600LL4	3	600 MCM-2 AWG	1/2	550	3/8	0.560	5.500	3.930	1.510	0.630	3.250	0.380	2
4-600LL4	4	600 MCM-2 AWG	1/2	550	3/8	0.560	5.500	5.000	1.510	0.630	3.250	0.380	2
4-800L4	1	800-350 MCM	1/2	550	1/2	0.560	4.750	5.380	1.690	0.630	3.380	0.440	2
800LL2	2	800-350 MCM	1/2	550	1/2	0.560	5.750	1.440	1.690	0.630	3.440	0.440	4
3-800LL4	3	800-350 MCM	1/2	550	1/2	0.560	5.750	4.060	1.690	0.630	3.380	0.440	2
4-800LL4	4	800-350 MCM	1/2	550	1/2	0.560	5.750	5.380	1.690	0.630	3.440	0.440	2
4-1000L4	1	1000-500 MCM	1/2	600	9/16	0.560	4.940	6.190	1.880	0.630	3.440	0.440	2
1000LL2	2	1000-500 MCM	1/2	600	9/16	0.560	6.190	1.690	1.880	0.630	3.630	0.440	4
3-1000LL4	3	1000-500 MCM	1/2	600	9/16	0.560	6.190	4.690	1.880	0.630	3.440	0.440	2
4-1000LL4	4	1000-500 MCM	1/2	600	9/16	0.560	6.180	6.190	1.880	0.630	3.630	0.440	2
1500LL2 (Not UL/CSA)	2	1500-1000 MCM	1/2	—	9/16	0.560	6.625	2.000	1.975	0.650	3.175	0.750	4

CONNECTORS
Mechanical Connectors

Aluminum, Dual Rated, Stacked Lugs
T2 Series

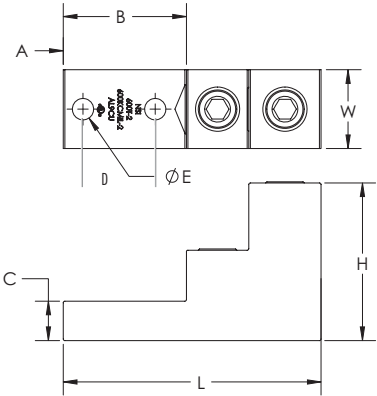
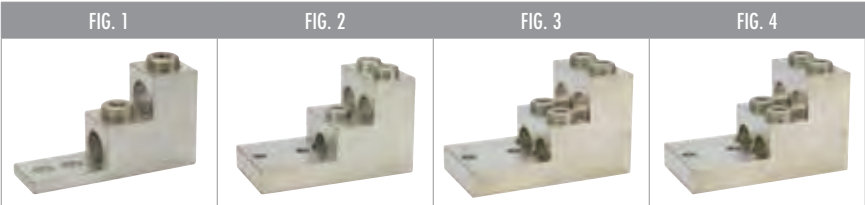


FEATURES

- Large size set-screw connectors with wire holes stacked on top of each other to minimize the width of the connector.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

SPECIFICATIONS

- UL Listed for Wire Connector E155027.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).



CAT. NO.	FIG. NO.	WIRE RANGE	MTG. BOLT SPACING (D)	MTG. BOLT SIZE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. HOLE DIA. (E) (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	END OF CONN. TO CTR. HOLE (A) (IN.)	TANG LENGTH (B) (IN.)	TANG THICKNESS (C) (IN.)	STD. CTN. QTY.
300T-2	1	(2) 300 MCM-6 AWG	—	5/16"	330	5/16	0.330	3.000	1.000	2.000	0.470	1.000	0.310	10
350T-2	2	(2) 350 MCM-6 AWG	0.600	5/16"	400	5/16	0.330	3.560	1.060	2.000	0.470	1.560	0.250	10
600T-2	2	(2) 600 MCM-2 AWG	1.380	3/8	550	3/8	0.410	4.910	1.500	3.000	0.380	2.340	0.750	2
600T-3	3	(3) 600 MCM-2 AWG	1.380	3/8	550	3/8	0.410	4.910	2.500	3.000	0.380	2.340	0.750	2
600T-4	4	(4) 600 MCM-2 AWG	1.380	3/8	550	3/8	0.410	4.910	2.500	3.000	0.380	2.340	0.750	2
800T-2	2	(2) 800-300 MCM	1.380	3/8	550	3/8	0.410	4.910	1.500	3.000	0.380	2.340	0.750	2
800T-3	3	(3) 800-300 MCM	1.380	3/8	550	1/2	0.410	4.910	2.630	3.000	0.380	2.340	0.750	2
800T-4	4	(4) 800-300 MCM	1.380	3/8	550	1/2	0.410	4.910	2.630	3.000	0.380	2.340	0.750	2

CONNECTORS
Mechanical Connectors

Aluminum, Dual Rated, Splicer & Reducer
SR Series

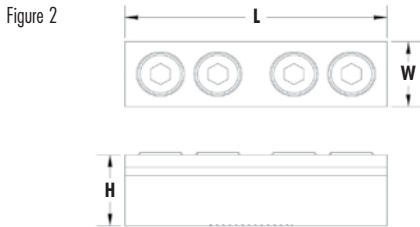
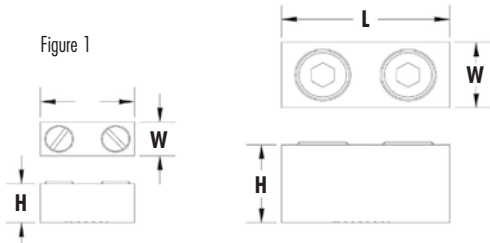
FEATURES

- For splicing two copper or aluminum wires of equal or different sizes.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.



SPECIFICATIONS

- UL Listed for Wire Connector.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).



CAT. NO.	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)		LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
2SR	1	2-14 AWG	50	Slotted		1.594	0.443	0.550	50
1/0SR	1	1/0-14 AWG	120	Slotted		1.500	0.530	0.630	25
4/0SR	1	4/0-6 AWG	250	5/16		2.310	0.812	1.000	24
250SR	2	250 MCM-6 AWG	330	5/16		4.094	0.812	1.000	10
350SR	2	350 MCM-6 AWG	400	3/8		4.190	1.130	1.190	8
500SR	2	500 MCM-3/0 AWG	550	3/8		5.000	1.380	1.500	3
750SR	2	750-250 MCM	550	3/8		6.250	1.630	1.750	3

CONNECTORS
Mechanical Connectors

Aluminum, Dual Rated, Single & Double "Turn-Prevent"
TP Series

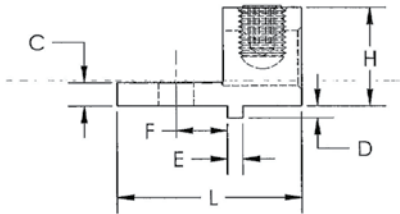
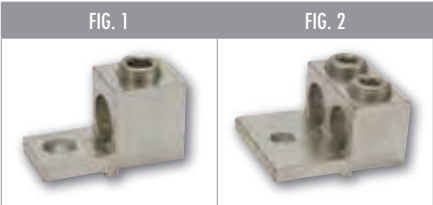
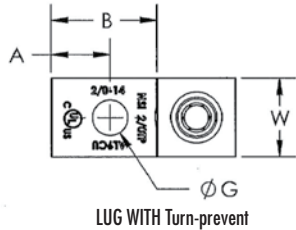


FEATURES

- Large size set-screw connectors with wire holes stacked on top of each other to minimize the width of the connector.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Turn prevent node located on bottom prevents rotation of lug.

SPECIFICATIONS

- UL Listed for Wire Connector.
- UL486A/B Listed. AL9CU.
- Temperature Rating: Single/Double TP Lugs 90 °C.
- Voltage: 600V (2000V max. per UL486B).



CAT. NO.	FIG. NO.	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	TANG LENGTH (A) (IN.)	TANG LENGTH (B) (IN.)	TANG THICKNESS (C) (IN.)	TURN PVT. LENGTH (D) (IN.)	TURN PVT. THICKNESS (E) (IN.)	MTG. HOLE TO TURN PVT. (F) (IN.)	HOLE DIA. (IN.)	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. BOLT SIZE (IN.)	STD. CTN. QTY.
2/0TP	1	2/0-14 AWG	1.470	0.880	1.130	0.470	0.840	0.190	0.090	0.130	0.410	0.280	120	3/16	1/4	50
300TP	1	300 MCM-6 AWG	2.000	0.990	1.130	0.380	1.000	0.250	0.090	0.190	0.490	0.440	330	5/16	7/16	24
350TP	1	350 MCM-6 AWG	2.250	0.990	1.130	0.500	1.250	0.250	0.090	0.190	0.630	0.340	400	5/16	5/16	20
2-350TP	2	(2) 350 MCM-6 AWG	2.250	1.920	1.130	0.500	1.125	0.250	0.090	0.187	0.630	0.406	400	5/8	3/8	8
600TP	1	600 MCM-2 AWG	3.180	1.380	1.510	0.880	1.930	0.380	0.090	0.190	0.630	0.530	550	3/8	1/2	6
2-600TP	2	(2) 600 MCM-2 AWG	3.180	2.410	1.510	0.880	1.930	0.380	0.130	0.190	0.630	0.530	550	3/8	1/2	4

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Box Turn-Prevent Lugs
BTP Series

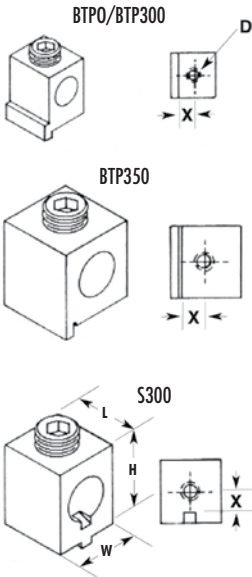
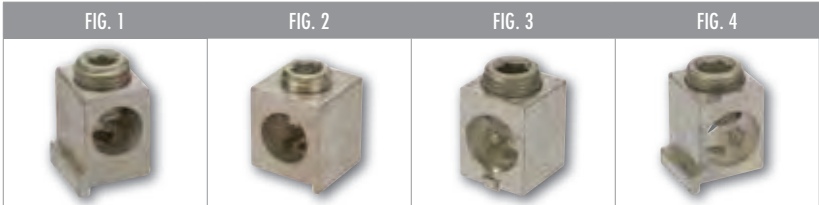


SPECIFICATIONS

- CSA 70142.
- UL486A/B Listed. AL9CU.
- Temperature Rating: 75 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

FEATURES

- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Design includes threaded mounting hole.
- Turn prevent node located on bottom prevents rotation of lug.



CAT. NO.	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. BOLT SIZE	WIDTH (W)	HEIGHT (H)	LENGTH (L)	MTG. HOLE DIA. (D)	TURN PVT. TO MTG. HOLE (X)	STD. CTN. QTY.
BTP0	1	0-10 AWG	120	5/16	# 10	0.660	0.830	0.620	# 10	0.230	25
BTP300	2	300 MCM-6 AWG	325	3/8	1/4	0.970	1.160	0.980	0.250	0.385	40
S300	3	300 MCM-6 AWG	325	3/8	1/4	0.880	1.090	0.880	0.250	0.312	25
BTP350	4	350 MCM-6 AWG	375	3/8	1/4	0.880	1.100	0.880	0.250	0.440	48

CONNECTORS
Mechanical Connectors

Aluminum, Dual Rated, Lay-In
GLA Series

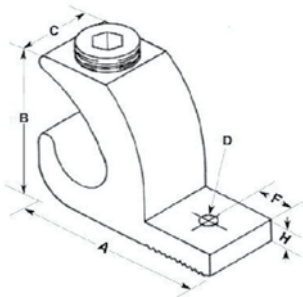
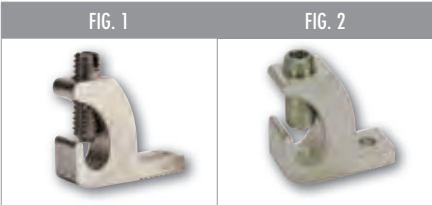


FEATURES

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Stainless Steel Screw (GLA-4 only).

SPECIFICATIONS

- UL Listed/cULus Listed for Wire Connector.
- UL486A/B Listed. AL9CU.
- CSA 701642 (GLA-250).
- Temperature Rating: 90 °C.
- Voltage: 600V (2000V max. per UL486B).
- *UL467 Listed Grounding & Bonding Equipment.



CAT. NO.	CERTIFICATION	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	MTG. BOLT SIZE	LENGTH (A)	HEIGHT (B)	WIDTH (C)	MTG. HOLE DIA. (D)	TANG LENGTH (F)	TANG THICKNESS (H)	STD. CTN. QTY.	
GLA-4	cULus	1	4-14 AWG	45	Slotted		0.187	1.070	0.750	0.380	0.218	0.190	0.150	100
GLA-0	cULus	1	1/0-8 AWG	120	Slotted		0.250	1.500	1.100	0.600	0.272	0.300	0.220	40
GLA-000	cULus	1	3/0-6 AWG	250	1/4		0.375	2.000	1.500	0.800	0.330	0.400	0.300	20
GLA-250	UL Recognized CSA	2	250 MCM-6 AWG	330	1/4		0.375	2.200	1.700	0.800	0.330	0.400	0.300	20

CONNECTORS
Mechanical Connectors

Aluminum, Dual Rated, Dual Range Lugs
BS Series

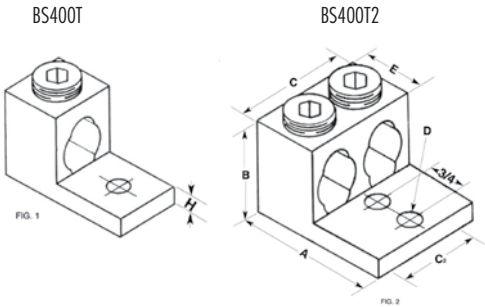
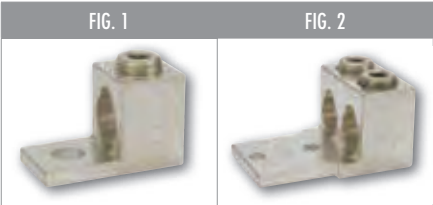


FEATURES

- Set-screw connectors that will accept either one or two wires.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

SPECIFICATIONS

- CSA 70142.
- UL Listed Wire Connector.
- UL486A/B Listed. AL9CU.
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).



CAT. NO.	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)		MTG. BOLT SIZE (IN.)	LENGTH (A) (IN.)	HEIGHT (B) (IN.)	WIDTH (C) (IN.)	MTG. HOLE DIA. (D) (IN.)	TANG LENGTH (F) (IN.)	TANG THICKNESS (H) (IN.)	STD. CTN. QTY.
BS400T	1	(1) 600 MCM-4 AWG	500	3/8		0.562	2.810	1.810	1.380	0.625	.725	0.312	6
BS400T	1	(2) 250 MCM-1/0 AWG	500	3/8		0.562	2.810	1.810	1.380	0.625	.725	0.312	6
BS400T2	2	(2) 250 MCM-1/0 AWG	500	3/8		0.250	3.812	2.000	2.468	0.281	.325	0.375	4
BS400T2	2	(4) 250 MCM-1/0 AWG	500	3/8		0.250	3.812	2.000	2.468	0.281	.325	0.375	4

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated ,T-Tap Connector & Covers
GP, GC Series

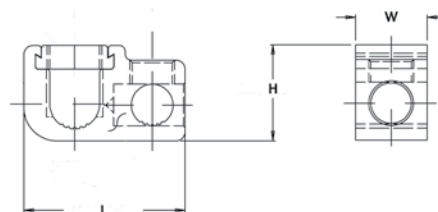


SPECIFICATIONS

- UL Listed/cULus Listed for Wire Connector E155274.
- UL486A/B Listed. AL9CU
- CSA 701642.
- Temperature Rating: 90 °C.
- Voltage: 600V.

FEATURES

- Excellent for tapping of main conductor due to lay-in feature.
- Perpendicular tap allows for parallel or "T" tap configuration.
- Flexible cover allows for either parallel or "T" tap wire entry.
- Secure snap cover eliminates need for taping.
- Electro-tin plated for low contact resistance.



CAT. NO.	FIG. NO.	STYLE	COLOR CODE	MAIN (RUN) WIRE RANGE	TAP WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
GP-2	1	Parallel "T" Tap	—	2-12 STR	4-14 STR	50	Slotted	1.390	0.630	0.880	25
GP-0	1	Parallel "T" Tap	—	1/0-2 AWG	1/0-14 AWG	120	0.187	1.750	0.750	1.000	12
GP-250-0	1	Parallel "T" Tap	—	250 MCM-1/0 AWG	1/0-14 AWG	275,120	0.187, 0.312	2.030	1.060	1.310	12
GP-250	1	Parallel "T" Tap	—	250 MCM-1/0 AWG	250 MCM-6 AWG	275	0.312	2.280	1.060	1.310	12
GP-350	1	Parallel "T" Tap	—	350 MCM-4/0 AWG	350 MCM-6 AWG	275	0.312	2.560	1.250	1.440	6
GP-500	1	Parallel "T" Tap	—	500-350 MCM	500-2 MCM	375	0.375	3.130	1.380	1.750	6
GP-750	1	Parallel "T" Tap	—	750-500 MCM	500-2 MCM	375	0.375	3.380	1.500	2.000	3
GC-2	2	Insulated Cover	Yellow	—	—	—	—	2.250	1.370	1.110	12
GC-0	2	Insulated Cover	Grey	—	—	—	—	2.610	2.170	1.260	6
GC-250	2	Insulated Cover	Red	—	—	—	—	3.440	3.180	1.630	3
GC-350	2	Insulated Cover	Yellow	—	—	—	—	3.760	3.290	1.760	3
GC-500	2	Insulated Cover	Blue	—	—	—	—	4.890	3.340	2.120	3
GC-750	2	Insulated Cover	Orange	—	—	—	—	4.550	3.450	2.340	3
GP-2WC	3	Parallel "T" Tap with Cover	Yellow	2-12 STR	4-14 STR	50	Slotted	2.250	1.370	1.110	12
GP-0WC	3	Parallel "T" Tap with Cover	Gray	1/0-2 AWG	1/0-14 AWG	120	0.187	2.610	2.170	1.260	10
GP-250-0WC	3	Parallel "T" Tap with Cover	Red	250 MCM-1/0 AWG	1/0-14 AWG	120, 275	0.187, 0.312	3.440	3.180	1.630	5
GP-250WC	3	Parallel "T" Tap with Cover	Red	250 MCM-1/0 AWG	250 MCM-6 AWG	275	0.312	3.440	3.180	1.630	5
GP-350WC	3	Parallel "T" Tap with Cover	Yellow	350 MCM-4/0 AWG	350 MCM-6 AWG	275	0.312	3.760	3.290	1.760	6
GP-500WC	3	Parallel "T" Tap with Cover	Blue	500-350 MCM	500-2 MCM	375	0.375	4.890	3.340	2.120	2
GP-750WC	3	Parallel "T" Tap with Cover	Orange	750-500 MCM	500-2 MCM	375	0.375	4.550	3.450	2.340	2

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Heavy Duty Transformer Lugs LL Series

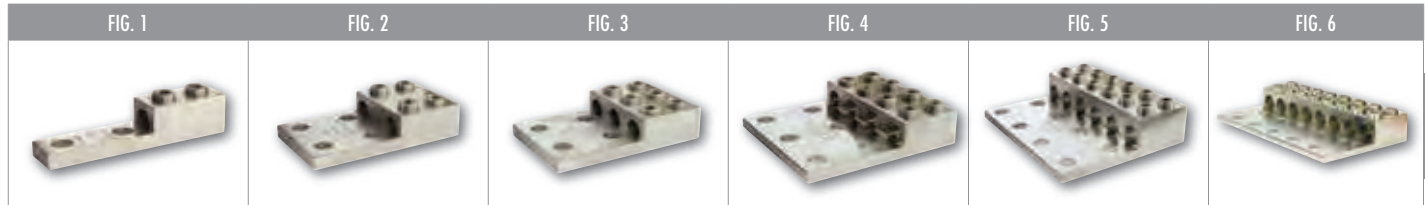
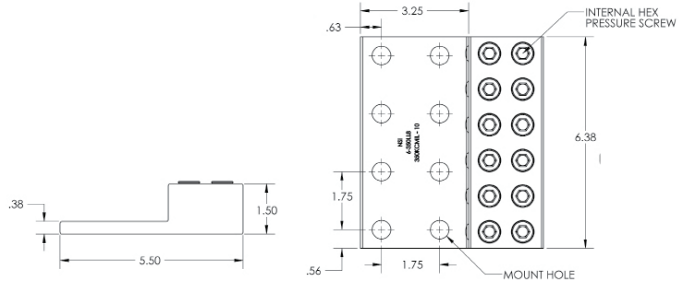


FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Mounting hole spacing is NEMA 1 3/4" spacing.

SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A, AL9CU
- Temperature Rating: 90 °C, AL9CU.
- Voltage: 600V max.



CAT. NO.	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	NO. OF CONDUCTORS	NO. OF MTG. HOLES	MTG. HOLE DIA. (IN.)	MTG. HOLE SPACING (IN.)	HEX WRENCH SIZE (IN.)	BOLT SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
350LL2	1	350 MCM-6 AWG	400	1	2	0.563	1.750	3/8	1/2	5.310	1.130	1.380	1
2-350LL4	2	350 MCM-6 AWG	400	2	4	0.563	1.750	3/8	1/2	5.310	2.000	1.380	1
3-350LL4	3	350 MCM-6 AWG	400	3	4	0.563	1.750	3/8	1/2	5.310	2.940	1.380	1
4-350LL6	4	350 MCM-6 AWG	400	4	6	0.563	1.750	3/8	1/2	5.310	3.870	1.380	1
6-350LL8	5	350 MCM-6 AWG	400	6	8	0.563	1.750	3/8	1/2	5.310	5.750	1.380	1
8-350LL8	6	350 MCM-6 AWG	400	8	8	0.563	1.750	3/8	1/2	5.310	7.620	1.380	1
8-350LL10	6	350 MCM-6 AWG	400	8	10	0.563	1.750	3/8	1/2	5.310	7.620	1.380	1
2-600LL4	2	600 MCM-2 AWG	550	2	4	0.563	1.750	3/8	1/2	5.875	2.410	1.562	1
4-600LL6	4	600 MCM-2 AWG	550	4	6	0.563	1.750	3/8	1/2	5.875	4.780	1.562	1
6-600LL6	6	600 MCM-2 AWG	550	6	6	0.563	1.750	3/8	1/2	8.750	5.750	1.750	1
2-800LL4	2	800-300 MCM	550	2	4	0.563	1.750	1/2	1/2	6.188	2.737	1.875	1
4-800LL8	4	800-300 MCM	550	4	8	0.563	1.750	1/2	1/2	6.188	5.487	1.875	1
2-1000LL4	2	800-300 MCM	550	2	4	0.563	1.750	1/2	1/2	6.188	2.982	1.875	1
4-1000LL8	4	1000-500 MCM	600	4	8	0.563	1.750	1/2	1/2	6.188	5.982	1.875	1
8-1000LL12	6	1000-500 MCM	600	8	12	0.563	1.750	1/2	1/2	6.188	11.982	1.875	1

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Transformer Lugs
T, L Series

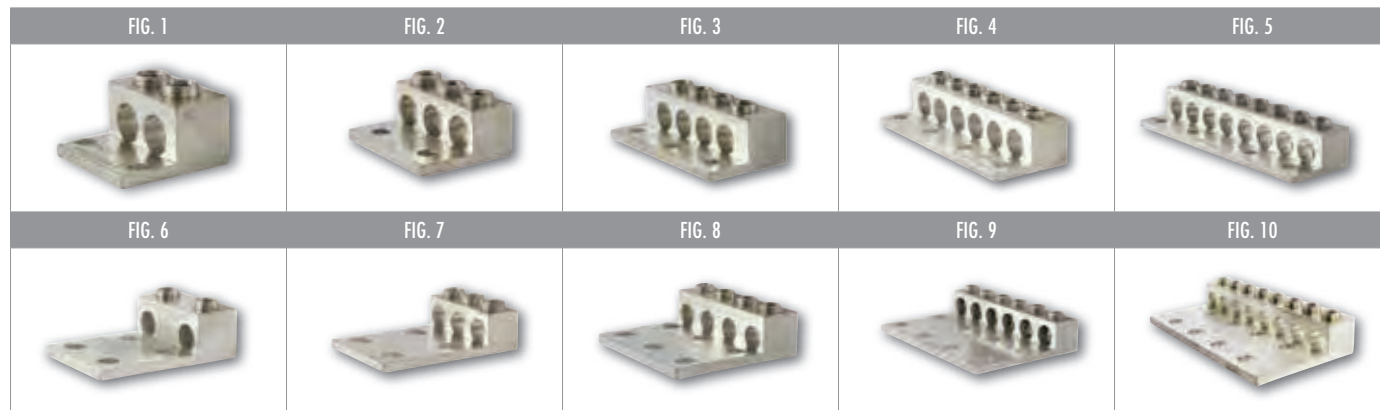


SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A . AL9CU
- Temperature Rating: 90 °C. AL9CU.
- Voltage: 600V max.

FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Mounting hole spacing is NEMA 1 3/4".



CAT. NO.	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	NO. OF CONDUCTORS	NO. OF MTG. HOLES (IN.)	MTG. HOLE DIA. (IN.)	MTG. HOLE SPACING (IN.)	HEX WRENCH SIZE (IN.)	MTG. BOLT SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. PKG. QTY.
2-350T2	1	350 MCM-6 AWG	400	2	2	0.375	1.750	3/8"	5/16"	2.250	1.940	1.250	1
3-350T2	2	350 MCM-6 AWG	400	3	2	0.375	1.750	3/8"	5/16"	2.250	2.840	1.250	1
4-350T3	3	350 MCM-6 AWG	400	4	3	0.375	1.750	3/8"	5/16"	2.250	3.750	1.250	1
6-350T4	4	350 MCM-6 AWG	400	6	4	0.375	1.750	3/8"	5/16"	2.250	4.660	1.250	1
8-350T4	5	350 MCM-6 AWG	400	8	4	0.375	1.750	3/8"	5/16"	2.250	5.560	1.250	1
2-350L4	6	350 MCM-6 AWG	400	2	4	0.563	1.750	3/8"	1/2"	4.310	2.000	1.380	1
3-350L4	7	350 MCM-6 AWG	400	3	4	0.563	1.750	3/8"	1/2"	4.310	2.940	1.380	1
4-350L6	8	350 MCM-6 AWG	400	4	6	0.563	1.750	3/8"	1/2"	4.310	3.870	1.380	1
6-350L8	9	350 MCM-6 AWG	400	6	8	0.563	1.750	3/8"	1/2"	4.310	5.750	1.380	1
8-350L8	10	350 MCM-6 AWG	400	8	8	0.563	1.750	3/8"	1/2"	4.310	7.620	1.380	1
2-600L4	6	600 MCM-2 AWG	550	2	4	0.563	1.750	3/8"	1/2"	4.500	2.410	1.630	1
3-600L4	7	600 MCM-2 AWG	550	3	4	0.563	1.750	3/8"	1/2"	4.500	3.590	1.630	1
4-600L6	8	600 MCM-2 AWG	550	4	6	0.563	1.750	3/8"	1/2"	4.500	4.780	1.630	1
6-600L8	9	600 MCM-2 AWG	550	6	8	0.563	1.750	3/8"	1/2"	4.500	7.160	1.630	1

CONNECTORS

Mechanical Connectors

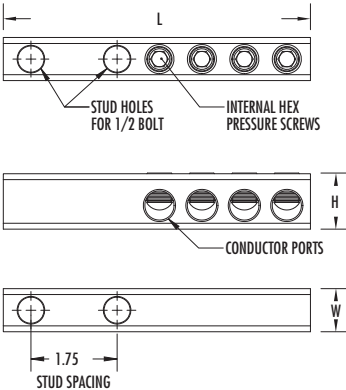
Aluminum, Dual Rated, Transformer Stud Connectors
STL Series

FEATURES

- Made from 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- Two NEMA 1/2" holes for easy attachment.

SPECIFICATIONS

- Temperature Rating: 90 °C. AL9CU
- Voltage: 600V max.



CAT. NO.	FIG. NO.	WIRE RANGE	NO. OF CONDUCTORS	MTG. HOLE DIA. (IN.)	MTG. HOLE SPACING (IN.)	MAX TORQUE VALUE (IN./LBS.)	MTG. BOLT SIZE (IN.)	HEX WRENCH SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
STL250-4	1	250 MCM-6 AWG	4	0.560	1.750	360	1/2	5/16	6.240	0.875	1.125	6
STL250-6	2	250 MCM-6 AWG	6	0.560	1.750	360	1/2	5/16	7.960	0.875	1.125	6
STL250-8	3	250 MCM-6 AWG	8	0.560	1.750	360	1/2	5/16	9.680	0.875	1.125	6
STL350-4	1	350 MCM-6 AWG	4	0.560	1.750	400	1/2	5/16	6.960	1.000	1.440	6
STL350-6	2	350 MCM-6 AWG	6	0.560	1.750	400	1/2	5/16	9.060	1.000	1.440	6
STL350-8	3	350 MCM-6 AWG	8	0.560	1.750	400	1/2	5/16	11.160	1.000	1.440	6
STL500-4	1	500 MCM-4 AWG	4	0.560	1.750	450	1/2	5/16	7.500	1.130	1.630	6
STL500-6	2	500 MCM-4 AWG	6	0.560	1.750	450	1/2	5/16	9.740	1.130	1.630	6
STL500-8	3	500 MCM-4 AWG	8	0.560	1.750	450	1/2	5/16	12.030	1.130	1.630	6
STL750-4	1	750-250 MCM	4	0.560	1.750	550	1/2	3/8	8.570	1.440	2.000	3
STL750-6	2	750-250 MCM	6	0.560	1.750	550	1/2	3/8	11.420	1.440	2.000	3
STL750-8	3	750-250 MCM	8	0.560	1.750	550	1/2	3/8	14.280	1.440	2.000	3

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Secondary Transformer Connectors
SFTZ, SOTZ Series

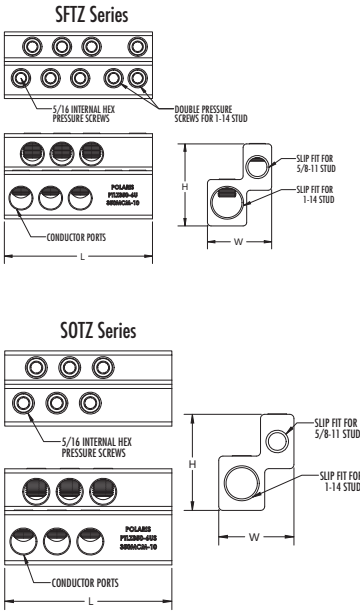
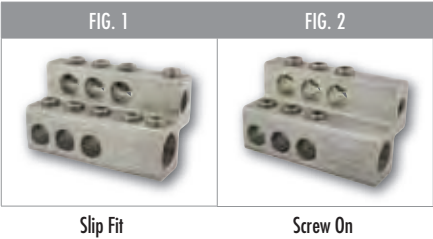


FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Electro-tin plated for low contact resistance.
- For use on slip-fit or threaded transformers.
- For use with copper and aluminum conductors.

SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A . AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max.



CAT. NO.	FIG. NO.	WIRE RANGE	TYPE	NO. OF CONDUCTORS	STUD SIZE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
SFTZ350-6	1	350 MCM-6 AWG	Slip Fit	6	5/8-11, 1-14	400	5/16	5.000	2.250	2.880	1
SFTZ350-8	1	350 MCM-6 AWG	Slip Fit	8	5/8-11, 1-14	400	5/16	6.000	2.250	2.880	1
SFTZ500-6	1	500 MCM-6 AWG	Slip Fit	6	5/8-11, 1-14	450	5/16	5.550	2.250	2.880	1
SOTZ350-6	2	350 MCM-6 AWG	Screw On	6	5/8-11, 1-14	400	5/16	5.000	2.250	2.880	1
SOTZ350-8	2	350 MCM-6 AWG	Screw On	8	5/8-11, 1-14	400	5/16	6.000	2.250	2.880	1
SOTZ500-8	2	500 MCM-6 AWG	Screw On	8	5/8-11, 1-14	450	5/16	6.680	2.250	2.880	1

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Transformer Stud Connectors TS Series

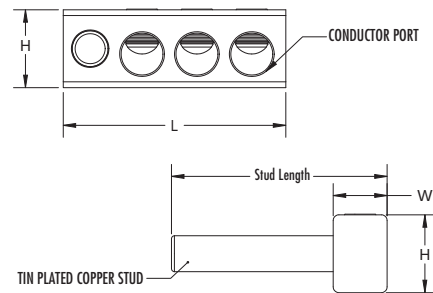


SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A.
- Temperature Rating: 90 °C. AL9CU.
- Voltage: 600V max.

FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Clear plated for low contact resistance; stud is tin plated copper which provides low contact resistance for connection to transformer.
- For use with copper and aluminum conductors.
- Hole configuration varies.



CAT. NO.	WIRE RANGE	NO. OF CONDUCTORS	COPPER STUD DIA.	STUD LENGTH	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	STD. CTN. QTY.
TS1/0-2	1/0-4 AWG	2	0.375	3.00	180	5/16	2.030	0.630	0.880	1
TS1/0-4	1/0-4 AWG	4	0.375	3.00	180	5/16	2.680	0.880	0.880	1
TS250-2	250 MCM-6 AWG	2	0.500	4.00	360	5/16	2.590	0.880	1.130	1
TS250-3	250 MCM-6 AWG	3	0.500	4.00	360	5/16	3.460	0.880	1.130	1
TS250-4	250 MCM-6 AWG	4	0.500	4.00	360	5/16	4.320	0.880	1.130	1
TS250-8	250 MCM-6 AWG	8	0.500	4.00	360	5/16	7.770	0.880	1.130	1
TS350-2	350 MCM-6 AWG	2	0.625	4.00	400	5/16	2.950	0.880	1.250	1
TS350-2-12	350 MCM-6 AWG	2	0.500	4.00	400	5/16	2.950	0.880	1.250	1
TS350-3	350 MCM-6 AWG	3	0.625	4.00	400	5/16	3.950	0.880	1.250	1
TS350-4	350 MCM-6 AWG	4	0.625	4.00	400	5/16	4.950	0.880	1.250	1
TS350-6	350 MCM-6 AEG	6	0.625	4.00	400	5/16	6.950	0.880	1.250	1
TS350-8	350 MCM-6 AWG	8	0.625	4.00	400	5/16	8.950	0.880	1.250	1
TS500-2	500 MCM-4 AWG	2	0.750	4.50	450	5/16	4.650	1.130	1.630	1
TS500-3	500 MCM-4 AWG	3	0.750	4.50	450	5/16	5.790	1.130	1.630	1
TS500-4	500 MCM-4 AWG	4	0.750	4.50	450	5/16	6.940	1.130	1.630	1
TS750-2	750-250 MCM	2	0.750	5.50	550	5/16	4.040	1.250	1.750	1
TS750-4	750-250 MCM	4	0.750	5.50	550	5/16	6.720	1.250	1.750	1

CONNECTORS

Mechanical Connectors

Aluminum Flexible Cable Sleeve Connectors

FS Series



FEATURES

- For use with fine-stranded and flexible wire.
- Made from copper tube and plated for corrosion resistance.
- Belled end allows for easy cable insertion.

CAT. NO.	SLEEVE ID.	COMM. CABLE SIZE	COMM. CABLE	APPROX. CONDUCTOR DIAMETER			LENGTH (L)	USE WITH MECHANICAL CONN. SIZE	STD. CTN. QTY.
				CLASS M WELDING	CLASS H	DIESEL LOCOMOTIVE			
FS008	0.180	8 AWG	0.146	0.162	0.167	0.140	0.4724	4 AWG	100
FS006	0.236	6 AWG	0.184	0.215	0.210	0.180	0.4724	4 AWG	100
FS004	0.291	4 AWG	0.232	0.269	0.266	0.240	0.4724	1/0 AWG	50
FS002	0.336	2 AWG	0.292	—	—	0.325	0.5906	1/0 AWG	50
FS001	0.415	2 AWG	—	0.337	0.335	—	0.7087	3/0 AWG	25
	—	1 AWG	0.332	0.376	0.378	0.390	—	—	—
FS010	0.500	1/0 AWG	0.373	0.423	0.424	0.420	0.8661	250 MCM	25
	—	2/0 AWG	0.419	—	0.477	0.460	—	—	—
FS020	0.579	2/0 AWG	—	0.508	—	—	0.9843	350 MCM	25
	—	3/0 AWG	0.470	—	0.536	0.565	—	—	—
FS030	0.657	3/0 AWG	—	0.576	—	—	1.1812	350 MCM	12
	—	4/0 AWG	0.528	—	0.601	0.590	—	—	—
FS040	0.738	4/0 AWG	—	0.645	—	0.660 (262.6)	1.2598	500 MCM	12
	—	250 MCM	0.575	0.713	0.653	—	—	—	—
FS350	0.798	300 MCM	0.630	0.768	0.716	0.720 (313.1)	—	—	—
	—	350 MCM	0.681	—	0.772	0.781 (313.7)	1.2598	500 MCM	12

CONNECTORS

Mechanical Connectors

Copper Single Lugs Extruded & Tubular TC Series

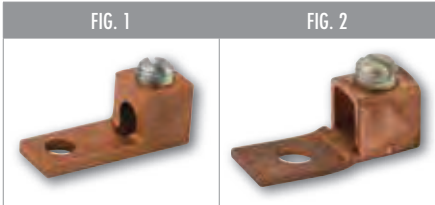
FEATURES

COPPER SINGLE LUGS - CU - EXTRUDED STYLES

- Solid one-piece copper connector made from extruded copper for superior mechanical strength and excellent electrical performance.
- Steel screw.
- For use with copper wire only.

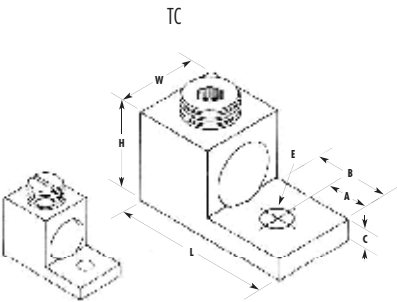
COPPER SINGLE LUGS - CU - TUBULAR STYLES

- Copper connector made from tubular copper.
- Steel screw.
- For use with copper wire only.



SPECIFICATIONS

- UL Listed E155274
- UL486A Listed for Wire Connector.
- Temperature Rating: 90 °C. 9CU.
- Voltage: 600V max.



CAT. NO.	FIG. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./ LBS.)	HEX WRENCH SIZE	MTG. BOLT SIZE	LENGTH (L)	HEIGHT (H)	WIDTH (W)	MTG. HOLE DIA. (E)	TANG LENGTH (B)	END OF CONN. TO CENTER HOLE (A)	TANG THICKNESS (C)	STD. CTN. QTY.
6TC	1	6-14 AWG	25	Slotted	3/16	1.020	0.400	0.375	0.193	0.650	0.187	0.115	100
4TC	1	4-14 AWG	25	Slotted	1/4	1.075	0.440	0.450	0.265	0.747	0.275	0.100	100
2TC	1	2-14 AWG	30	Slotted	1/4	1.125	0.484	0.458	0.265	0.650	0.325	0.125	100
0TC	1	1/0-14 AWG	40	Slotted	1/4	1.277	0.680	0.548	0.265	0.677	0.337	0.125	50
4/0TC	1	4/0-2 AWG	200	5/16"	3/8	1.950	0.950	0.812	0.390	1.075	0.406	0.218	25
6TC-1	2	6-14 AWG	25	Slotted	3/16	0.995	0.778	0.345	0.203	0.620	0.226	0.610	100
4TC-1	2	4-14 AWG	45	Slotted	1/4	1.255	1.255	0.453	0.258	0.755	0.500	0.750	100

CONNECTORS

Mechanical Connectors

Copper Single/Double Solderless Lugs DE Series

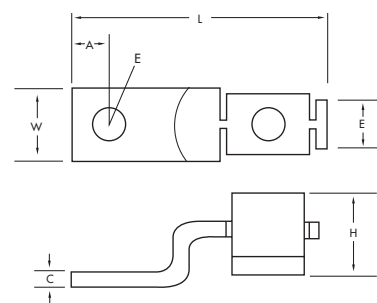
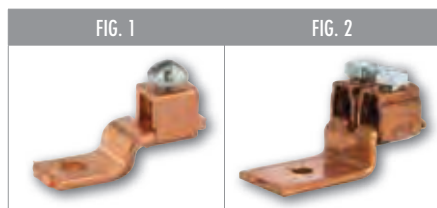


SPECIFICATIONS

- UL486A Listed for Wire Connector.
- Temperature Rating: 90 °C. 9CU.
- Voltage: 600V max.

FEATURES

- Made of 99.98% pure electrolytic copper.
- Steel-plated screws to prevent rusting.
- 25 to 70 ampere sizes have slotted head screws.
- Larger sizes have hex head screws.
- For use with Copper wire only.



CAT.NO.	FIG. NO.	WIRE RANGE	MTG. BOLT SIZE	AMP RATING	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	TANG LENGTH (A)	TANG THICKNESS (C)	MTG. HOLE DIA. (E)	STD. CTN. QTY.
DE703	1	10-14 AWG	1/4	25	60	Slotted	1.025	0.315	0.465	0.195	0.069	0.160	100
DE704	1	6-14 AWG	3/16	35	90	Slotted	1.190	0.380	0.500	0.230	0.070	0.250	100
DE705	1	2-8 AWG	5/16	70	125	Slotted	1.550	0.500	0.650	0.250	0.090	0.340	100
DE711	1	4-14 AWG	1/4	70	90	Slotted	1.310	0.500	0.560	0.250	0.080	0.280	50
DE706	1	1/0-8 AWG	1/4	125	150	Slotted	1.970	0.630	0.880	0.500	0.130	0.280	25
DE713	1	3/0-4 AWG	3/8	175	200	3/8	2.190	0.750	1.030	0.440	0.130	0.500	18
DE707	1	4/0-2 AWG	1/2	225	200	7/32	2.380	1.000	1.170	0.470	0.130	0.560	15
D899	2	4/0-2 AWG	5/8	450	200	5/8	3.200	1.502	1.720	0.915	0.190	0.405	6
DE710	1	350 MCM-1/0 AWG	3/4	300	250	3/4	3.025	0.998	2.310	0.450	0.186	0.403	10
DE708	1	500 MCM-4/0 AWG	15/16	400	300	15/16	4.320	1.497	2.200	0.840	0.190	0.403	2
DE709	1	1000-600 MCM	3/8	650	400	3/8	4.360	1.998	2.870	1.080	0.254	0.530	2

CONNECTORS

Mechanical Connectors

Copper & Bronze Terminal Lugs TL Series

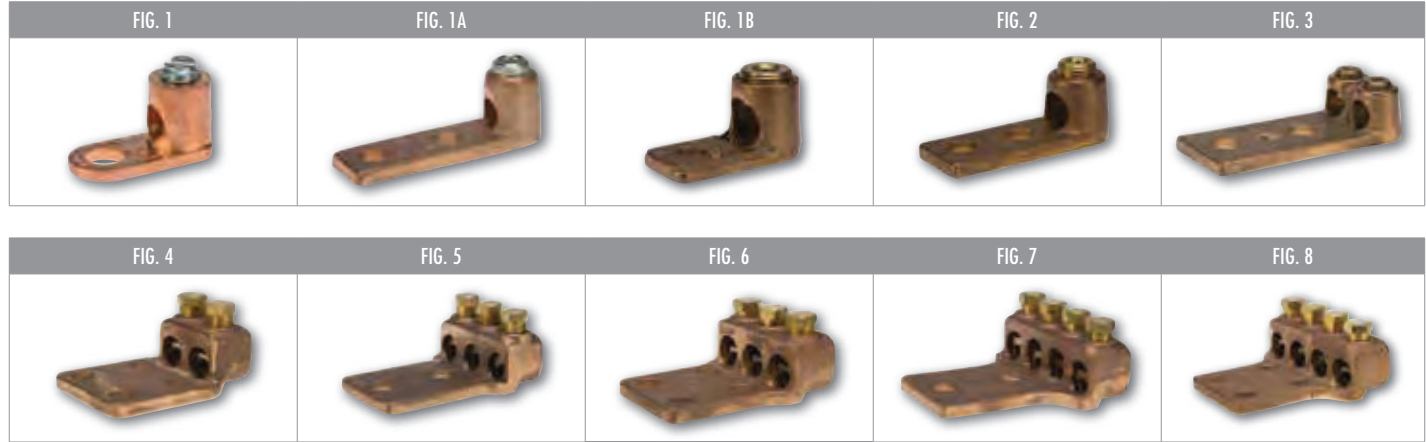


SPECIFICATIONS

- UL Listed E155274.
- UL486A Listed for Wire Connector. 9CU.
- Voltage: 600V max.

FEATURES

- Made from high conductivity copper alloy.
- Range taking.
- Re-usable.
- For use with Copper wire only.
- * Some figures are made from high strength cast bronze.



CAT. NO.	FIG. NO.	MTG. BOLT SIZE	WIRE RANGE	MTG. HOLE DIA.	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	TANG LENGTH (A)	TANG LENGTH (B)	TANG THICKNESS (C)	STD. CTN. QTY.
TL8	1	3/16	8 STR-14 SOL	0.200	60	Slotted	0.815	0.390	0.400	0.150	0.467	0.080	100
TL4	1	1/4	4 STR - 14 SOL	0.278	90	Slotted	1.125	0.537	0.553	0.248	0.617	0.096	100
TL1/0	1A	5/16	1/0 STR - 4 SOL	0.315	150	1/4	1.584	0.723	0.792	0.370	0.866	0.090	50
TL1/0-L2*	2	5/16	1/0 STR - 4 SOL	0.360	150	1/4	2.670	0.775	0.895	0.388	1.908	0.183	40
TL250	1A	3/8	250 MCM - 6 STR	0.380	250	1/4	1.950	0.927	1.049	0.416	1.088	0.119	25
TL250-L2*	2	3/8	250 MCM - 1/0 STR	0.403	250	1/4	2.996	1.103	1.025	0.424	1.890	0.246	15
TL250-2L2*	3	1/2	300 MCM - 4/0 STR	0.560	250	1/4	4.473	1.994	1.102	0.713	3.375	0.283	10
TL250-3L2*	5	1/2	300 MCM - 4/0 STR	0.560	250	5/8	4.472	3.058	1.838	0.600	3.255	0.362	4
TL250-4L2*	7	1/2	300 MCM - 4/0 STR	0.560	250	5/8	4.440	4.089	1.783	0.650	3.175	0.394	3
TL500	1B	1/2	500 MCM - 4/0 STR	0.525	300	3/8	2.986	1.375	1.456	0.750	1.640	0.303	10
TL500-L2*	2	1/2	500 - 300 MCM	0.562	300	3/4	4.500	1.375	2.154	0.625	3.000	0.344	6
TL500-2L2*	3	1/2	500 - 300 MCM	0.562	300	3/4	4.500	2.500	2.055	0.625	3.000	0.375	6
TL500-2L4*	4	1/2	500 - 300 MCM	0.562	300	3/4	4.500	3.000	2.055	0.625	3.000	0.375	4
TL500-3L2*	5	1/2	500 - 300 MCM	0.562	300	3/4	4.500	2.500	2.150	0.625	3.000	0.375	3
TL500-3L4*	6	1/2	500 - 300 MCM	0.562	300	3/4	4.500	3.625	2.150	0.625	3.000	0.375	3
TL500-4L2*	7	1/2	500 - 300 MCM	0.562	300	3/4	4.500	4.187	2.150	0.625	3.000	0.375	2
TL500-4L4*	8	1/2	500 - 300 MCM	0.562	300	3/4	4.500	4.187	2.150	0.625	3.000	0.375	2
TL1000	1B	1/2	1000 - 500 MCM	0.557	400	3/8	3.992	1.985	1.945	0.742	2.245	0.356	4
TL1000-L2*	2	1/2	1000 - 750 MCM	0.562	400	7/8	4.875	1.875	2.887	0.625	3.000	0.500	4
TL1000-2L4*	4	1/2	1000 - 750 MCM	0.570	400	7/8	5.045	3.630	2.900	0.620	3.270	0.517	2
TL1000-3L4*	6	1/2	1000 - 750 MCM	0.570	400	7/8	6.045	3.630	2.900	0.620	3.270	0.517	2

CONNECTORS

Mechanical Connectors

Aluminum, Dual Rated, Parallel Groove Clamps
PAA, PAE Series

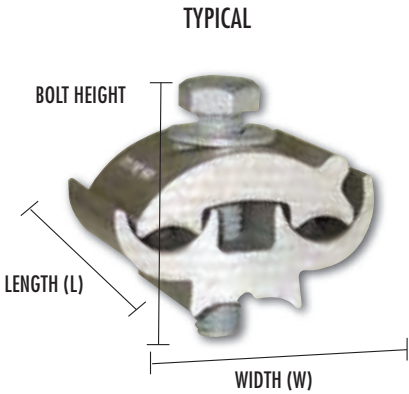
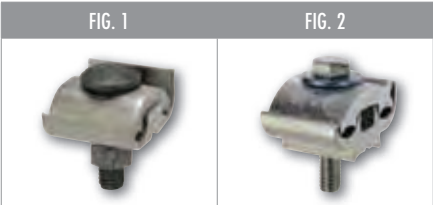


SPECIFICATIONS

- Temperature Rating: 90 °C.
- Voltage: 600V max.

FEATURES

- High strength aluminum extruded alloy fittings assembled with steel or anodized high strength aluminum flat washers for heavy duty service entrance or for use as heavy duty distribution armor rod clamps.
- Serrated grooves provide increased contact. Supplied pre-filled with oxide inhibitor.
- For galvanized steel hardware, add the suffix -SH to each part number.



CAT. NO.	FIG. NO.	MAIN/RUN		TAP		HEX WRENCH SIZE		BOLT HEIGHT	WIDTH (W)	LENGTH (L)	STD. CTN. QTY.
		ACSR	AL/CU	ACSR	AL/CU						
PAA4	1	1/0-6	1/0 STR-6 SOL	1/0-6	1/0 STR-6 SOL	3/8		1.187	1.500	2.219	25
PAA5	1	1/0-8	1/0 STR-8 SOL	1/0-8	1/0 STR-8 SOL	3/8		1.496	1.496	1.240	25
PAA6	1	1/0-8	2/0 STR-8 SOL	1/0-8	2/0 STR-8 SOL	3/8		1.496	1.496	1.240	25
PAA10	1	336.4-1/0	400-1/0 SOL	1/0-8	1/0 STR-8 SOL	3/8		2.000	1.750	2.469	12
PAA12	1	4/0-2	4/0 STR-2 SOL	4/0-2	4/0 STR-2 SOL	1/2		2.000	2.000	2.250	12
PAA29	1	2-6	2 STR-6 SOL	2-6	2 STR-6 SOL	5/16		1.094	1.375	1.813	25
PAA129	1	4/0-2	4/0 STR-2 SOL	4/0-2	4/0 STR-20L	1/2		2.250	2.000	2.000	12
PAE2121-9	2	2/0-6	2/0 STR-6 SOL	2/0-6	2/0 STR-6 SOL	3/8		2.000	1.625	1.375	25
PAE4141-9	2	4/0-4	4/0 STR-2 SOL	4/0-4	4/0 STR-2 SOL	3/8		2.000	2.000	1.375	12

CONNECTORS
Mechanical Connectors

Aluminum Service Wedge Clamps
W Series

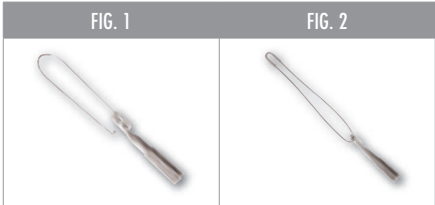


SPECIFICATIONS

- UL486A Listed for Wire Connector.
- Temperature Rating: 90 °C
- Voltage: 600V max.

FEATURES

- For dead-ending self-supporting drop wire.
- Saves conductor — drop wire may be cut to exact length.
- Can be attached to bare neutral in any point in the span.
- Adjustment in drop wire sag are easily made.
- Grips ACSR, AAAC or aluminum conductor.
- Catalog number with “FC” suffix have a Flexible bail.



CAT. NO.	FIG. NO.	WIRE RANGE			LENGTH (L)	WIDTH (W)	STD. CTN. QTY.
		ACSR	ALUMINUM	AAAC			
W62-1	1	2-6	1 STR-6 SOL	2-6	12.000	2.375	12
W62-1FC	2	2-6	1 STR-6 SOL	2-6	17.500	FLEX	12
W20-1	1	1/0-4	2/0 STR-2 SOL	1/0-4	12.500	2.375	8
W20-1FC	2	1/0-4	2/0 STR-2 SOL	1/0-4	18.500	FLEX	8
W40-1	1	4/0-2/0	4/0 STR-2/0 SOL	4/0-2/0	12.750	2.375	6
W40-1FC	2	4/0-2/0	4/0 STR-2/0 SOL	4/0-2/0	18.500	FLEX	6

CONNECTORS

Mechanical Connectors

Service Entrance Connector
EC Series



SPECIFICATIONS

- Temperature Rating: 90 °C
- Voltage: 600V max.

FEATURES

- Body and screw are of high strength, corrosion resistant copper alloy.

CAT. NO.	WIRE RANGE	MAX TORQUE VALUE (IN./LBS.)	HEX WRENCH SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	STD. CTN. QTY.
EC12	12 str	35	1/4	0.312	0.312	0.684	100
EC6	6 str	45	5/16	0.378	0.378	0.828	100
EC4	4 str	45	3/8	0.436	0.436	0.906	100
EC2	2 str	50	7/8	0.564	0.564	1.146	100

CONNECTORS

Compression Connectors

Aluminum, Dual Rated, One Hole Standard Barrel AL Series

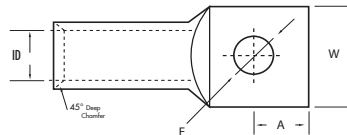
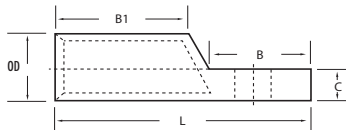


FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed to cable manufactures specifications.

SPECIFICATIONS

- cULus Listed for Wire Connector.
- UL486A/B Listed for Wire Connector.
- UL Listed to 35kV when properly installed to cable manufacturers specifications.
- Temperature Rating: 90 °C. AL9CU
- Crimp Tool: N1240, N121D.
- Voltage: 600V max. (2000V max. per UL486B).



***EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 90**

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE	BARREL O.D.	BARREL I.D.	LENGTH (L)	WIDTH (W)	TANG LENGTH (A)	TANG LENGTH (B)	BARREL LENGTH (B1)	TANG THICKNESS (C)	MTG. HOLE DIA. (E)	STD. CTN. QTY.
AL8-14	8 AWG	8 AWG	Blue	1/4	0.302	0.182	1.549	0.410	0.231	0.645	0.550	0.114	0.260	24
AL6-14	6 AWG	6-8 AWG	Gray	1/4	0.339	0.201	2.008	0.567	0.378	0.878	0.858	0.098	0.248	24
AL4-14	4 AWG	4-6 AWG	Green	1/4	0.441	0.252	2.307	0.567	0.378	0.878	1.098	0.189	0.248	24
AL4-38	4 AWG	4-6 AWG	Green	3/8	0.441	0.252	2.390	0.650	0.378	0.878	1.098	0.150	0.409	24
AL2-14	2 AWG	2-6 AWG	Pink	1/4	0.532	0.311	2.500	0.709	0.378	0.878	1.201	0.217	0.248	24
AL2-38	2 AWG	2-6 AWG	Pink	3/8	0.532	0.311	2.500	0.709	0.378	0.878	1.201	0.217	0.409	24
AL1-14	1 AWG	1-6 AWG	Gold	1/4	0.532	0.350	2.500	0.728	0.378	0.878	1.201	0.177	0.248	24
AL1/0-38	1/0 AWG	1/0-6 AWG	Tan	3/8	0.630	0.390	2.807	0.847	0.500	0.929	1.201	0.240	0.409	24
AL1/0-48	1/0 AWG	1/0-6 AWG	Tan	1/2	0.630	0.390	2.807	0.847	0.020	0.929	1.201	0.240	0.508	24
AL2/0-38	2/0 AWG	2/0-4 AWG	Olive	3/8	0.689	0.441	2.807	0.937	0.500	1.118	1.299	0.240	0.409	12
AL2/0-48	2/0 AWG	2/0-4 AWG	Olive	1/2	0.689	0.441	2.807	0.937	0.500	1.118	1.299	0.240	0.508	12
AL3/0-38	3/0 AWG	3/0-2 AWG	Ruby	3/8	0.760	0.480	3.000	1.028	0.500	1.118	1.402	0.280	0.409	12
AL3/0-48	3/0 AWG	3/0-2 AWG	Ruby	1/2	0.760	0.480	3.000	1.028	0.500	1.118	1.402	0.280	0.508	12
AL4/0-38	4/0 AWG	4/0-1 AWG	White	3/8	0.839	0.551	3.429	1.150	0.559	1.307	1.402	0.287	0.409	12
AL4/0-48	4/0 AWG	4/0-1 AWG	White	1/2	0.839	0.551	3.429	1.150	0.559	1.307	1.402	0.287	0.508	12
AL250-48	250 MCM	250 MCM-1/0 AWG	Red	1/2	0.921	0.591	3.500	1.260	0.630	1.307	1.500	0.319	0.508	12
AL300-48	300 MCM	300 MCM-2/0 AWG	Blue	1/2	1.012	0.650	4.000	1.370	0.630	1.500	1.598	0.347	0.508	6
AL350-48	350 MCM	350MCM-3/0 AWG	Brown	1/2	1.118	0.721	4.248	1.520	0.689	1.500	1.902	0.390	0.508	6
AL400-48	400 MCM	400MCM-4/0 AWG	Green	1/2	1.189	0.760	4.677	1.606	0.689	1.500	2.299	0.417	0.508	6
AL500-48	500 MCM	500-250 MCM	Pink	1/2	1.319	0.839	4.748	1.787	0.748	1.500	2.500	0.469	0.508	6
AL500-58	500 MCM	500-250 MCM	Pink	5/8	1.319	0.839	4.748	1.787	0.748	1.500	2.500	0.469	0.669	6
AL600-48	600 MCM	600-250 MCM	Black	1/2	1.441	0.921	5.118	1.957	0.748	1.870	2.598	0.508	0.508	3
AL600-58	600 MCM	600-250 MCM	Black	5/8	1.441	0.921	5.118	1.957	0.748	1.870	2.598	0.508	0.669	3
AL750-48	750 MCM	750-500 MCM	Yellow	1/2	1.598	1.032	6.118	2.189	0.937	2.000	3.201	0.547	0.508	3
AL750-58	750 MCM	750-500 MCM	Yellow	5/8	1.598	1.032	6.118	2.189	0.937	2.000	3.201	0.547	0.669	3
AL1000-58	1000 MCM	—	Brown	5/8	1.833	1.173	6.719	2.500	1.000	2.500	2.562	0.688	0.669	1

CONNECTORS

Compression Connectors

Aluminum, Dual Rated, Two Hole Standard Barrel
AL-N Series

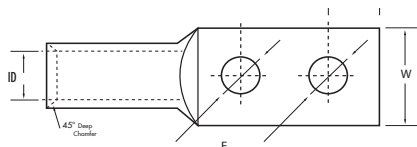
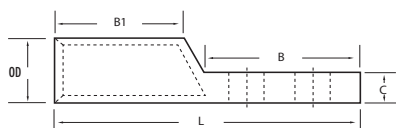
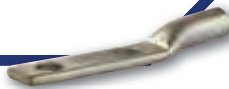


SPECIFICATIONS

- cULus Listed for Wire Connector.
- UL486A/B Listed for Wire Connector.
- UL Listed to 35kV when properly installed to cable manufacturers specifications.
- **Temperature Rating:** 90 °C. AL9CU
- **Crimp Tool:** N1240, N121D.
- **Voltage:** 600V max. (2000V max. per UL486B).

FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed to cable manufactures specifications.



***EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 90

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE	MTG. HOLE SPACING	O.D.	I.D.	LENGTH (L)	WIDTH (W)	TANG LENGTH (A)	TANG LENGTH (B)	BARREL LENGTH (B1)	TANG THICKNESS (C)	MTG. HOLE DIA. (E)	STD. CTN. QTY.
AL1/ON	1/0 AWG	1/0-6 AWG	Tan	1/2	1.750	0.630	0.390	4.748	0.847	0.630	3.118	1.201	0.240	0.508	12
AL2/ON	2/0 AWG	2/0-4 AWG	Olive	1/2	1.750	0.690	0.440	4.799	0.937	0.630	3.118	1.299	0.240	0.508	12
AL3/ON	3/0 AWG	3/0-2 AWG	Ruby	1/2	1.750	0.760	0.480	5.000	1.028	0.630	3.118	1.402	0.280	0.508	12
AL4/ON	4/0 AWG	4/0-1 AWG	White	1/2	1.750	0.840	0.550	5.248	1.150	0.630	3.118	1.402	0.287	0.508	12
AL250N	250 MCM	250 MCM-1/0 AWG	Red	1/2	1.750	0.920	0.590	5.307	1.260	0.630	3.118	1.500	0.319	0.508	12
AL300N	300 MCM	300 MCM-2/0 AWG	Blue	1/2	1.750	1.010	0.650	5.500	1.370	0.630	3.118	1.598	0.347	0.508	6
AL350N	350 MCM	350MCM-3/0 AWG	Brown	1/2	1.750	1.120	0.720	5.870	1.520	0.630	3.118	1.902	0.390	0.508	6
AL400N	400 MCM	400MCM-4/0 AWG	Green	1/2	1.750	1.190	0.760	6.429	1.606	0.630	3.118	2.299	0.417	0.508	6
AL500N	500 MCM	500-250 MCM	Pink	1/2	1.750	1.320	0.840	6.500	1.787	0.630	3.118	2.500	0.469	0.508	6
AL600N	600 MCM	600-250 MCM	Black	1/2	1.750	1.440	0.920	6.748	1.779	0.630	3.118	2.598	0.508	0.508	3
AL750N	750 MCM	750-500 MCM	Yellow	1/2	1.750	1.598	1.030	7.370	1.744	0.630	3.118	3.201	0.547	0.508	3
AL1000N	1000 MCM	—	Brown	1/2	1.750	1.831	1.170	7.437	2.500	0.750	3.219	2.562	0.687	0.508	1

CONNECTORS

Compression Connectors

Dual Rated, Aluminum Splice

ASC-T Series

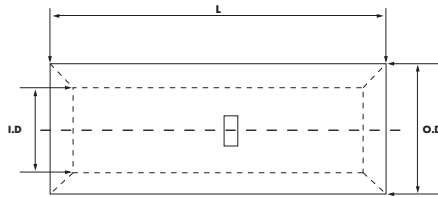


FEATURES

- Produced from high conductivity aluminum tubing.
- Center stop assures proper cable installation.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed to cable manufactures specifications.

SPECIFICATIONS

- cULus Listed for Wire Connector.
- UL486A/B Listed for Wire Connector.
- UL Listed to 35kV when properly installed to cable manufactures specifications.
- Temperature Rating: 90 °C. AL9CU
- Crimp Tool: N1240, N121D.
- Voltage: 600V max. (2000V max. per UL486B).



***EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 90

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	O.D.	I.D.	LENGTH (L)	STD. CTN. QTY.
ASC8T	8 AWG	8 AWG	Blue	0.297	0.146	1.750	100
ASC6T	6 AWG	6-8 AWG	Gray	0.339	0.197	1.630	24
ASC4T	4 AWG	4-6 AWG	Green	0.437	0.248	2.000	24
ASC2T	2 AWG	2-6 AWG	Pink	0.528	0.307	2.378	24
ASC1T	1 AWG	1-6 AWG	Gold	0.528	0.347	2.378	24
ASC1/OT	1/0 AWG	1/0-6 AWG	Tan	0.630	0.390	2.500	24
ASC2/OT	2/0 AWG	2/0-4 AWG	Olive	0.689	0.440	2.630	12
ASC3/OT	3/0 AWG	3/0-2 AWG	Ruby	0.760	0.480	2.878	12
ASC4/OT	4/0 AWG	4/0-1 AWG	White	0.839	0.550	3.130	12
ASC250T	250 MCM	250 MCM-1/0 AWG	Red	0.920	0.590	3.248	12
ASC300T	300 MCM	300 MCM-2/0 AWG	Blue	1.010	0.650	3.248	6
ASC350T	350 MCM	350MCM-3/0 AWG	Brown	1.120	0.720	3.878	6
ASC400T	400 MCM	400MCM-4/0 AWG	Green	1.190	0.760	4.878	6
ASC500T	500 MCM	500-250 MCM	Pink	1.320	0.840	5.000	6
ASC600T	600 MCM	600-250 MCM	Black	1.440	0.920	5.130	6
ASC750T	750 MCM	750-500 MCM	Yellow	1.600	1.030	5.378	3
ASC1000T	1000 MCM	—	Brown	1.844	1.153	5.250	3

CONNECTORS

Compression Connectors

Bi-Metallic Pin Terminals

PT Series

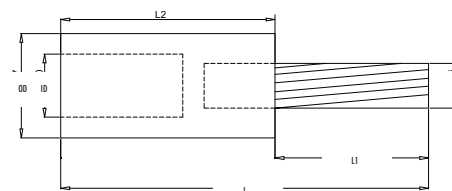
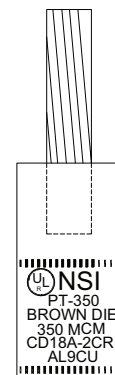


SPECIFICATIONS

- UL486A/B Listed for Wire Connector.
- Temperature Rating: 90 °C. AL9.
- Crimp Tool: N1240.
- Voltage: 600V max.

FEATURES

- Designed to facilitate termination of aluminum conductors.
- Pin: Stranded copper, tin plated.
- Supplied with PVC insulating cover.
- Connector bores are coated with oxide inhibitor.



CAT. NO.	WIRE RANGE	COLOR CODE	PIN SIZE	O.D.	I.D.	PIN DIA. (A)	LENGTH (L)	PIN LENGTH (L1)	BODY LENGTH (L2)	STD. CTN. QTY.
PT6	6 AWG	—	# 8	0.639	0.186	0.144	2.125	0.875	1.250	25
PT4	4 AWG	Tan	# 6	0.630	0.236	0.188	2.450	0.913	1.540	25
PT2	2 AWG	Tan	# 4	0.641	0.311	0.228	2.440	0.913	1.527	25
PT1	1 AWG	Tan	# 3	0.630	0.350	0.279	2.539	1.003	1.530	10
PT1/0	1/0 AWG	Tan	# 2	0.900	0.366	0.287	3.405	1.259	2.140	10
PT2/0	2/0 AWG	White	# 1	0.900	0.429	0.322	3.342	1.251	2.090	10
PT3/0	3/0 AWG	White	1/0	0.900	0.484	0.362	3.598	1.456	2.140	10
PT4/0	4/0 AWG	White	2/0	0.900	0.547	0.405	3.523	1.464	2.050	10
PT250	250 MCM	Brown	3/0	1.160	0.653	0.440	3.858	1.551	2.300	10
PT300	300 MCM	Brown	4/0	1.160	0.653	0.523	4.086	1.696	2.389	10
PT350	350 MCM	Brown	4/0	1.157	0.700	0.496	4.082	1.704	2.377	10
PT400	400 MCM	Pink	250	1.330	0.759	0.582	4.362	1.984	2.377	10
PT500	500 MCM	Pink	350	1.330	0.759	0.681	4.192	1.842	2.350	10
PT600	600 MCM	Yellow	350	1.503	0.921	0.688	4.960	1.897	3.051	3
PT750	750 MCM	Yellow	500	1.500	1.015	0.787	5.007	2.003	3.015	3

CONNECTORS

Compression Connectors

Dual Rated Pin Terminals

PTS, PTO Series



SPECIFICATIONS

- UL486A/B Listed for Wire Connector Adapter.
- Temperature Rating: 90 °C, AL9CU
- Crimp Tool: N1240.
- Voltage: 600V max.

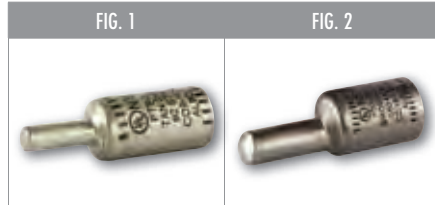
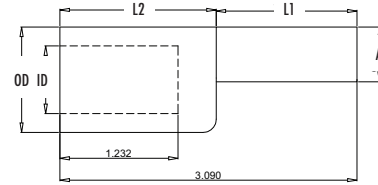
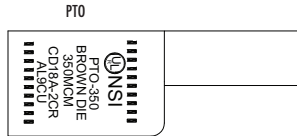
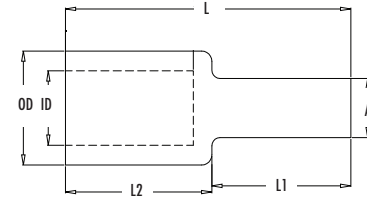
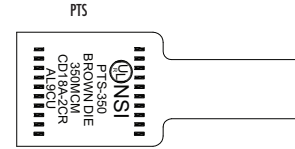
FEATURES

Solid Pin Terminals - PTS Series (Centered Pin)

- All-aluminum pin terminal designed for termination of both aluminum and copper conductors. The pin is solid aluminum. The connector is tin plated to provide low contact resistance and oxidation protection. Connector is pre-filled with Oxide Inhibitor and capped with color coded cap indicating color of die to use. A cover is provided for quick installation.

Solid Pin Terminals - PTO Series (Offset Pin)

- All-aluminum pin terminal designed for termination of both aluminum and copper conductors. In addition to above the PTO Series provides an offset termination pin. Pin is offset for use in tight applications while providing ease of installation in side by side applications. The solid pin is made of aluminum and is tin-plated and pre-filled with oxide inhibitor. Great for paralleling cable. A cover is provided for quick insulation.



CAT. NO.	FIG. NO.	WIRE RANGE	COLOR CODE	PIN SIZE	O.D.	I.D.	PIN DIA. (A)	LENGTH (L)	PIN LENGTH (L1)	BODY LENGTH (L2)	STD. CTN. QTY.
PTS6	1	6 STR	Tan	4	0.598	0.220	0.240	1.850	0.681	1.169	25
PTS4	1	4 STR	Tan	4	0.598	0.236	0.240	1.850	0.681	1.169	25
PTS2	1	2 STR	Tan	4	0.598	0.299	0.240	1.840	0.680	1.160	25
PTS1	1	1 STR	Tan	3	0.598	0.318	0.250	1.990	0.830	1.160	10
PTS1/0	1	1/0 STR	Tan	2	0.598	0.370	0.290	1.990	0.830	1.160	10
PTS2/0	1	2/0 STR	White	1	0.850	0.429	0.330	2.200	0.830	1.370	10
PTS3/0	1	3/0 STR	White	1/0	0.850	0.476	0.370	2.590	1.220	1.370	10
PTS4/0	1	4/0 STR	White	2/0	0.850	0.535	0.420	2.590	1.220	1.370	10
PTS250	1	250 MCM	Brown	3/0	1.090	0.594	0.460	2.620	1.220	1.400	10
PTS300	1	300 MCM	Brown	4/0	1.090	0.653	0.530	2.730	1.330	1.400	10
PTS350	1	350 MCM	Brown	250	1.090	0.716	0.570	2.730	1.330	1.400	10
PTS400	1	400 MCM	Pink	300	1.310	0.763	0.620	3.070	1.590	1.480	10
PTS500	1	500 MCM	Pink	350	1.310	0.826	0.680	3.070	1.590	1.480	10
PTS600	1	600 MCM	Yellow	400	1.460	0.921	0.720	3.670	1.640	2.030	3
PTS750	1	750 MCM	Yellow	500	1.460	1.027	0.810	3.780	1.750	2.030	3
PTO-2/0	2	2/0 AWG	White	1	0.850	0.440	0.330	2.690	1.120	1.570	10
PTO-3/0	2	3/0 AWG	White	1/0	0.850	0.500	0.370	2.800	1.250	1.550	10
PTO-4/0	2	4/0 AWG	White	2/0	0.850	0.547	0.420	2.780	1.270	1.510	10
PTO-250	2	250 MCM	Brown	3/0	1.090	0.594	0.460	2.780	1.270	1.510	10
PTO-300	2	300 MCM	Brown	4/0	1.090	0.657	0.530	3.080	1.460	1.620	10
PTO-350	2	350 MCM	Brown	250	1.090	0.704	0.570	3.080	1.460	1.620	10
PTO-400	2	400 MCM	Pink	300	1.310	0.763	0.620	3.380	1.680	1.700	10
PTO-500	2	500 MCM	Pink	350	1.310	0.842	0.680	3.380	1.680	1.700	10
PTO-600	2	600 MCM	Yellow	400	1.460	0.821	0.720	3.990	1.720	2.270	3
PTO-750	2	750 MCM	Yellow	500	1.460	1.031	0.810	4.180	1.720	2.460	3

CONNECTORS

Compression Connectors

Dual Rated, Wide Range Tap Connectors

WRD Series



SPECIFICATIONS

- Voltage: 600V.

FEATURES

- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

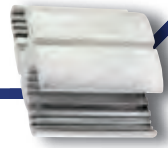
FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 92

CAT. NO.	STANDARD CONDUCTOR RANGE						COMPACT CONDUCTOR				STD. CTN. QTY.
	A GROOVE			B GROOVE			A GROOVE		B GROOVE		
	ACSR	STR	SOL	ACSR	STR	SOL	ACSR	STR	ACSR	STR	
WRD159	-	1	-	-	1	-	1	1	1	1	25
	2	2	2	2	2	2	2	2	2	2	25
	3	3	3	3	3	3	3	3	3	3	25
	4	4	4	4	4	4	4	4	4	4	25
	6	6	6	6	6	6	6	6	6	6	25
WRD189	-	-	3/0	-	-	1/0	-	-	-	-	25
	-	2/0	2/0	-	1	1	2/0	2/0	1	1	25
	1/0	1/0	1/0	2	2	1/0	1/0	2	2	-	25
	1	1	1	3	3	3	1	1	3	3	25
	2	2	-	4	4	4	2	2	4	4	25
	3	-	-	6	6	6	-	-	6	6	25
WRD279	-	-	4/0	-	3/0	3/0	-	-	-	-	25
	-	3/0	3/0	2/0	2/0	2/0	3/0	3/0	3/0	3/0	25
	2/0	2/0	2/0	1/0	1/0	-	2/0	2/0	2/0	2/0	25
	1/0	4/0	-	1	-	-	1/0	1/0	1/0	1/0	25
	1	-	-	-	-	-	-	-	-	-	25
	-	-	-	-	-	1/0	-	-	-	-	25
WRD289	-	-	-	-	1	1	-	-	1	1	25
	-	-	4/0	2	2	2	3/0	3/0	2	2	25
	-	3/0	3/0	3	3	3	2/0	-	3	3	25
	2/0	2/0	-	4	4	4	-	-	4	4	25
	1/0	-	-	6	6	6	-	-	6	6	25
	-	-	-	-	-	1/0	-	-	-	-	25
WRD379	-	-	-	-	1	1	-	-	1	1	25
	-	-	-	2	2	2	266-18/1	266	2	2	25
	4/0	4/0	-	3	3	3	250	250	3	3	25
	3/0	-	-	4	4	4	4/0	4/0	4	4	25
	-	-	-	6	6	6	-	-	6	6	25
	-	-	-	-	-	3/0	266-18/1	266	-	-	25
WRD399	-	-	-	2/0	2/0	2/0	-	250	-	3/0	25
	4/0	4/0	-	1/0	1/0	-	4/0	4/0	2/0	2/0	25
	3/0	3/0	-	1	-	-	3/0	-	1/0	1/0	25
	-	-	-	-	-	-	266-18/1	266-18/1	266-18/1	266	25
WRD419	4/0	4/0	-	4/0	4/0	-	-	250	-	250	25
	3/0	3/0	-	3/0	3/0	-	4/0	4/0	4/0	4/0	25

CONNECTORS

Compression Connectors

Dual Rated, Wide Range Tap Connectors
WRD Series Cont'd



SPECIFICATIONS

- Voltage: 600V.

FEATURES

- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 92

CAT. NO.	STANDARD CONDUCTOR RANGE						COMPACT CONDUCTOR				STD. CTN. QTY.
	A GROOVE			B GROOVE			A GROOVE		B GROOVE		
	ACSR	STR	SOL	ACSR	STR	SOL	ACSR	STR	ACSR	STR	
WRD9	-	-	1	-	8	8	-	-	-	-	50
	3	2	2	-	10	10	-	-	-	-	50
	4	3	3	-	12	12	-	-	-	-	50
	6	4	4	-	14	14	-	-	-	-	50
	6	-	-	-	-	-	-	-	-	-	50
WRD139	-	2/0	-	-	-	-	-	-	-	-	25
	1/0	1/0	-	-	-	-	-	-	-	-	25
	1	1	1	-	-	6	-	-	-	-	25
	2	2	2	-	-	-	-	-	-	-	25
	3	3	-	-	10	10	-	-	-	-	25
WRD149	4	-	-	-	-	-	-	-	-	-	25
	-	-	2	-	-	2	-	2	-	2	25
	-	3	3	-	3	3	-	3	3	3	25
	4	4	4	4	4	4	4	4	4	4	25
	6	6	6	6	6	6	6	6	6	6	25
WRD179	1/0	1/0	-	-	-	2	-	2/0	-	2	25
	1	1	1	-	3	3	1/0	1/0	-	3	25
	2	2	-	4	4	4	1	1	4	4	25
	3	-	-	6	6	6	2	2	6	6	25
WRD199	1/0	1/0	-	-	1	1	-	2/0	1	1	25
	1	1	1	2	2	2	1/0	1/0	2	2	25
	2	2	-	3	3	-	1	1	3	-	25
	3	-	-	4	4	-	2	2	4	-	25
WRD219	1/0	1/0	-	1/0	1/0	-	-	2/0	-	2/0	25
	1	1	-	1	1	-	1/0	1/0	1/0	1/0	25
	-	-	-	2	-	-	-	-	1	-	25
WRD259	-	2/0	-	-	2/0	-	2/0	2/0	2/0	2/0	25
	1/0	1/0	-	1/0	1/0	-	1/0	1/0	1/0	1/0	25
	1	-	-	1	-	-	-	-	-	-	25
WRD299	-	3/0	-	-	-	2	3/0	3/0	-	2	25
	2/0	2/0	-	-	3	3	2/0	-	-	3	25
	1/0	-	-	4	4	4	-	-	4	4	25
	-	-	-	6	6	6	-	-	6	6	25
WRD359	-	-	-	-	1/0	-	-	-	-	-	25
	4/0	4/0	-	1	1	1	266	266	1/0	1/0	25
	3/0	3/0	-	2	2	-	-	250	1	1	25
	-	-	-	3	3	-	4/0	4/0	2	2	25
WRD369	-	-	-	4	-	-	3/0	-	-	-	25
	4/0	4/0	-	1/0	1/0	1/0	266	266	1/0	1/0	25
	3/0	3/0	-	1	1	1	-	250	1	1	25
	2/0	-	-	2	2	2	4/0	4/0	2	2	25
	-	-	-	3	3	-	3/0	3/0	3	-	25
WRD389	-	-	-	4	4	-	-	-	4	-	25
	-	-	-	-	-	-	266	266	-	-	25
	4/0	4/0	-	-	3/0	-	-	250	3/0	3/0	25
	3/0	3/0	-	2/0	2/0	-	4/0	4/0	2/0	-	25
	-	-	-	1/0	-	-	3/0	-	-	-	25

CONNECTORS
Compression Connectors
Dual Rated Insulating Covers
C Series



FEATURES

- Hinged polyurethane cover for easy installation of WRD series tap connectors.
- Eliminates taping.
- Drain ports prevent accumulation of moisture. Ultraviolet stabilized.

CAT. NO.	CAPACITY	STD. CTN. QTY.
C2	All 5/8" OD. Sleeve 2" long or less	12
C5	All "O" die taps 1 3/4" long or less	12
C7	All "D" die taps 2 1/2" long or less	6
C9	All "N" die taps up to 2" long	4

CONNECTORS

Compression Connectors

Dual Rated Meter Socket Lugs
CAL Series

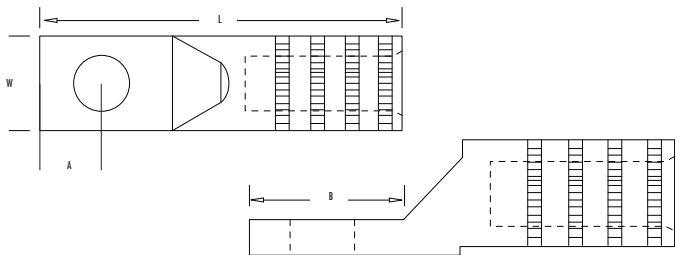


SPECIFICATIONS

- Voltage: 600V max.

FEATURES

- Made of dead-soft EC grade aluminum.
- 840 common dies — one die installs on all sizes. For aluminum or copper conductors.
- Pre-filled with oxide inhibitor.
- Installing dies (color red): .840, 18, 324, TX, 76, 11A, 249.



CAT. NO.	CONDUCTOR			BOLT SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	TANG LENGTH (B) (IN.)	STD. CTN. QTY.
	STRANDED	SOLID	COMPACT					
CAL4	4	3	4	3/8	3.250	0.904	1.3125	12
CAL2	2	1	2	3/8	3.250	0.904	1.3125	12
CAL1-48	1	1/0	1	1/2	3.250	0.904	1.3125	12
CAL10	1/0	2/0	1/0	3/8	3.250	0.904	1.3125	12
CAL20	2/0	3/0	2/0	3/8	3.250	0.904	1.3125	12
CAL20-48	2/0	3/0	2/0	1/2	3.250	0.904	1.3125	12
CAL30-48	3/0	4/0	3/0	1/2	3.250	0.904	1.3125	12
CAL40	4/0	—	4/0	3/8	3.250	0.904	1.3125	12
CAL40-48	4/0	—	4/0	1/2	3.250	0.904	1.3125	12

CONNECTORS

Compression Connectors

Dual Rated Insulated Service Entrance Sleeves

ISE Series

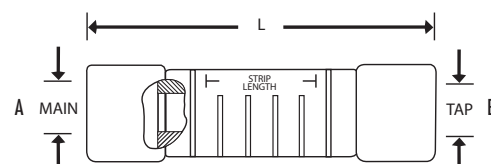


SPECIFICATIONS

- Meets or exceeds ANSI C119.4.
- **Voltage:** 600V max.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..

FEATURES

- Pre-insulated service entrance compression sleeves for fast and easy installation with standard tools and dies.
- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Solid center barrier.



CAT. NO.	DIE SIZE (IN.)	TOOL	A - CONDUCTOR RANGE			B - CONDUCTOR RANGE			LENGTH (L) (IN.)	STD. CTN. QTY.
			ACSR	AWG (*COMPACT)	COLOR CODE	ACSR	AWG	COLOR CODE		
ISE61	5/8	OD581	—	8 STR-6 SOL	Green	—	8 STR-6 SOL	Green	2.780	50
ISE62	5/8	OD581	6	6 STR-4 SOL	Blue	—	10 STR-8 SOL	Brown	2.780	50
ISE63	5/8	OD581	6	6 STR-4 SOL	Blue	—	8 STR-6 SOL	Green	2.780	50
ISE64	5/8	OD581	6	6 STR-4 SOL	Blue	6	6 STR-4 SOL	Blue	2.780	50
ISE65	5/8	OD581	4	3-4 STR-2 SOL	Orange	—	10 STR-8 SOL	Brown	2.780	50
ISE66	5/8	OD581	4	3-4 STR-2 SOL	Orange	—	8 STR-6 SOL	Green	2.780	50
ISE67	5/8	OD581	4	3-4 STR-2 SOL	Orange	6	6 STR-4 SOL	Blue	2.780	50
ISE68	5/8	OD581	4	3-4 STR-2 SOL	Orange	4	3-4 STR-2 SOL	Orange	2.780	50
ISE71	5/8	OD581	2	1-2 STR	Red	6	6 STR-4 SOL	Blue	2.780	50
ISE72	5/8	OD581	2	1-2 STR	Red	4	3-4 STR-2 SOL	Orange	2.780	50
ISE73	5/8	OD581	2	1-2 STR	Red	2	1-2 STR	Red	2.780	50
ISE76	5/8	OD581	1/0	1/0	Yellow	4	3-4 STR-2 SOL	Orange	2.780	50
ISE77	5/8	OD581	1/0	1/0	Yellow	2	1-2 STR	Red	2.780	50
ISE78	5/8	OD581	1/0	1/0	Yellow	—	1/0 STR	Yellow	2.780	50
ISE135	0.840	OD581+BY377C	1/0	1/0, 2/0 STR*	Yellow	2	1-2 STR	Red	5.500	12
ISE136	0.840	OD581+BY377C	1/0	1/0, 2/0 STR*	Yellow	1/0	1/0 STR, 2/0 COM	Yellow	5.500	12
ISE144	0.840	OD581+BY377C	2/0	2/0, 3/0 STR*	Gray	4	3-4 STR-2 SOL	Orange	5.500	12
ISE145	0.840	OD581+BY377C	2/0	2/0, 3/0 STR*	Gray	2	1-2 STR	Red	5.500	12
ISE146	0.840	OD581+BY377C	2/0	2/0, 3/0 STR*	Gray	1/0	1/0 STR, 2/0 COM	Yellow	5.500	12
ISE147	0.840	OD581+BY377C	2/0	2/0, 3/0 STR*	Gray	2/0	2/0 STR, 3/0 COM	Gray	5.500	12
ISE154	0.840	OD581+BY377C	3/0	3/0, 4/0 STR*	Black	4	3-4 STR, 2 SOL	Orange	5.500	12
ISE155	0.840	OD581+BY377C	3/0	3/0, 4/0 STR*	Black	2	1-2 STR	Red	5.500	12
ISE156	0.840	OD581+BY377C	3/0	3/0, 4/0 STR*	Black	1/0	1/0 STR, 2/0 COM	Yellow	5.500	12
ISE158	0.840	OD581+BY377C	3/0	3/0, 4/0 STR*	Black	3/0	3/0 STR, 4/0 COM	Black	5.500	12
ISE164	0.840	OD581+BY377C	4/0	4/0 STR	Pink	4	3-4 STR-2 SOL	Orange	5.500	12
ISE165	0.840	OD581+BY377C	4/0	4/0 STR	Pink	2	1-2 STR	Red	5.500	12
ISE167	0.840	OD581+BY377C	4/0	4/0 STR	Pink	2/0	2/0 STR, 3/0 COM	Gray	5.500	12
ISE168	0.840	OD581+BY377C	4/0	4/0 STR	Pink	3/0	3/0 STR, 4/0 COM	Black	5.500	12
ISE169	0.840	OD581+BY377C	4/0	4/0 STR	Pink	4/0	4/0 STR	Pink	5.500	12

CONNECTORS

Compression Connectors

Long Barrel One Hole Copper Lugs L Series

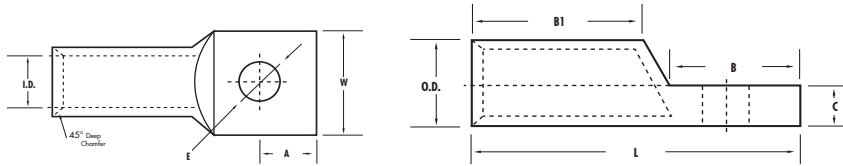


FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable Manufacturer voltage stress relief instructions.
- **Part Numbers ending in "P" have a "peep" or sight inspection hole.**

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V



***EXPANDED WIRE RANGE** when installed with NSI NT2ID dieless compression tool.
UL Listed with other tools:
FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE**	BOLT SIZE (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W) (IN.)	A (IN.)	B (IN.)	B1 (IN.)	C (IN.)	E (IN.)	COLOR	STD. CTN. QTY.
L810	8 AWG	8 - 10 AWG	#10	0.205	0.295	1.520	0.420	0.280	0.590	0.810	0.080	0.210	Red	100
L810P	8 AWG	8 - 10 AWG	#10	0.205	0.295	1.520	0.420	0.280	0.590	0.810	0.080	0.210	Red	100
L814	8 AWG	8 - 10 AWG	1/4"	0.205	0.295	1.520	0.420	0.280	0.590	0.810	0.080	0.252	Red	100
L814P	8 AWG	8 - 10 AWG	1/4"	0.205	0.295	1.520	0.420	0.280	0.590	0.810	0.080	0.252	Red	100
L838	8 AWG	8 - 10 AWG	3/8"	0.205	0.295	1.520	0.420	0.280	0.590	0.810	0.080	0.413	Red	100
L838P	8 AWG	8 - 10 AWG	3/8"	0.205	0.295	1.520	0.420	0.280	0.590	0.810	0.080	0.413	Red	100
L610	6 AWG	6 - 8 AWG	#10	0.205	0.295	1.770	0.420	0.300	0.640	0.980	0.083	0.210	Blue	100
L614	6 AWG	6 - 8 AWG	1/4"	0.205	0.295	1.772	0.421	0.295	0.669	0.984	0.083	0.252	Blue	100
L614P	6 AWG	6 - 8 AWG	1/4"	0.205	0.295	1.772	0.421	0.295	0.669	0.984	0.083	0.252	Blue	100
L638	6 AWG	6 - 8 AWG	3/8"	0.205	0.295	1.913	0.591	0.370	0.811	0.984	0.083	0.413	Blue	100
L638P	6 AWG	6 - 8 AWG	3/8"	0.205	0.295	1.913	0.591	0.370	0.811	0.984	0.083	0.413	Blue	100
L656	6 AWG	6 - 8 AWG	5/16"	0.205	0.295	1.910	0.590	0.370	0.810	0.980	0.083	0.330	Blue	100
L656P	6 AWG	6 - 8 AWG	5/16"	0.205	0.295	1.910	0.590	0.370	0.810	0.980	0.083	0.330	Blue	100
L410	4 AWG	4 - 6 AWG	#10	0.252	0.343	1.770	0.488	0.315	0.669	0.980	0.087	0.210	Gray	100
L414	4 AWG	4 - 6 AWG	1/4"	0.252	0.343	1.772	0.488	0.315	0.669	0.984	0.087	0.252	Gray	100
L414P	4 AWG	4 - 6 AWG	1/4"	0.252	0.343	1.772	0.488	0.315	0.669	0.984	0.087	0.252	Gray	100
L438	4 AWG	4 - 6 AWG	3/8"	0.252	0.343	1.913	0.591	0.370	0.811	0.984	0.087	0.413	Gray	100
L438P	4 AWG	4 - 6 AWG	3/8"	0.252	0.343	1.913	0.591	0.370	0.811	0.984	0.087	0.413	Gray	100
L456	4 AWG	4 - 6 AWG	5/16"	0.252	0.343	1.772	0.488	0.315	0.669	0.984	0.087	0.331	Gray	100
L456P	4 AWG	4 - 6 AWG	5/16"	0.252	0.343	1.772	0.488	0.315	0.669	0.984	0.087	0.331	Gray	100
L314	3 AWG	3 - 6 AWG	1/4"	0.270	0.377	2.344	0.531	0.323	0.828	1.169	0.097	0.277	White	100
L356	3 AWG	3 - 6 AWG	5/16"	0.270	0.377	2.157	0.538	0.346	0.767	1.120	0.091	0.336	White	50

CONNECTORS

Compression Connectors

Long Barrel One Hole Copper Lugs

L Series Cont'd



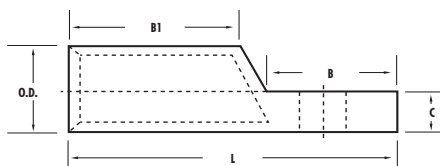
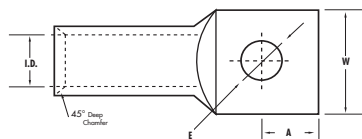
SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V

FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable Manufacturer for voltage stress relief instructions.

- Part Numbers ending in "P" have a "peep" or sight inspection hole.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE**	BOLT SIZE (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W) (IN.)	A (IN.)	B (IN.)	B1 (IN.)	C (IN.)	E (IN.)	COLOR	STD. CTN. QTY.
L356	3 AWG	3 - 6 AWG	5/16"	0.270	0.377	2.157	0.538	0.346	0.767	1.120	0.091	0.336	White	50
L388	3 AWG	3 - 6 AWG	3/8"	0.270	0.377	2.351	0.550	0.418	0.823	1.188	0.083	0.397	White	50
L214	2 AWG	2 - 6 AWG	1/4"	0.315	0.421	2.071	0.602	0.206	0.811	1.102	0.102	0.252	Brown	50
L214P	2 AWG	2 - 6 AWG	1/4"	0.315	0.421	2.071	0.602	0.206	0.811	1.102	0.102	0.252	Brown	50
L256	2 AWG	2 - 6 AWG	5/16"	0.315	0.421	2.071	0.602	0.370	0.811	1.102	0.102	0.331	Brown	50
L256P	2 AWG	2 - 6 AWG	5/16"	0.315	0.421	2.071	0.602	0.370	0.811	1.102	0.102	0.331	Brown	50
L238	2 AWG	2 - 6 AWG	3/8"	0.315	0.421	2.071	0.602	0.370	0.811	1.102	0.102	0.413	Brown	50
L238P	2 AWG	2 - 6 AWG	3/8"	0.315	0.421	2.071	0.602	0.370	0.811	1.102	0.102	0.413	Brown	50
L156	1 AWG	1 - 6 AWG	5/16"	0.358	0.469	2.110	0.673	0.370	0.811	1.102	0.106	0.331	Green	50
L138	1 AWG	1 - 6 AWG	3/8"	0.358	0.469	2.209	0.673	0.370	0.811	1.102	0.106	0.413	Green	50
L1014	1/0 AWG	1/0 - 6 AWG	1/4"	0.390	0.520	2.210	0.744	0.370	0.811	1.201	0.126	0.210	Pink	50
L1014P	1/0 AWG	1/0 - 6 AWG	1/4"	0.390	0.520	2.210	0.744	0.370	0.811	1.201	0.126	0.210	Pink	50
L1038	1/0 AWG	1/0 - 6 AWG	3/8"	0.390	0.520	2.209	0.744	0.370	0.811	1.201	0.126	0.413	Pink	50
L1038P	1/0 AWG	1/0 - 6 AWG	3/8"	0.390	0.520	2.209	0.744	0.370	0.811	1.201	0.126	0.413	Pink	50
L1056	1/0 AWG	1/0 - 6 AWG	5/16"	0.390	0.520	2.210	0.744	0.370	0.811	1.201	0.126	0.330	Pink	50
L1056P	1/0 AWG	1/0 - 6 AWG	5/16"	0.390	0.520	2.210	0.744	0.370	0.811	1.201	0.126	0.330	Pink	50
L1048	1/0 AWG	1/0 - 6 AWG	1/2"	0.390	0.520	2.500	0.744	0.472	1.063	1.201	0.126	0.512	Pink	50
L2014	2/0 AWG	2/0 - 4 AWG	1/4"	0.441	0.563	2.677	0.815	0.472	1.063	1.378	0.118	0.252	Black	25
L2014P	2/0 AWG	2/0 - 4 AWG	1/4"	0.441	0.563	2.677	0.815	0.472	1.063	1.378	0.118	0.252	Black	25
L2038	2/0 AWG	2/0 - 4 AWG	3/8"	0.441	0.563	2.677	0.815	0.472	1.063	1.378	0.118	0.413	Black	25
L2038P	2/0 AWG	2/0 - 4 AWG	3/8"	0.441	0.563	2.677	0.815	0.472	1.063	1.378	0.118	0.413	Black	25
L2048	2/0 AWG	2/0 - 4 AWG	1/2"	0.441	0.563	2.677	0.815	0.472	1.063	1.378	0.118	0.512	Black	25

CONNECTORS

Compression Connectors

Long Barrel One Hole Copper Lugs L Series Cont'd

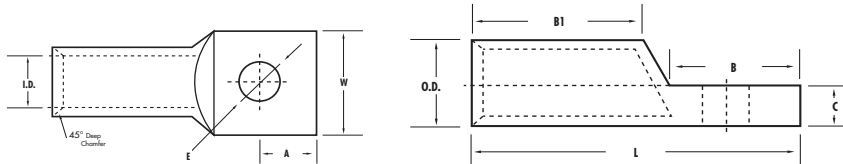


FEATURES

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- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable Manufacturer voltage stress relief instructions.
- **Part Numbers ending in "P" have a "peep" or sight inspection hole.**

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V



***EXPANDED WIRE RANGE** when installed with NSI N12/D dieless compression tool.
UL Listed with other tools:
FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

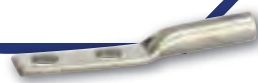
CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE**	BOLT SIZE (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W) (IN.)	A (IN.)	B (IN.)	B1 (IN.)	C (IN.)	E (IN.)	COLOR	STD. CTN. QTY.
L2048P	2/0 AWG	2/0 - 4 AWG	1/2"	0.441	0.563	2.677	0.815	0.472	1.063	1.378	0.118	0.512	Black	25
L3014	3/0 AWG	3/0 - 2 AWG	1/4"	0.492	0.622	2.795	0.902	0.472	1.063	1.378	0.126	0.252	Orange	25
L3014P	3/0 AWG	3/0 - 2 AWG	1/4"	0.492	0.622	2.795	0.902	0.472	1.063	1.378	0.126	0.252	Orange	25
L3038	3/0 AWG	3/0 - 2 AWG	3/8"	0.492	0.622	2.795	0.902	0.472	1.063	1.378	0.126	0.413	Orange	25
L3038P	3/0 AWG	3/0 - 2 AWG	3/8"	0.492	0.622	2.795	0.902	0.472	1.063	1.378	0.126	0.413	Orange	25
L3048	3/0 AWG	3/0 - 2 AWG	1/2"	0.492	0.622	2.795	0.902	0.472	1.063	1.378	0.126	0.512	Orange	25
L3048P	3/0 AWG	3/0 - 2 AWG	1/2"	0.492	0.622	2.795	0.902	0.472	1.063	1.378	0.126	0.512	Orange	25
L4014	4/0 AWG	4/0 - 1 AWG	1/4"	0.547	0.689	2.795	1.000	0.520	1.063	1.417	0.134	0.252	Purple	25
L4014P	4/0 AWG	4/0 - 1 AWG	1/4"	0.547	0.689	2.795	1.000	0.520	1.063	1.417	0.134	0.252	Purple	25
L4038	4/0 AWG	4/0 - 1 AWG	3/8"	0.547	0.689	2.795	1.000	0.520	1.063	1.417	0.134	0.413	Purple	25
L4038P	4/0 AWG	4/0 - 1 AWG	3/8"	0.547	0.689	2.795	1.000	0.520	1.063	1.417	0.134	0.413	Purple	25
L4048	4/0 AWG	4/0 - 1 AWG	1/2"	0.547	0.689	2.795	1.000	0.520	1.063	1.417	0.134	0.512	Purple	25
L4048P	4/0 AWG	4/0 - 1 AWG	1/2"	0.547	0.689	2.795	1.000	0.520	1.063	1.417	0.134	0.512	Purple	25
L25048	250 MCM	250 MCM - 1/0 AWG	1/2"	0.594	0.752	3.031	1.091	0.520	1.063	1.614	0.150	0.512	Yellow	25
L30048	300 MCM	300 MCM - 2/0 AWG	1/2"	0.657	0.815	3.386	1.189	0.520	1.063	1.969	0.150	0.512	White	12
L35048	350 MCM	350 MCM - 3/0 AWG	1/2"	0.701	0.874	3.465	1.276	0.520	1.063	1.969	0.165	0.512	Red	12
L40048	400 MCM	400 MCM - 4/0 AWG	1/2"	0.764	0.949	3.858	1.386	0.512	1.378	1.969	0.177	0.512	Blue	6
L50048	500 MCM	500 - 250 MCM	1/2"	0.835	1.063	4.134	1.539	0.512	1.378	2.244	0.217	0.512	Brown	6
L50058	500 MCM	500 - 250 MCM	5/8"	0.835	1.063	4.134	1.539	0.512	1.378	2.244	0.217	0.669	Brown	6
L60058	600 MCM	600 - 250 MCM	5/8"	0.925	1.189	4.252	1.717	0.689	1.457	2.244	0.252	0.669	Green	6
L75048	750 MCM	750 - 500 MCM	1/2"	1.031	1.311	5.157	1.902	0.689	1.850	2.638	0.268	0.512	Black	3
L75058	750 MCM	750 - 500 MCM	5/8"	1.031	1.311	5.157	1.902	0.689	1.850	2.638	0.268	0.669	Black	3
L10058	1000 MCM	-	5/8"	1.184	1.494	5.613	2.148	0.866	1.776	2.603	0.328	0.663	White	3

CONNECTORS

Compression Connectors

Long Barrel Copper Lugs Two Hole

LN Series



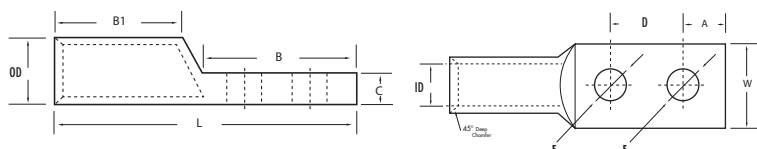
FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer voltage stress relief instructions.

- Part Numbers ending in "P" have a "peep" or sight inspection hole.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- 9CU.



***EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.

UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
L8N-14	8 AWG	8 - 10 AWG	Red	1/4"	1.000	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L8N-14P	8 AWG	8 - 10 AWG	Red	1/4"	1.000	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L8N-141	8 AWG	8 - 10 AWG	Red	1/4"	0.625	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L8N-141P	8 AWG	8 - 10 AWG	Red	1/4"	0.625	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L8N-142	8 AWG	8 - 10 AWG	Red	1/4"	0.750	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L8N-142P	8 AWG	8 - 10 AWG	Red	1/4"	0.750	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L8N-563	8 AWG	8 - 10 AWG	Blue	5/16"	1.750	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.312	100
L8N-563P	8 AWG	8 - 10 AWG	Blue	5/16"	1.750	0.205	0.295	2.240	0.420	0.280	1.140	0.980	0.080	0.312	100
L6N-12	6 AWG	6 - 8 AWG	Blue	1/4"	0.500	0.200	0.300	2.240	0.420	0.280	1.140	0.980	0.080	0.261	100
L6N-14	6 AWG	6 - 8 AWG	Blue	1/4"	0.625	0.200	0.300	2.360	0.420	0.280	1.260	0.980	0.080	0.261	100
L6N-14P	6 AWG	6 - 8 AWG	Blue	1/4"	0.625	0.200	0.300	2.360	0.420	0.280	1.260	0.980	0.080	0.261	100
L6N-141	6 AWG	6 - 8 AWG	Blue	1/4"	0.625	0.200	0.300	2.480	0.420	1.260	1.380	0.980	0.080	0.261	100
L6N-141P	6 AWG	6 - 8 AWG	Blue	1/4"	0.625	0.200	0.300	2.480	0.420	1.260	1.380	0.980	0.080	0.261	100
L6N-142	6 AWG	6 - 8 AWG	Blue	1/4"	0.750	0.200	0.300	2.480	0.420	0.280	1.380	0.980	0.080	0.261	100
L6N-143	6 AWG	6 - 8 AWG	Blue	1/4"	1.000	0.200	0.300	2.480	0.420	0.280	1.380	0.980	0.080	0.261	100
L6N-142P	6 AWG	6 - 8 AWG	Blue	1/4"	0.750	0.200	0.300	2.480	0.420	0.280	1.380	0.980	0.080	0.261	100
L6N-38	6 AWG	6 - 8 AWG	Blue	3/8"	1.000	0.200	0.300	2.910	0.420	0.380	1.810	0.980	0.080	0.410	100
L6N-38P	6 AWG	6 - 8 AWG	Blue	3/8"	1.000	0.200	0.300	2.910	0.420	0.380	1.810	0.980	0.080	0.410	100
L6N-382	6 AWG	6 - 8 AWG	Blue	3/8"	0.750	0.200	0.300	4.090	0.870	0.620	2.990	0.980	0.120	0.410	100
L6N-382P	6 AWG	6 - 8 AWG	Blue	3/8"	0.750	0.200	0.300	4.090	0.870	0.620	2.990	0.980	0.120	0.410	100
L6N	6 AWG	6 - 8 AWG	Blue	1/2"	1.750	0.200	0.300	4.090	0.870	0.620	2.990	0.980	0.120	0.510	100
L6NP	6 AWG	6 - 8 AWG	Blue	1/2"	1.750	0.200	0.300	4.090	0.870	0.620	2.990	0.980	0.120	0.510	100
L4N-14	4 AWG	4 - 6 AWG	Gray	1/4"	0.625	0.250	0.340	2.360	0.490	0.280	1.260	0.980	0.090	0.261	100

CONNECTORS

Compression Connectors

Long Barrel, Copper Lugs Two Hole LN Series Cont'd

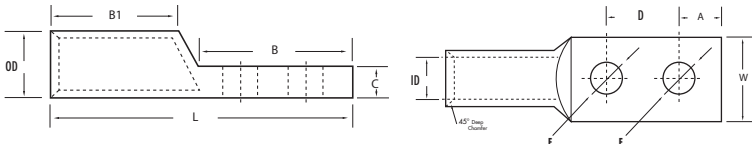


FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable Manufacturer for voltage stress relief instructions.
- **Part Numbers ending in "P" have a "peep" or sight inspection hole.**

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V.
- 9CU.



***EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.

UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
L4N-14P	4 AWG	4 - 6 AWG	Gray	1/4"	0.625	0.250	0.340	2.360	0.490	0.280	1.260	0.980	0.090	0.261	100
L4N-141	4 AWG	4 - 6 AWG	Gray	1/4"	0.625	0.250	0.340	2.95	0.420	0.380	1.810	0.980	0.90	0.261	100
L4N-141P	4 AWG	4 - 6 AWG	Gray	1/4"	0.625	0.250	0.340	2.950	0.420	0.380	1.810	0.980	0.090	0.261	100
L4N-142	4 AWG	4 - 6 AWG	Gray	1/4"	0.750	0.250	0.340	2.95	0.420	0.380	1.810	0.980	0.90	0.261	100
L4N-142P	4 AWG	4 - 6 AWG	Gray	1/4"	0.750	0.250	0.340	2.950	0.420	0.380	1.810	0.980	0.090	0.261	100
L4N-38	4 AWG	4 - 6 AWG	Gray	3/8"	1.000	0.250	0.340	2.950	0.420	0.380	1.810	0.980	0.090	0.410	100
L4N-38P	4 AWG	4 - 6 AWG	Gray	3/8"	1.000	0.250	0.340	2.950	0.420	0.380	1.810	0.980	0.090	0.410	100
L4N-382	4 AWG	4 - 6 AWG	Gray	3/8"	0.750	0.250	0.340	4.090	0.870	0.620	2.990	0.980	0.120	0.410	100
L4N-382P	4 AWG	4 - 6 AWG	Gray	3/8"	0.750	0.250	0.340	4.090	0.870	0.620	2.990	0.980	0.120	0.410	100
L4N	4 AWG	4 - 6 AWG	Gray	1/2"	1.750	0.250	0.340	4.090	0.870	0.620	2.990	0.980	0.120	0.510	100
L4N-P	4 AWG	4 - 6 AWG	Gray	1/2"	1.750	0.250	0.340	4.090	0.870	0.620	2.990	0.980	0.120	0.510	100
L2N-14	2 AWG	2 - 6 AWG	Brown	1/4"	1.000	0.310	0.420	2.520	0.600	0.280	1.260	1.100	0.100	0.252	50
L2N-14P	2 AWG	2 - 6 AWG	Brown	1/4"	1.000	0.310	0.420	2.520	0.600	0.280	1.260	1.100	0.100	0.252	50
L2N-141	2 AWG	2 - 6 AWG	Brown	1/4"	0.625	0.310	0.420	2.520	0.600	0.280	1.260	1.100	0.100	0.250	50
L2N-141P	2 AWG	2 - 6 AWG	Brown	1/4"	0.625	0.310	0.420	2.520	0.600	0.280	1.260	1.100	0.100	0.250	50
L2N-142	2 AWG	2 - 6 AWG	Brown	1/4"	0.750	0.310	0.420	2.640	0.600	0.280	1.380	1.100	0.100	0.250	50
L2N-38	2 AWG	2 - 6 AWG	Brown	3/8"	1.000	0.310	0.420	3.070	0.600	0.380	1.810	1.100	0.100	0.410	50
L2N-38P	2 AWG	2 - 6 AWG	Brown	3/8"	1.000	0.310	0.420	3.070	0.600	0.380	1.810	1.100	0.100	0.410	50
L2N-382	2 AWG	2 - 6 AWG	Brown	3/8"	0.750	0.310	0.420	4.250	0.810	0.620	2.990	1.100	0.100	0.410	50
L2N-382P	2 AWG	2 - 6 AWG	Brown	3/8"	0.750	0.310	0.420	4.250	0.810	0.620	2.990	1.100	0.100	0.410	50
L2N-383	2 AWG	2 - 6 AWG	Brown	3/8"	1.750	0.310	0.420	4.250	0.810	0.620	2.990	1.100	0.100	0.410	50
L2N-383P	2 AWG	2 - 6 AWG	Brown	3/8"	1.750	0.310	0.420	4.250	0.810	0.620	2.990	1.100	0.100	0.410	50
L2N-56	2 AWG	2 - 6 AWG	Brown	5/16"	0.750	0.310	0.420	2.870	0.600	0.320	1.610	1.100	0.100	0.330	50
L2N	2 AWG	2 - 6 AWG	Brown	1/2"	1.750	0.310	0.420	4.250	0.810	0.620	2.990	1.100	0.100	0.510	50
L2N-P	2 AWG	2 - 6 AWG	Brown	1/2"	1.750	0.310	0.420	4.250	0.810	0.620	2.990	1.100	0.100	0.510	50
L1N-141	1 AWG	1 - 6 AWG	Green	1/4"	0.630	0.360	0.470	2.560	0.670	0.280	1.260	1.100	0.110	0.250	50

CONNECTORS

Compression Connectors

Long Barrel, Copper Lugs Two Hole

LN Series Cont'd



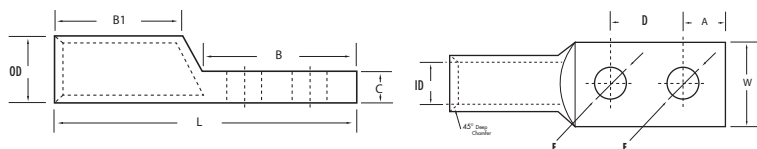
SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- 9CU.

FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, install to cable Manufacturer voltage stress relief instructions.

- Part Numbers ending in "P" have a "peep" or sight inspection hole.



***EXPANDED WIRE RANGE** when installed with NSI N12/D dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
L1N-38	1 AWG	1 - 6 AWG	Green	3/8"	1.000	0.360	0.470	3.070	0.670	0.380	1.810	1.100	0.110	0.410	50
L1N-56	1 AWG	1 - 6 AWG	Green	5/16"	0.870	0.360	0.470	2.930	0.670	0.320	1.610	1.100	0.110	0.330	50
L1N	1 AWG	1 - 6 AWG	Green	1/2"	1.750	0.360	0.470	4.290	0.750	0.620	2.990	1.100	0.100	0.510	50
L10N-14	1/0 AWG	1/0 - 6 AWG	Pink	1/4"	1.000	0.390	0.520	3.210	0.740	0.380	1.810	1.200	0.130	0.252	50
L10N-14P	1/0 AWG	1/0 - 6 AWG	Pink	1/4"	1.000	0.390	0.520	3.210	0.740	0.380	1.810	1.200	0.130	0.252	50
L10N-38	1/0 AWG	1/0 - 6 AWG	Pink	3/8"	1.000	0.390	0.520	3.210	0.740	0.380	1.810	1.200	0.130	0.410	50
L10N-38P	1/0 AWG	1/0 - 6 AWG	Pink	3/8"	1.000	0.390	0.520	3.210	0.740	0.380	1.810	1.200	0.130	0.410	50
L10N-382	1/0 AWG	1/0 - 6 AWG	Pink	3/8"	0.750	0.390	0.520	4.630	0.740	0.620	2.990	1.200	0.120	0.410	50
L10N-382P	1/0 AWG	1/0 - 6 AWG	Pink	3/8"	0.750	0.390	0.520	4.630	0.740	0.620	2.990	1.200	0.120	0.410	50
L10N-383	1/0 AWG	1/0 - 6 AWG	Pink	3/8"	1.750	0.390	0.520	4.630	0.740	0.620	2.990	1.200	0.120	0.410	50
L10N-383P	1/0 AWG	1/0 - 6 AWG	Pink	3/8"	1.750	0.390	0.520	4.630	0.740	0.620	2.990	1.200	0.120	0.410	50
L10N	1/0 AWG	1/0 - 6 AWG	Pink	1/2"	1.750	0.390	0.520	4.630	0.740	0.620	2.990	1.200	0.120	0.510	50
L10N-P	1/0 AWG	1/0 - 6 AWG	Pink	1/2"	1.750	0.390	0.520	4.630	0.740	0.620	2.990	1.200	0.120	0.510	50
L20N-14	2/0 AWG	2/0 - 4 AWG	Black	1/4"	0.625	0.440	0.560	2.990	0.810	0.280	1.380	1.380	0.120	0.252	25
L20N-141	2/0 AWG	2/0 - 4 AWG	Black	1/4"	0.625	0.440	0.560	2.990	0.810	0.280	1.380	1.380	0.120	0.252	25
L20N-141P	2/0 AWG	2/0 - 4 AWG	Black	1/4"	0.750	0.440	0.560	2.990	0.810	0.280	1.380	1.380	0.120	0.252	25
L20N-142	2/0 AWG	2/0 - 4 AWG	Black	1/4"	0.750	0.440	0.560	2.990	0.810	0.280	1.380	1.380	0.120	0.250	25
L20N-14P	2/0 AWG	2/0 - 4 AWG	Black	1/4"	0.625	0.440	0.560	2.990	0.810	0.280	1.380	1.380	0.120	0.252	25
L20N-38	2/0 AWG	2/0 - 4 AWG	Black	3/8"	1.000	0.440	0.560	3.430	0.810	0.380	1.810	1.380	0.120	0.410	25
L20N-38P	2/0 AWG	2/0 - 4 AWG	Black	3/8"	1.000	0.440	0.560	3.430	0.810	0.380	1.810	1.380	0.120	0.410	25
L20N-383	2/0 AWG	2/0 - 4 AWG	Black	3/8"	1.750	0.440	0.560	4.610	0.810	0.380	1.810	1.380	0.120	0.410	25
L20N-383P	2/0 AWG	2/0 - 4 AWG	Black	3/8"	1.750	0.440	0.560	4.610	0.810	0.380	1.810	1.380	0.120	0.410	25
L20N	2/0 AWG	2/0 - 4 AWG	Black	1/2"	1.750	0.440	0.560	4.610	0.810	0.620	2.990	1.380	0.120	0.510	25
L20NP	2/0 AWG	2/0 - 4 AWG	Black	1/2"	1.750	0.440	0.560	4.610	0.810	0.620	2.990	1.380	0.120	0.510	25
L30N-141	3/0 AWG	3/0 - 2 AWG	Orange	1/4"	0.625	0.490	0.620	3.500	0.900	0.380	1.810	1.380	0.130	0.252	25
L30N-141P	3/0 AWG	3/0 - 2 AWG	Orange	1/4"	0.625	0.490	0.620	3.500	0.900	0.380	1.810	1.380	0.130	0.252	25

CONNECTORS

Compression Connectors

Long Barrel, Copper Lugs Two Hole
LN Series Cont'd

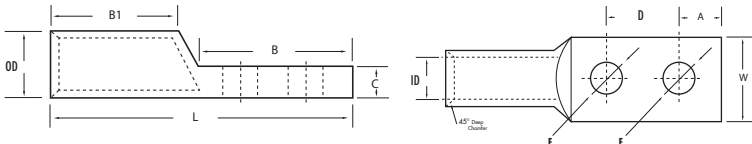
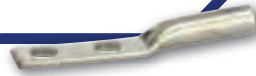


SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- 9CU.

FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, install to cable Manufacturer voltage stress relief instructions.
- Part Numbers ending in "P" have a "peep" or sight inspection hole.



***EXPANDED WIRE RANGE** when installed with NSI N12/D dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	BARREL I.D.	BARREL O.D.	LENGTH (L) (IN.)	WIDTH (W)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
L30N-38	3/0 AWG	3/0 - 2 AWG	Orange	3/8"	1.000	0.490	0.620	3.500	0.900	0.380	1.810	1.380	0.130	0.410	25
L30N-38P	3/0 AWG	3/0 - 2 AWG	Orange	3/8"	1.000	0.490	0.620	3.500	0.900	0.380	1.810	1.380	0.130	0.410	25
L30N-56	3/0 AWG	3/0 - 2 AWG	Orange	5/16"	1.000	0.490	0.620	4.650	0.900	0.620	2.990	1.380	0.130	0.312	25
L30N-56P	3/0 AWG	3/0 - 2 AWG	Orange	5/16"	1.000	0.490	0.620	4.650	0.900	0.620	2.990	1.380	0.130	0.312	25
L30N	3/0 AWG	3/0 - 2 AWG	Orange	1/2"	1.750	0.490	0.620	4.650	0.900	0.620	2.990	1.380	0.130	0.510	25
L30NP	3/0 AWG	3/0 - 2 AWG	Orange	1/2"	1.750	0.490	0.620	4.650	0.900	0.620	2.990	1.380	0.130	0.510	25
L40N-141	4/0 AWG	4/0 - 1 AWG	Purple	1/4"	0.625	0.550	0.690	2.991	1.002	0.287	1.253	1.378	0.140	0.252	25
L40N-141P	4/0 AWG	4/0 - 1 AWG	Purple	1/4"	0.625	0.550	0.690	2.991	1.002	0.287	1.253	1.378	0.140	0.252	25
L40N-142	4/0 AWG	4/0 - 1 AWG	Purple	1/4"	0.750	0.550	0.690	3.109	0.994	0.287	1.408	1.365	0.140	0.252	25
L40N-142P	4/0 AWG	4/0 - 1 AWG	Purple	1/4"	0.750	0.550	0.690	3.109	0.994	0.287	1.408	1.365	0.140	0.252	25
L40N-38	4/0 AWG	4/0 - 1 AWG	Purple	3/8"	1.000	0.550	0.690	3.540	2.002	0.370	1.820	1.407	0.135	0.410	25
L40N-38P	4/0 AWG	4/0 - 1 AWG	Purple	3/8"	1.000	0.550	0.690	3.540	1.002	0.370	1.820	1.407	0.135	0.410	25
L40N-383	4/0 AWG	4/0 - 1 AWG	Purple	3/8"	1.750	0.550	0.690	4.732	1.005	0.590	2.952	1.375	0.142	0.410	25
L40N-383P	4/0 AWG	4/0 - 1 AWG	Purple	3/8"	1.750	0.550	0.690	4.732	1.005	0.590	2.952	1.375	0.142	0.410	25
L40N	4/0 AWG	4/0 - 1 AWG	Purple	1/2"	1.750	0.550	0.690	4.720	1.000	0.620	2.990	1.420	0.130	0.510	25
L40NP	4/0 AWG	4/0 - 1 AWG	Purple	1/2"	1.750	0.550	0.690	4.720	1.000	0.620	2.990	1.420	0.130	0.510	25
L250N	250 MCM	250 MCM - 1/0 AWG	Yellow	1/2"	1.750	0.590	0.750	4.960	1.090	0.620	2.990	1.610	0.150	0.510	25
L250N-38	250 MCM	250 MCM - 1/0 AWG	Yellow	3/8"	1.000	0.590	0.750	3.780	1.090	0.380	1.810	1.610	0.150	0.410	25
L300N	300 MCM	300 MCM - 2/0 AWG	White	1/2"	1.750	0.660	0.810	5.310	1.190	0.620	2.990	1.970	0.150	0.510	12
L350N	350 MCM	350 MCM - 3/0 AWG	Red	1/2"	1.750	0.700	0.870	5.390	1.280	0.620	2.990	1.970	0.170	0.510	12
L350N-38	350 MCM	350 MCM - 3/0 AWG	Red	3/8"	1.000	0.700	0.870	4.210	1.280	0.380	1.810	1.970	0.170	0.410	12
L400N	400 MCM	400 MCM - 4/0 AWG	Blue	1/2"	1.750	0.760	0.950	5.470	1.390	0.620	2.990	1.970	0.180	0.510	6
L500N	500 MCM	500 - 250 MCM	Brown	1/2"	1.750	0.840	1.060	5.750	1.540	0.620	2.990	2.240	0.220	0.510	6
L500N-38	500 MCM	500 - 250 MCM	Brown	3/8"	1.000	0.840	1.060	4.570	1.540	0.380	1.810	2.240	0.220	0.410	6
L600N	600 MCM	600 - 250 MCM	Green	1/2"	1.750	0.930	1.190	5.790	1.720	0.620	2.990	2.240	0.250	0.510	6
L600N-38	600 MCM	600 - 250 MCM	Green	3/8"	1.000	0.930	1.190	4.610	1.720	0.380	1.810	2.240	0.250	0.410	6
L750N	750 MCM	750 - 500 MCM	Black	1/2"	1.750	1.040	1.310	6.300	1.900	0.620	2.990	2.640	0.270	0.510	3
L750N-38	750 MCM	750 - 500 MCM	Black	3/8"	1.000	1.040	1.310	5.120	1.900	0.380	1.810	2.640	0.270	0.410	3
L1000N	1000 MCM	1000 - 750 MCM	White	1/2"	1.750	1.150	1.500	7.125	2.160	0.630	3.060	3.160	0.340	0.510	3

CONNECTORS
Compression Connectors
Long Barrel Stacking Copper Lugs
SL-N Series

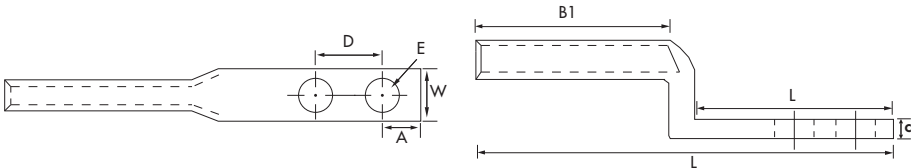


FEATURES

- Designed for use with the L-N Series.
- Produced from high conductivity copper tubing for heavy duty applications.
- Tin-Plated to provide corrosion resistance.
- Marked with die index and color coded.
- For use with LN Series.
- Listed for 35KV maximum when properly installed.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C. A9CU.
- Rating: 600V.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:
FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	END CONN. TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	STD. CTN. QTY.
SL40N	4/0 AWG	4/0 - 1 AWG	Purple	0.500	1.750	5.173	0.997	0.640	2.863	2.034	25
SL250N	250 MCM	250 MCM - 1/0 AWG	Yellow	0.500	1.750	5.500	1.160	0.640	2.870	2.220	25
SL300N	300 MCM	300-2/0 AWG	White	0.500	1.750	5.750	1.159	0.640	2.924	2.477	25
SL350N	350 MCM	350 MCM - 3/0 AWG	Red	0.500	1.750	6.000	1.271	0.640	2.876	2.58	25
SL500N	500 MCM	500 - 250 MCM	Brown	0.500	1.750	6.000	1.547	0.640	2.781	2.862	6
SL600N	600 MCM	600 - 250 MCM	Green	0.500	1.750	6.750	1.697	0.640	2.760	3.460	6
SL750N	750 MCM	750 - 500 MCM	Black	0.500	1.750	6.750	1.884	0.640	2.845	3.480	3

CONNECTORS

Compression Connectors

Stacking Adapters for Compression Terminals SA Series

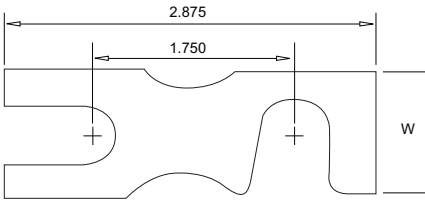
FEATURES

- Tin-plated pure aluminum for good conductivity and corrosion resistance.
- Allows for stacking of standard two hole compression lugs and keeps inventories to a minimum.
- To stack 4-hole NECA drilled terminals, use two adapters assembled in parallel.



SPECIFICATIONS

- RATING: 600V.



CAT. NO.	HEIGHT (IN.)	CONNECTOR SIZE RANGE	STD. CTN. QTY.
SA10-400	0.875	1/0-400 MCM	10
SA500-1000	1.125	500-1000 MCM	6

CONNECTORS

Compression Connectors

Short Barrel Copper Lugs One Hole with Peep Hole

GL Series

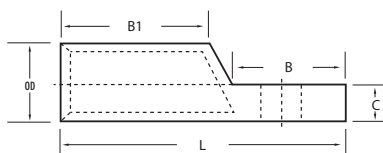
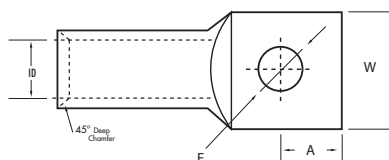


SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus Listed 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V
- 9CU.

FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly install applications greater than 2000V, installed to cable manufacturer voltage stress relief instructions.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE (IN.)	BARREL I.D. (IN.)	BARREL O.D. (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICK-NESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
GL810	8 AWG	8 AWG	Red	# 10	0.173	0.272	1.201	0.421	0.276	0.591	0.441	0.079	0.209	100
GL814	8 AWG	8 AWG	Red	1/4	0.173	0.272	1.201	0.421	0.276	0.591	0.441	0.079	0.252	100
GL838	8 AWG	8 AWG	Red	3/8	0.173	0.272	1.201	0.421	0.276	0.591	0.441	0.079	0.330	100
GL856	8 AWG	8 AWG	Red	5/16	0.173	0.272	1.201	0.421	0.276	0.591	0.441	0.079	0.330	100
GL614	6 AWG	6 - 8 AWG	Blue	1/4	0.205	0.295	1.496	0.421	0.295	0.669	0.709	0.083	0.252	100
GL656	6 AWG	6 - 8 AWG	Blue	5/16	0.205	0.295	1.496	0.488	0.295	0.669	0.709	0.067	0.331	100
GL638	6 AWG	6 - 8 AWG	Blue	3/8	0.205	0.295	1.496	0.488	0.295	0.669	0.709	0.067	0.410	100
GL414	4 AWG	4 - 6 AWG	Gray	1/4	0.252	0.343	1.496	0.488	0.315	0.669	0.709	0.079	0.252	100
GL456	4 AWG	4 - 6 AWG	Gray	5/16	0.252	0.343	1.496	0.488	0.315	0.669	0.709	0.079	0.331	100
GL438	4 AWG	4 - 6 AWG	Gray	3/8	0.252	0.343	1.496	0.559	0.315	0.669	0.709	0.079	0.413	100
GL338	3 AWG	3 - 6 AWG	White	3/8	0.277	0.372	1.984	0.594	0.375	0.875	0.885	0.086	0.399	50
GL214	2 AWG	2 - 6 AWG	Brown	1/4	0.315	0.421	1.795	0.602	0.370	0.811	0.827	0.102	0.252	50
GL256	2 AWG	2 - 6 AWG	Brown	5/16	0.315	0.421	1.795	0.602	0.370	0.811	0.827	0.102	0.331	50
GL238	2 AWG	2 - 6 AWG	Brown	3/8	0.315	0.421	1.795	0.602	0.370	0.811	0.827	0.102	0.413	50
GL114	1 AWG	1 - 6 AWG	Green	1/4	0.358	0.469	1.835	0.673	0.370	0.811	0.827	0.106	0.252	50
GL156	1 AWG	1 - 6 AWG	Green	5/16	0.358	0.469	1.835	0.673	0.370	0.811	0.827	0.106	0.331	50
GL138	1 AWG	1 - 6 AWG	Green	3/8	0.358	0.469	1.835	0.673	0.394	0.811	0.827	0.106	0.413	50
GL1056	1/0 AWG	1/0 - 6 AWG	Pink	5/16	0.390	0.520	1.835	0.744	0.370	0.811	0.827	0.126	0.331	50
GL1038	1/0 AWG	1/0 - 6 AWG	Pink	3/8	0.390	0.520	1.835	0.744	0.370	0.811	0.827	0.126	0.413	50
GL1048	1/0 AWG	1/0 - 6 AWG	Pink	1/2	0.390	0.520	1.835	0.744	0.370	0.811	0.827	0.126	0.512	50
GL2056	2/0 AWG	2/0 - 4 AWG	Black	5/16	0.441	0.563	2.244	0.815	0.472	1.063	0.945	0.118	0.331	25

CONNECTORS

Compression Connectors

Short Barrel Copper Lugs One Hole with Peep Hole GL Series Cont'd

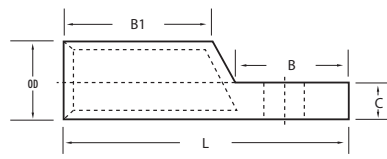
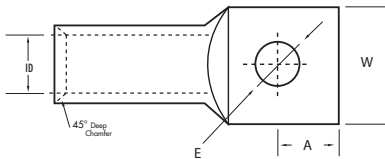


FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly install applications greater than 2000V, installed to cable manufacturer voltage stress relief instructions.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus Listed 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V
- 9CU.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 87**

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE (IN.)	BARREL I.D. (IN.)	BARREL O.D. (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
GL2038	2/0 AWG	2/0 - 4 AWG	Black	3/8	0.441	0.563	2.244	0.815	0.472	1.063	0.945	0.118	0.413	25
GL2048	2/0 AWG	2/0 - 4 AWG	Black	1/2	0.441	0.563	2.244	0.815	0.472	1.063	0.945	0.118	0.512	25
GL3038	3/0 AWG	3/0 - 2 AWG	Orange	3/8	0.492	0.622	2.362	0.902	0.472	1.063	0.984	0.126	0.413	25
GL3048	3/0 AWG	3/0 - 2 AWG	Orange	1/2	0.492	0.622	2.362	0.902	0.472	1.063	0.984	0.126	0.512	25
GL4038	4/0 AWG	4/0 - 1 AWG	Purple	3/8	0.547	0.689	2.362	1.000	0.472	1.063	0.984	0.134	0.413	25
GL4048	4/0 AWG	4/0 - 1 AWG	Purple	1/2	0.547	0.689	2.362	1.000	0.472	1.063	0.984	0.134	0.512	25
GL25038	250 MCM	250 MCM - 1/0 AWG	Yellow	3/8	0.594	0.752	2.480	1.091	0.472	1.063	1.063	0.150	0.413	25
GL25048	250 MCM	250 MCM - 1/0 AWG	Yellow	1/2	0.594	0.752	2.480	1.091	0.472	1.063	1.063	0.150	0.512	25
GL30048	300 MCM	300 MCM - 2/0 AWG	White	1/2	0.657	0.815	2.480	1.189	0.520	1.063	1.063	0.150	0.512	12
GL35038	350 MCM	350 MCM - 3/0 AWG	Red	3/8	0.692	0.875	1.625	1.281	0.395	0.875	1.112	0.173	0.391	12
GL35048	350 MCM	350 MCM - 3/0 AWG	Red	1/2	0.701	0.874	2.606	1.276	0.520	1.063	1.102	0.165	0.512	12
GL40048	400 MCM	400 MCM - 4/0 AWG	Blue	1/2	0.764	0.949	3.079	1.386	0.520	1.378	1.181	0.177	0.512	6
GL50048	500 MCM	500 - 250 MCM	Brown	1/2	0.835	1.063	3.276	1.539	0.520	1.378	1.378	0.217	0.512	6
GL50058	500 MCM	500 - 250 MCM	Brown	5/8	0.835	1.063	3.276	1.539	0.520	1.378	1.378	0.217	0.669	6
GL60048	600 MCM	600 - 250 MCM	Green	1/2	0.925	1.189	3.504	1.717	0.520	1.457	1.496	0.252	0.512	6
GL60058	600 MCM	600 - 250 MCM	Green	5/8	0.925	1.189	3.504	1.717	0.689	1.457	1.496	0.252	0.669	6
GL75048	750 MCM	750 - 500 MCM	Black	1/2	1.022	1.295	3.866	1.760	0.685	1.550	1.743	0.277	0.541	3
GL75058	750 MCM	750 - 500 MCM	Black	5/8	1.031	1.311	4.370	1.902	0.689	1.850	1.850	0.268	0.669	3

CONNECTORS

Compression Connectors

Short Barrel Copper Lugs Two Hole with Peep Hole

GL-N Series

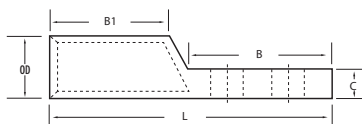
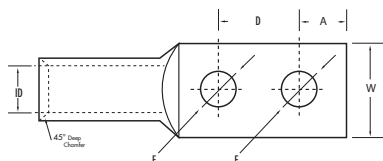


SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V max.
- 9CU.

FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, install to cable manufacturer voltage stress relief instructions.
- Note: Part numbers ending in "X" have no peep hole.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	I.D. (IN.)	O.D. (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
GL6N-141	6 AWG	6 - 8 AWG	Blue	1/4	0.625	0.205	0.295	2.087	0.421	0.280	1.260	0.709	0.083	0.252	100
GL6N-141X	6 AWG	6 - 8 AWG	Blue	1/4	0.625	0.205	0.295	2.087	0.421	0.280	1.260	0.709	0.083	0.252	100
GL6N-143	6 AWG	6 - 8 AWG	Blue	1/4	1.000	0.205	0.295	2.638	0.421	0.280	1.811	0.709	0.083	0.252	100
GL6N-38	6 AWG	6 - 8 AWG	Blue	3/8	1.000	0.205	0.295	2.638	0.488	0.382	1.811	0.709	0.087	0.413	100
GL4N-141	4 AWG	4 - 6 AWG	Gray	1/4	0.625	0.252	0.343	2.087	0.488	0.280	1.260	0.709	0.087	0.252	100
GL4N-38	4 AWG	4 - 6 AWG	Gray	3/8	1.000	0.252	0.343	2.677	0.488	0.382	1.811	0.748	0.087	0.413	100
GL2N-141	2 AWG	2 - 6 AWG	Brown	1/4	0.625	0.315	0.421	2.283	0.602	0.280	1.260	0.827	0.102	0.252	50
GL2N-141X	2 AWG	2 - 6 AWG	Brown	1/4	0.625	0.315	0.421	2.283	0.602	0.280	1.260	0.827	0.102	0.252	50
GL2N-142	2 AWG	2 - 6 AWG	Brown	1/4	0.750	0.315	0.421	2.362	0.602	0.280	1.378	0.827	0.102	0.252	50
GL2N-143	2 AWG	2 - 6 AWG	Brown	1/4	1.000	0.315	0.421	2.795	0.602	0.280	1.811	0.827	0.102	0.252	50
GL2N-38	2 AWG	2 - 6 AWG	Brown	3/8	1.000	0.315	0.421	2.835	0.602	0.280	1.811	0.827	0.102	0.413	50
GL2N-38X	2 AWG	2 - 6 AWG	Brown	3/8	1.000	0.315	0.421	2.835	0.602	0.280	1.811	0.827	0.102	0.413	50
GL1N-38	1 AWG	1 - 6 AWG	Green	3/8	1.000	0.350	0.463	3.024	0.672	0.345	1.842	0.955	0.106	0.404	50
GL10N-38	1/0 AWG	1/0 - 6 AWG	Pink	3/8	1.000	0.390	0.520	2.835	0.744	0.382	1.811	0.827	0.126	0.413	50
GL10N-38X	1/0 AWG	1/0 - 6 AWG	Pink	3/8	1.000	0.390	0.520	2.835	0.744	0.382	1.811	0.827	0.126	0.413	50

CONNECTORS

Compression Connectors

Short Barrel Copper Lugs Two Hole with Peep Hole GL-N Series Cont'd

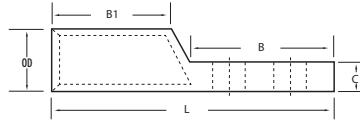
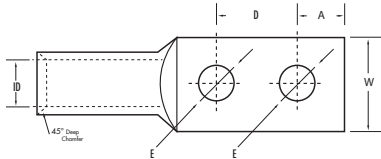


FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly install applications greater than 2000V, install to cable manufacturer voltage stress relief instructions.
- Part numbers ending in "X" have no peep hole.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V max.
- 9CU.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 87**

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE (IN.)	MTG. HOLE SPACING (D) (IN.)	I.D. (IN.)	O.D. (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	END OF CONN TO CTR. (A) (IN.)	TANG LENGTH (B) (IN.)	BARREL LENGTH (B1) (IN.)	TANG THICKNESS (C) (IN.)	MTG. HOLE DIA. (E) (IN.)	STD. CTN. QTY.
GL20N	2/0 AWG	2/0 - 4 AWG	Black	1/2	1.750	0.441	0.563	4.173	0.815	0.618	2.992	0.945	0.118	0.512	25
GL20N-38	2/0 AWG	2/0 - 4 AWG	Black	3/8	1.000	0.441	0.563	2.992	0.815	0.382	1.811	0.945	0.118	0.413	25
GL30N	3/0 AWG	3/0 - 2 AWG	Orange	1/2	1.750	0.492	0.622	4.291	0.902	0.618	2.992	0.984	0.126	0.512	25
GL30N-38	3/0 AWG	3/0 - 2 AWG	Orange	3/8	1.000	0.492	0.622	3.110	0.902	0.382	1.811	0.984	0.126	0.413	25
GL40N	4/0 AWG	4/0 - 1 AWG	Purple	1/2	1.750	0.547	0.689	4.291	1.000	0.618	2.992	0.984	0.134	0.512	25
GL40N-38	4/0 AWG	4/0 - 1 AWG	Purple	3/8	1.000	0.547	0.689	3.110	1.000	0.382	1.811	0.984	0.134	0.413	25
GL250N	250 MCM	250 MCM - 1/0 AWG	Yellow	1/2	1.750	0.594	0.752	4.409	1.091	0.618	2.992	1.063	0.150	0.512	25
GL250N-38	250 MCM	250 MCM - 1/0 AWG	Yellow	3/8	1.000	0.594	0.752	3.228	1.091	0.382	1.811	1.063	0.150	0.413	25
GL350N	350 MCM	350 MCM - 3/0 AWG	Red	1/2	1.750	0.701	0.874	4.528	1.276	0.618	2.992	1.102	0.165	0.512	12
GL350N-38	350 MCM	350 MCM - 3/0 AWG	Red	3/8	1.000	0.701	0.874	3.346	1.276	0.382	1.811	1.102	0.165	0.413	12
GL400N	400 MCM	400 MCM - 4/0 AWG	Blue	1/2	1.750	0.764	0.949	4.685	1.386	0.618	2.992	1.181	0.177	0.512	6
GL500N	500 MCM	500 - 250 MCM	Brown	1/2	1.750	0.839	1.063	4.882	1.539	0.618	2.992	1.378	0.217	0.512	6
GL500N-38	500 MCM	500 - 250 MCM	Brown	3/8	1.000	0.839	1.063	3.701	1.539	0.382	1.811	1.378	0.217	0.413	6
GL600N	600 MCM	600 - 250 MCM	Green	1/2	1.750	0.925	1.189	5.039	1.717	0.618	2.992	1.496	0.252	0.512	6
GL750N	750 MCM	750 - 500 MCM	Black	1/2	1.750	1.043	1.311	5.512	1.902	0.618	2.992	1.850	0.268	0.512	3

CONNECTORS

Compression Connectors

Copper Splice Short Barrel

SC Series

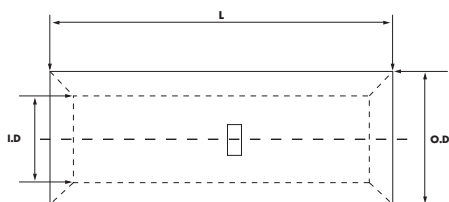


FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly installed to cable manufacturer voltage stress relief instructions.
- 5KV is the maximum voltage in all bare splices.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus Listed 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY
- Temperature Rating: 90 °C.
- Voltage: 600V max.
- 9CU.



***EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	I.D. (IN.)	O.D. (IN.)	LENGTH (L) (IN.)	STD. CTN. QTY.
SC-8	8 AWG	8 AWG	Red	0.173	0.272	0.902	100
SC-6	6 AWG	6 - 8 AWG	Blue	0.205	0.295	1.000	100
SC-4	4 AWG	4 - 6 AWG	Gray	0.252	0.343	1.000	100
SC-3	3 AWG	3 - 6 AWG	White	0.282	0.378	1.883	50
SC-2	2 AWG	2 - 6 AWG	Brown	0.315	0.421	1.252	50
SC-1	1 AWG	1 - 6 AWG	Green	0.358	0.469	1.799	50
SC-1/0	1/0 AWG	1/0 - 6 AWG	Pink	0.390	0.520	1.598	50
SC-2/0	2/0 AWG	2/0 - 4 AWG	Black	0.441	0.563	1.752	25
SC-3/0	3/0 AWG	3/0 - 2 AWG	Orange	0.492	0.622	1.752	25
SC-4/0	4/0 AWG	4/0 - 1 AWG	Purple	0.547	0.689	1.902	25
SC-250	250 MCM	250 MCM - 1/0 AWG	Yellow	0.594	0.752	2.000	25
SC-300	300 MCM	300 MCM - 2/0 AWG	White	0.657	0.815	2.098	12
SC-350	350 MCM	350 MCM - 3/0 AWG	Red	0.701	0.874	2.098	12
SC-400	400 MCM	400 MCM - 4/0 AWG	Blue	0.764	0.949	2.299	6
SC-500	500 MCM	500 - 250 MCM	Brown	0.835	1.063	2.500	6
SC-600	600 MCM	600 - 250 MCM	Green	0.925	1.189	2.500	6
SC-750	750 MCM	750-500 MCM	Black	1.031	1.311	3.201	3

CONNECTORS

Compression Connectors

Copper Splice Long Barrel

C Series

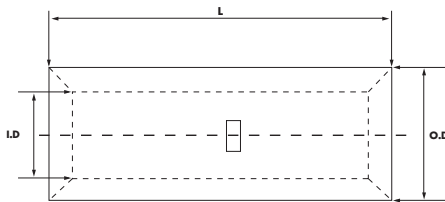


FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly installed to cable manufacturer voltage stress relief instructions.
- 5KV is the maximum voltage in all bare splices.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V max.
- 9CU.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE INDEX	I.D. (IN.)	O.D. (IN.)	LENGTH (L) (IN.)	STD. CTN. QTY.
C-8	8 AWG	8 AWG	Red	0.173	0.272	1.752	100
C-6	6 AWG	6 - 8 AWG	Blue	0.205	0.295	1.752	100
C-4	4 AWG	4 - 6 AWG	Gray	0.252	0.343	1.752	100
C-3	3 AWG	3 - 6 AWG	White	0.282	0.378	2.381	50
C-2	2 AWG	2 - 6 AWG	Brown	0.315	0.421	1.902	50
C-1	1 AWG	1 - 6 AWG	Green	0.358	0.469	2.201	50
C-1/0	1/0 AWG	1/0 - 6 AWG	Pink	0.390	0.520	2.201	50
C-2/0	2/0 AWG	2/0 - 4 AWG	Black	0.441	0.563	2.252	25
C-3/0	3/0 AWG	3/0 - 2 AWG	Orange	0.492	0.622	2.252	25
C-4/0	4/0 AWG	4/0 - 1 AWG	Purple	0.547	0.689	2.752	25
C-250	250 MCM	250 MCM - 1/0 AWG	Yellow	0.594	0.752	3.252	25
C-300	300 MCM	300 MCM - 2/0 AWG	White	0.657	0.815	3.504	12
C-350	350 MCM	350 MCM - 3/0 AWG	Red	0.701	0.874	3.752	12
C-400	400 MCM	400 MCM - 4/0 AWG	Blue	0.764	0.949	3.752	6
C-500	500 MCM	500 - 250 MCM	Brown	0.835	1.063	4.252	6
C-600	600 MCM	600 - 250 MCM	Green	0.925	1.189	4.500	6
C-750	750 MCM	750-500 MCM	Black	1.031	1.311	4.752	3
C-1000	1000 MCM	1000-750 MCM	White	1.189	1.527	6.122	3

CONNECTORS

Compression Connectors

For Flexible Copper Cable – One Hole Short Barrel (Peep Hole)

GL-B Series

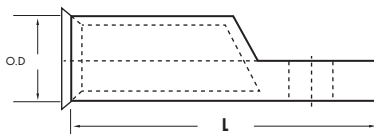
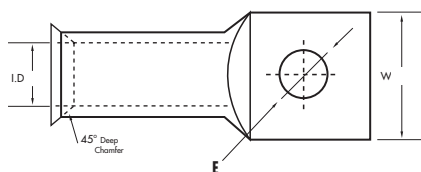


SPECIFICATIONS

- UL486A Listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.

FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	COMM	CABLE SIZE			BOLT SIZE (E) (IN.)	I.D. (IN.)	O.D. (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)
					ASTM CLASS H	WELDING CLASS M	DLO DIESEL LOCOMOTIVE					
GL214B	2 AWG	2 - 6 AWG	Brown	2	4	4	(125)	1/4	0.315	0.421	1.800	0.600
GL256B	2 AWG	2 - 6 AWG	Brown	2	4	4	(125)	5/16	0.315	0.421	1.800	0.600
GL156B	1 AWG	1 - 6 AWG	Green	1	2	2	(150)	5/16	0.358	0.469	1.830	0.670
GL1056B	1/0 AWG	1/0 - 6 AWG	Pink	1/0	1	1	(225)	5/16	0.390	0.520	1.830	0.740
GL2038B	2/0 AWG	2/0 - 4 AWG	Black	2/0	1/0	1/0	1/0 (275)	3/8	0.441	0.563	2.240	0.810
GL3038B	3/0 AWG	3/0 - 2 AWG	Orange	3/0	2/0	—	2/0 (325)	3/8	0.492	0.622	2.360	0.900
GL3048B	3/0 AWG	3/0 - 2 AWG	Orange	3/0	2/0	—	2/0 (325)	1/2	0.492	0.622	2.360	0.900
GL4048B	4/0 AWG	4/0 - 1 AWG	Purple	4/0	3/0	2/0	3/0 (450)	1/2	0.547	0.689	2.360	1.000
GL25038B	250 MCM	250 MCM - 1/0 AWG	Yellow	250	—	3/0	4/0 (550)	3/8	0.594	0.752	2.480	1.090
GL25048B	250 MCM	250 MCM - 1/0 AWG	Yellow	250	—	3/0	4/0 (550)	1/2	0.594	0.752	2.480	1.090
GL30048B	300 MCM	300 MCM - 2/0 AWG	White	300	4/0	4/0	262.6	1/2	0.657	0.815	2.490	1.190
GL35058B	350 MCM	350 MCM - 3/0 AWG	Red	350	250	250	313.1	5/8	0.692	0.875	2.910	1.280
GL50058B	400 MCM	400 MCM - 4/0 AWG	Brown	500	350	300	373.3	5/8	0.835	1.063	3.280	1.540
GL60058B	500 MCM	500 - 250 MCM	Green	600	400	350	444.4	5/8	0.925	1.189	3.500	1.720
GL70058B	600 MCM	600 - 250 MCM	Pink	700	500	400	535.3	5/8	1.031	1.311	—	—
GL75058B	750 MCM	750-500 MCM	Black	750	600	500	—	5/8	1.031	1.311	4.370	1.950
GL10058B	1000 MCM	1000-500 MCM	White	1000	800	700	777.7	5/8	1.158	1.491	4.769	2.170

CONNECTORS

Compression Connectors

For Flexible Copper Cable – One Hole Long Barrel
L-B Series



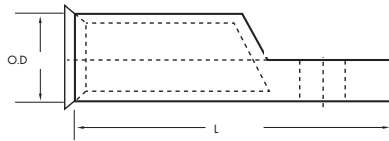
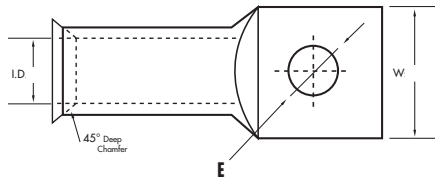
SPECIFICATIONS

- UL486A Listed Wire Connector.
- cULus Listed 155027.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.



FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.



***EXPANDED WIRE RANGE** when installed with NSI N12/D dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	COMM	CABLE SIZE			LENGTH (L) (IN.)	BOLT SIZE (E) (IN.)	WIDTH (W) (IN.)	I.D. (IN.)	O.D. (IN.)
					ASTM CLASS H	WELDING CLASS M	DLO DIESEL LOCOMOTIVE					
L638B	6 AWG	6-8 AWG	Blue	6	8	8	(61)	1.910	3/8	0.590	0.205	0.295
L438B	4 AWG	4 - 6 AWG	Grey	4	6	6	(105)	1.910	3/8	0.590	0.252	0.343
L256B	2 AWG	2 - 6 AWG	Brown	2	4	4	(125)	2.070	5/16	0.600	0.315	0.421
L238B	2 AWG	2 - 6 AWG	Brown	2	4	4	(125)	2.070	3/8	0.600	0.315	0.421
L156B	1 AWG	1 - 6 AWG	Green	1	2	2	(150)	2.110	5/16	0.670	0.358	0.469
L1056B	1/0 AWG	1/0 - 6 AWG	Pink	1/0	1	1	(225)	2.210	5/16	0.740	0.390	0.520
L2038B	2/0 AWG	2/0 - 4 AWG	Black	2/0	1/0	1/0	1/0 (275)	2.680	3/8	0.810	0.441	0.563
L3038B	3/0 AWG	3/0 - 2 AWG	Orange	3/0	2/0	—	2/0 (325)	2.800	3/8	0.900	0.492	0.622
L3048B	3/0 AWG	3/0 - 2 AWG	Orange	3/0	2/0	—	2/0 (325)	2.800	1/2	1.000	0.492	0.622
L4048B	4/0 AWG	4/0 - 1 AWG	Purple	4/0	3/0	2/0	3/0 (450)	2.800	1/2	1.000	0.547	0.689
L25038B	250 MCM	250 MCM - 1/0 AWG	Yellow	250	—	3/0	4/0 (550)	3.030	3/8	1.090	0.594	0.752
L25048B	250 MCM	250 MCM - 1/0 AWG	Yellow	250	—	3/0	4/0 (550)	3.030	1/2	1.090	0.594	1.752
L30048B	300 MCM	300 MCM - 2/0 AWG	White	300	4/0	4/0	262.6	3.390	1/2	1.190	0.651	1.815
L35058B	350 MCM	350 MCM - 3/0 AWG	Red	350	250	250	313.1	3.460	5/8	1.280	0.701	0.874
L50058B	500 MCM	500 - 250 MCM	Brown	500	350	300	373.3	4.130	5/8	1.540	0.835	1.063
L60058B	600 MCM	600 - 250 MCM	Green	600	400	350	444.4	4.256	5/8	1.720	0.925	1.189
L70048B	700 MCM	700-500 MCM	—	700	500	400	535.3	4.922	1/2	1.690	0.975	1.241
L70058B	700 MCM	700-500 MCM	—	700	500	400	535.3	5.094	5/8	1.702	0.962	1.241
L75058B	750 MCM	750-500 MCM	Black	750	600	500	—	5.160	5/8	1.900	1.031	1.311

CONNECTORS

Compression Connectors

For Flexible Copper Cable – Two Hole Long Barrel

L-NB Series

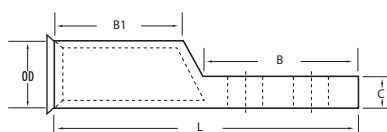
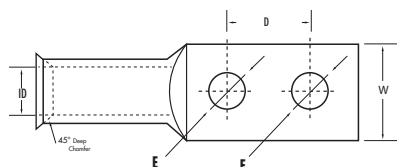


SPECIFICATIONS

- UL486A Listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V
- 9CU.
- For copper cables only.

FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1 3/4"). (E Dimension)



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	LENGTH (L) (IN.)	BOLT SIZE (E) (IN.)	MOUNTING HOLE SPACING (D) (IN.)	WIDTH (W) (IN.)	I.D. (IN.)	O.D. (IN.)	COMM	CABLE SIZE		DLO DIESEL LOCOMOTIVE	STD. CTN. QTY.
											ASTM CLASS H	CLASS M WELDING		
L30NB	3/0	3/0 - 2 AWG	Orange	4.650	1/2	1.750	0.900	0.490	0.620	3/0	2/0	—	2/0 (325)	12
L40NB	4/0	4/0 - 1	Purple	4.720	1/2	1.750	1.000	0.550	0.690	4/0	3/0	2/0	3/0 (450)	12
L250NB	250	250 - 1/0	Yellow	4.960	1/2	1.750	1.090	0.590	0.750	250	—	3/0	4/0 (550)	12
L300NB	300	300 - 2/0	White	5.310	1/2	1.750	1.190	0.660	0.810	300	4/0	4/0	262.6	6
L350NB	350	350 - 3/0	Red	5.390	1/2	1.750	1.280	0.700	0.870	350	250	250	313.1	6
L500NB	500	500 - 250	Brown	5.750	1/2	1.750	1.540	0.840	1.060	500	350	300	373.3	3
L600NB	600	600 - 250	Green	5.790	1/2	1.750	1.720	0.930	1.190	600	400	350	444.4	3
L700NB	700	700 - 500	Pink	6.250	1/2	1.750	1.844	0.980	1.230	700	500	400	535.3	3
L750NB	750	750 - 500	Black	6.300	1/2	1.750	1.900	1.030	1.310	750	600	500	—	3
L100NB	1000	1000 - 750	White	7.125	1/2	1.750	2.160	1.150	1.500	1000	800	700	777.7	3

CONNECTORS

Compression Connectors

For Flexible Copper Cable – Two Hole Short Barrel (Peep Hole)
GL-NB Series

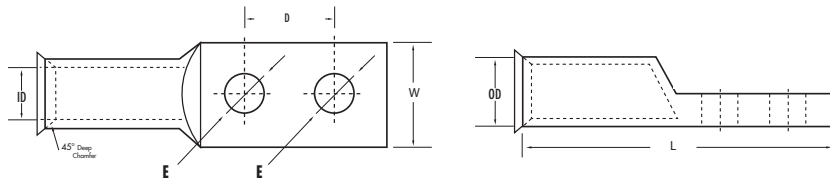


SPECIFICATIONS

- UL486A Listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.

FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1 3/4"). (E Dimension)



***EXPANDED WIRE RANGE** when installed with
NSI N12/D dieless compression tool.
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 87**

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	BOLT SIZE (E) (IN.)	MOUNTING HOLE SPACING (D) (IN.)	I.D. (IN.)	O.D. (IN.)	COMM	CABLE SIZE ASTM CLASS H	CLASS M WELDING	DIESEL LOCOMOTIVE	LENGTH (L)	WIDTH (W)	STD. CTN. QTY.
GL30NB	3/0	3/0 - 2	Orange	1/2	1.750	0.492	0.622	3/0	2/0	—	2/0 (325)	4.291	0.902	12
GL250NB	250	250 - 1/0	Yellow	1/2	1.750	0.590	0.752	250	—	3/0	4/0 (550)	4.409	1.090	12
GL300NB	300	300 - 2/0	White	1/2	1.750	0.660	0.810	300	4/0	4/0	262.6	4.528	1.276	6
GL350NB	350	350 - 3/0	Red	1/2	1.750	0.700	0.870	350	250	250	313.1	4.528	1.276	6
GL500NB	500	500 - 250	Brown	1/2	1.750	0.840	1.060	500	350	300	373.3	4.882	1.540	3
GL600NB	600	600 - 250	Green	1/2	1.750	0.925	1.190	600	400	350	444.4	5.039	1.717	3
GL700NB	700	700-500	Pink	1/2	1.750	0.984	1.240	700	—	—	—	5.669	1.722	3
GL750NB	750	750 - 500	Black	1/2	1.750	1.040	1.310	750	600	500	—	5.512	1.900	3
GL100NB	1000	—	White	1/2	1.750	1.173	1.492	1000	800	700	777.7	5.870	2.158	3

CONNECTORS

Compression Connectors

For Flexible Copper Cable – Copper Short Barrel

SC-B Series

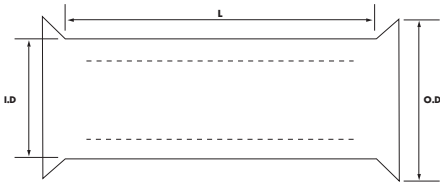


FEATURES

- Splice has flared openings at both ends to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- Positive center stop.
- Tin-plated for corrosion resistance.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- cULus Listed 155027.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.



***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:
FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87

CAT. NO.	WIRE RANGE	EXPANDED WIRE RANGE*	COLOR CODE	LENGTH (L)	BARREL I.D.	BARREL O.D.	COMM	CABLE SIZE		DLO DIESEL LOCOMOTIVE	STD. CTN. QTY.
								ASTM CLASS H	CLASS M WELDING		
SC-1B	1 AWG	1 AWG	Green	1.800	0.358	0.468	1	—	—	—	25
SC-1/OB	1/0 AWG	1/0 - 6 AWG	Pink	1.598	0.520	0.520	1/0	1	1	(225)	25
SC-2/OB	2/0 AWG	2/0 - 4 AWG	Black	1.752	0.560	0.563	2/0	1/0	1/0	1/0 (275)	25
SC-3/OB	3/0 AWG	3/0 - 2 AWG	Orange	1.752	0.620	0.622	3/0	2/0	—	2/0 (325)	25
SC-4/OB	4/0 AWG	4/0 - 1 AWG	Purple	1.902	0.690	0.689	4/0	3/0	2/0	3/0 (450)	25
SC-250B	250 MCM	250 MCM - 1/0 AWG	Yellow	2.000	0.750	0.752	250	—	3/0	4/0 (550)	25
SC-300B	300 MCM	300 MCM - 2/0 AWG	White	2.098	0.810	0.815	300	4/0	4/0	262.6	12
SC-350B	350 MCM	350 MCM - 3/0 AWG	Red	2.098	0.870	0.874	350	250	250	313.1	12

CONNECTORS

Compression Connectors

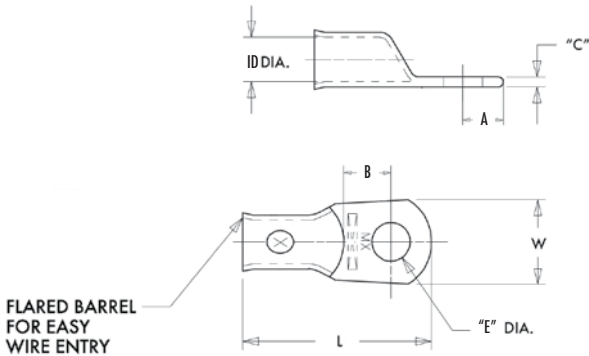
Copper Soldering Lugs

S Series



- SPECIFICATIONS**
- Temperature Rating: 90 °C.
 - Voltage: 600V.

- FEATURES**
- Made of pure electrolytic copper single hole.
 - Side formed with round ends.
 - All lugs marked with ampere rating.



CAT. NO.	WIRE SIZE	AMPERES	LENGTH (L) (IN.)	WIDTH (W) (IN.)	BARREL I.D.	HOLE DIAMETER (E) (IN.)	TANG THICKNESS (C) (IN.)	TANG LENGTH (A) (IN.)	END OF CONN. TO CTR. OF 1ST HOLE (A) (IN.)	STD CTN. QTY.
S-1	10	25	0.847	0.267	0.192	0.160	0.057	0.464	0.238	100
S-2	8	30-35	1.313	0.594	0.270	0.278	0.070	0.720	0.342	100
S-3	6	45-50	1.180	0.456	0.315	0.200	0.068	0.555	0.275	100
S-4	4	60-70	1.500	0.531	0.386	0.278	0.080	0.685	0.310	100
S-5	2	90	1.625	0.625	0.427	0.340	0.095	0.730	0.350	50
S-6	1/0	100-125	1.844	0.728	0.493	0.278	0.110	0.840	0.407	50
S-7	2/0	150	2.062	0.824	0.560	0.400	0.110	0.950	0.465	50
S-8	3/0	175	2.156	0.916	0.624	0.400	0.115	0.950	0.520	25
S-9	4/0	200-225	2.344	0.999	0.682	0.400	0.135	1.012	0.510	25
S-10	250	250	2.573	1.187	0.799	0.404	0.140	1.2	0.565	25

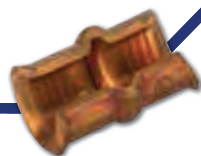
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CONNECTORS

Compression Connectors

C-Taps

CT Series



SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Listed Grounding & Bonding.
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.

FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.
- Rated for 600V applications.

FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 88

CAT. NO.	WIRE SIZE		COLOR CODE	STD. CTN. QTY.
	MAIN	BRANCH		
CT-101	14	16	Red	100
	12	14	Red	100
CT-102	10	10	Blue	100
	8	12	Blue	100
CT-103	6	10-12	Gray	100
	8	8-10	Gray	100
CT-104	4 or 5	8-10-12	Brown	100
	6	6-8	Brown	100
CT-105	—	6-8-10-12	Green	100
	4 or 5	6-5	Green	100
CT-106	—	5	Pink	100
	4	4	Pink	100
CT-107	1	—	Black	50
	2	4-5	Black	50
	3	3-4	Black	50
CT-108	1/0	4	Orange	50
	1	3-4	Orange	50
	2	2-3	Orange	50
CT-109	2/0	3-4	Purple	50
	1/0	2-3	Purple	50
	-	1-2	Purple	50
CT-110	3/0	2-3-4	Yellow	25
	2/0	1-2	Yellow	25
	1/0	1/0-1	Yellow	25

CONNECTORS

Compression Connectors

C-Taps
CTH Series



SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Listed Grounding & Bonding.
- * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.

FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250 for connecting to the grounding electrode system.
- Rated for 600V applications.

FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 88

CAT. NO.	WIRE SIZE		COLOR CODE	STD. CTN. QTY.
	MAIN	BRANCH		
CTH-111	1	1	Blue	25
	1/0	1/0-2	Blue	25
	2/0	2/0-4	Blue	25
	3/0	1/0-6	Blue	25
	4/0	1-8	Blue	25
CTH-112	2/0	2/0-1	Brown	25
	3/0	3/0-3	Brown	25
	4/0	4/0-4	Brown	25
	250	1/0-8	Brown	25
CTH-113	2/0	2/0-1	Pink	12
	3/0	3/0-2	Pink	12
	4/0	4/0-4	Pink	12
	250	3/0-6	Pink	12
	300	2/0-8	Pink	12
CTH-114	4/0	4/0-2/0	Black	6
	250	250-1	Black	6
	300	4/0-4	Black	6
	350	3/0-6	Black	6
CTH-115	250	250	Yellow	6
	300	300-3/0	Yellow	6
	350	350-1/0	Yellow	6
	400	300-2	Yellow	6
	450	250-4	Yellow	6
	500	250-6	Yellow	6
CTH-116	350	350-4/0	White	3
	400	400-2/0	White	3
	450	450-1	White	3
	500	500-2	White	3
CTH-117	750-500	4/0-6	-	3
	750	750-4/0	White	3

CONNECTORS
Compression Connectors
Copper "C" Taps
CTH Series



- FEATURES**
- Range-taking compression connectors made from high conductivity copper alloy.
 - Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
 - Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation.
 - Installation time is reduced because of its "C" shape.

- SPECIFICATIONS**
- UL486A Listed Wire Connector.
 - UL467 Listed Grounding & Bonding.
 - * CLASS B OR C BUILDING WIRE CU CABLE ONLY.
 - Temperature Rating: 90 °C.
 - Voltage: 600V.

FOR TOOL/DIE CRIMPING INFORMATION,
PLEASE SEE TABLE ON PAGE 89

CAT. NO.	CONDUCTOR RANGE		STRIP LENGTH (IN.)	STD. CTN. QTY.
	RUN	TAP		
CTH-46	6 SOL - 4 STR	6 SOL - 6 STR	3/4	25
CTH-44	6 SOL - 4 STR	4 SOL - 4 STR	3/4	25
CTH-24	2 SOL - 2 STR	8 SOL - 4 STR	7/8	10
CTH-22	2 SOL - 2 STR	2 SOL - 2 STR	7/8	25
CTH-2020	1/0 STR - 2/0 STR	1/0 STR - 2/0 STR	11/16	3
CTH-4020	3/0 STR - 4/0 STR	1/0 STR - 2/0 STR	13/16	3
CTH-4040	3/0 STR - 4/0 STR	3/0 STR - 4/0 STR	13/16	3

CONNECTORS

Split Bolt Connectors

Copper Split Bolts 2 Wire

N Series



FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for two maximum wire sizes.

SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL486D Listed Direct Bury.

CAT. NO.	COPPER CONDUCTOR			MAXIMUM CONDUCTOR COPPERWELD		WIRE DIA. RANGE IN.	REC. TORQUE (IN. LB.)	STD. CTN. QTY.
	RANGE OF EQUAL MAIN & TAP		MIN. TAP WITH ONE MAX. MAIN	STR	TYPE A			
	MIN.	MAX.						
N-10	16 STR	10 STR	16 STR	—	—	0.057 — 0.116	80	100
N-8	16 STR	8 STR	16 STR	—	—	0.057 — 0.145	80	100
N-6	10 SOL	6 SOL	16 SOL	—	—	0.102 — 0.162	165	100
N-4	8 SOL	4 SOL	16 SOL	3 NO.12	8A	0.128 — 0.204	165	75
N-3	6 SOL	2 SOL	16 SOL	3 NO. 9	5A	0.162 — 0.258	275	50
N-2	6 SOL	2 STR	14 STR	3 NO. 7	3A	0.162 — 0.292	275	40
N-1/0	4 SOL	1/0 STR	14 SOL	3 NO. 6	2A	0.204 — 0.375	385	20
N-2/0	2 SOL	2/0 STR	14 STR	3 NO. 5	—	0.258 — 0.418	385	15
N-3/0	2 SOL	3/0 STR	12 SOL	7 NO. 7	—	0.258 — 0.470	500	10
N-250	1/0 SOL	250 MCM	10 SOL	7 NO. 5	—	0.325 — 0.575	650	6
N-350	4/0 STR	350 MCM	8 SOL	19 NO. 7	—	0.528 — 0.682	650	4
N-500	250 MCM	500 MCM	8 SOL	19 NO. 6	—	0.575 — 0.815	825	3
N-750	350 MCM	750 MCM	8 SOL	19 NO. 5	—	0.682 — 0.999	1000	2
N-1000	500 MCM	1000 MCM	8 SOL	—	—	0.815 — 1.153	1100	2

CONNECTORS
Split Bolt Connectors
Copper Split Bolts 3 Wire
N-L Series



- SPECIFICATIONS**
- UL486A Listed Wire Connector.

- FEATURES**
- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
 - Type for three maximum wire sizes.

CAT. NO.	MAXIMUM WIRE SIZE	MIN. TAP WITH	MAX. RUN	STD. CTN. QTY.
N-8L	8 STR	14 STR		100
N-6L	6 STR	12 STR		100
N-4L	4 STR	12 STR		75
N-3L	3 STR	10 STR		40
N-2L	2 STR	10 STR		30

CONNECTORS

Split Bolt Connectors

Copper Tin Plated With Spacer Dual Rated Split Bolts
N-SP Series



SPECIFICATIONS

- UL486A/B Listed Wire Connector.
- UL486D Listed Direct Bury.

FEATURES

- Aluminum to copper (Dual Rated).
- Aluminum to aluminum.
- Steel to aluminum.
- Copper to copper.
- Steel to copper.
- Electro-finned body.
- UL listed for copper and copperweld wires only.
- Includes nut, spacer and pressure pad.

CAT. NO.	CONDUCTOR			ACSR		WIRE DIA. RANGE IN.	REC. TORQUE (IN. LB.)	STD. CTN. QTY.
	RANGE OF EQUAL MAIN & TAP		MIN. TAP WITH ONE MAX. MAIN	RANGE OF MAIN OR TAP				
	MIN.	MAX.		MIN.	MAX.			
N-6SP	14 STR	8 STR	14 STR	—	8	0.073 - 0.146	165	100
N-4SP	10 STR	6 STR	10 SOL	—	6	0.116 — 0.184	165	75
N-3SP	8 SOL	3 STR	8 SOL	6	4	0.128 — 0.258	275	50
N-2SP	8 SOL	2 STR	8 SOL	6	2	0.128 — 0.316	275	40
N-1/OSP	6 SOL	1/0 STR	10 SOL	6	1	0.162 — 0.375	385	20
N-2/OSP	6 STR	2/0 STR	10 SOL	6	1/0	0.184 — 0.419	385	15
N-3/OSP	4 STR	3/0 STR	6 SOL	6	2/0	0.198 — 0.470	500	10
N-250SP	4 STR	250 MCM	4 STR	4	4/0	0.232 — 0.575	650	6
N-350SP	3/0 STR	350 MCM	1 SOL	2/0	350	—	650	4
N-500SP	3/0 STR	500 MCM	1/0 STR	2/0	477 18/1	—	825	3
N-750SP	250 MCM	750 MCM	2/0 STR	4/0	666.6	—	1000	2
N-1000SP	250 MCM	1000 MCM	4/0 STR	300	900	—	1100	2

CONNECTORS
Split Bolt Connectors
Aluminum, Dual Rated Split Bolts
APS Series



- SPECIFICATIONS**
- UL486A/B Listed Wire Connector.

- FEATURES**
- Made from tin-plated aluminum.
 - UL-486B listed for aluminum and copper conductor combinations (Dual Rated).

CAT. NO.	RANGE OF EQUAL MAIN AND TAP (COPPER AND ALUMINUM)	WIRE DIAMETER RANGE (IN.)	RECOMMENDED TORQUE (IN. LB.)	STD. CTN. QTY.
APS06	10 SOL. – 6 STR	0.101 – 0.184	165	100
APS04	10 SOL. – 4 STR	0.101 – 0.232	165	75
APS02	8 STR. – 2 STR	0.146 – 0.292	275	40
APS11	8 SOL. – 1/0 STR	0.162 – 0.375	385	20
APS21	2 SOL. – 2/0 STR	0.257 – 0.418	390	15
APS41	6 STR. – 4/0 STR	0.368 – 0.575	650	6
APS350 (Not CSA)	2/0 STR. – 350 MCM	0.414 – 0.681	650	3
APS500	3/0 STR. – 500 MCM	0.464 – 0.814	825	2

CONNECTORS

Service Post Connectors

One-Wire Type

SPM Series



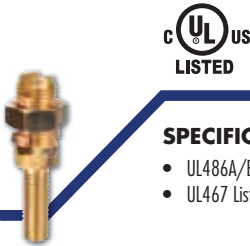
- SPECIFICATIONS**
- UL486A/B Listed Wire Connector.
 - UL467 Listed Grounding & Bonding.

- FEATURES**
- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
 - Lay-in feature makes them excellent for continuous
 - loop grounding and bonding.
 - Used to ground to bar or plate.
 - Suitable for direct burial in earth or concrete.

CAT. NO.	CONDUCTOR RANGE	STUD SIZE	HEX NUT	STD. CTN. QTY.
SPM-1L	12 SOL - 8 STR	0.250 X 20-1	0.375 X 24	25
SPM-2L	8 SOL - 7 STR	0.250 x 20-1	0.437 x 20	25
SPM-3L	10 SOL - 4 STR	0.312 x 18-1	0.500 x 20	25
SPM-4L	6 SOL - 3 STR	0.375 x 16 – 1.125	0.562 x 18	12
SPM-5L	4 STR - 2 STR	0.375 x 16 – 1.125	0.625 x 18	12
SPM-6L	6 SOL - 1/0 STR	0.500 x 13 – 1.250	0.750 x 16	12
SPM-7L	1 SOL - 2/0 STR	0.500 x 13 – 1.250	0.875 x 14	6
SPM-9L	3/0 SOL - 4/0 STR	0.625 x 11 – 1.500	1.125 x 11	3

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CONNECTORS
Service Post Connectors
Two-Wire Type
SPM Series



- SPECIFICATIONS**
- UL486A/B Listed Wire Connector.
 - UL467 Listed Grounding & Bonding.

- FEATURES**
- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
 - Lay-in feature makes them excellent for continuous
 - loop grounding and bonding.
 - Used to ground to bar or plate.
 - Suitable for direct burial in earth or concrete.

CAT. NO.	CONDUCTOR RANGE	STUD SIZE	HEX NUT	STD. CTN. QTY.
SPM-21L	12 SOL - 8 STR	0.250 X 20 – 1	0.375 X 24	25
SPM-22L	10 SOL - 7 STR	0.250 x 20 – 1	0.437 x 20	25
SPM-23L	8 SOL - 5 STR	0.312 x 18 – 1	0.500 x 20	25
SPM-24L	6 SOL - 3 STR	0.375 x 16 – 1.125	0.562 x 18	12
SPM-25L	10 SOL - 2 STR	0.375 x 16 – 1.125	0.625 x 18	12
SPM-26L	4 SOL - 1/0 STR	0.500 x 13 – 1.250	0.750 x 16	12
SPM-27L	2 SOL - 2 STR	0.500 x 13 – 1.250	0.875 x 14	6
SPM-29L	1 SOL - 4/0 STR	0.625 x 11 – 1.500	1.125 x 11	3

CONNECTORS

Tap Connectors

Two-Bolt Bronze for Copper to Copper
TC Series



FEATURES

- Made from high strength bronze castings — assurance against stress corrosion and season cracking.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

CAT. NO.	MAIN WIRE RANGE		TAP WIRE RANGE		STD. CTN. QTY.
	MAX.	MIN.	MAX.	MIN.	
TC1/0	1/0 STR	2 SOL	1/0 STR	6 SOL	10
TC2/0	2/0 STR	1 SOL	2/0 STR	6 SOL	10
TC4/0	4/0 STR	2/0 STR	4/0 STR	6 SOL	6
TC350	350 MCM	4/0 STR	350 MCM	4 SOL	5
TC500	500 MCM	350 MCM	500 MCM	4 SOL	5
TC800	800 MCM	600 MCM	800 MCM	2 SOL	3
TC1000	1000 MCM	750 MCM	1000 MCM	2 SOL	2

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CONNECTORS

TAP Connectors

Two-Bolt Bronze, Dual Rated for Aluminum, Copper & Steel
TCP Series



FEATURES

- All parts are tin plated.
- Made from high strength bronze castings with high conductivity spacer bar.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

CAT. NO.	MAIN WIRE RANGE		TAP WIRE RANGE		STD. CTN. QTY.
	MAX.	MIN.	MAX.	MIN.	
TCP1/0	1/0 STR	2 SOL	1/0 STR	6 SOL	10
TCP2/0	2/0 STR	1 SOL	2/0 STR	6 SOL	10
TCP4/0	4/0 STR	2/0 STR	4/0 STR	6 SOL	6
TCP350	350 MCM	4/0 STR	350 MCM	4 SOL	5
TCP500	500 MCM	350 MCM	500 MCM	4 SOL	5
TCP800	800 MCM	600 MCM	800 MCM	2 SOL	3
TCP1000	1000 MCM	750 MCM	1000 MCM	2 SOL	2

CONNECTORS

EASY-TAP™

Dual Rated, Insulation Piercing Connectors
IPCS Series

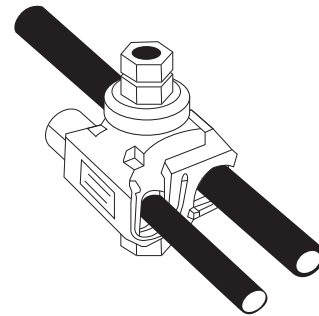


SPECIFICATIONS

- UL486B Listed Wire Connector.
- Meets ANSI C119.4 requirements.
- Temperature Rating: 90 °C.
- Voltage: 600V.

FEATURES

- Safe to use, versatile and reliable.
- No need to strip wire and totally insulated.
- No tape or cover needed.
- No contact at any point with a live part.
- Can be installed on energized conductors.
- No spacer required between connections.
- Exclusive "turbo spacer" keeps tap side open while main conductor is being tightened.
- No need for a third hand to install.
- Watertight and corrosion-free.
- Connection sealed by a rubber grommet.
- No migration of water.
- No contamination between main and tap.
- Connectors handle a large wire range of #14awg to 750mcm.
- Double shear-head bolts ensure perfect connection every time Hot spots eliminated.
- Can be used as a splice or a tap.
- Easy to install and no special tools required.
- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications.
- Suitable for solid and/or stranded wires.
- 4 sizes are approved for use with bare wire (from 4/0 to #10) - these connectors come with a blue insert which re-creates the insulation and avoids any damage to the conductor.
- *Cannot be used with bare wire or as a splice.
- **Cannot be used with bare wire. All sizes can be installed on energized main conductor, however, the tap must not be under load.
- Not recommended for use with extra-flexible cables. Not approved for submersible applications.

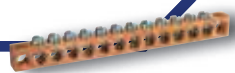


CAT. NO.	CONDUCTOR RANGE		CURRENT RATING		DIMENSIONS (IN.)			NO. OF BOLTS	STD. PACK QTY.	STD. CTN. QTY.
	MAIN AWG	TAP AWG	CU AMP	AL AMP	HEIGHT	WIDTH	LENGTH			
IPCS2001*	2/0 – 4	10 – 14	55	40	3.000	1.800	2.200	1	1	6
IPCS7501*	750 – 3/0	10 – 14	55	40	3.700	2.400	2.600	1	1	6
IPCS1002 (Not UL)	1/0 – 8	2 – 10	190	150	3.100	1.800	2.200	1	1	6
IPCS1010 (Not UL)	1/0 – 8	1/0 – 8	190	150	3.100	1.800	2.200	1	1	6
IPCS4002*	4/0 – 3	2 – 10	190	150	3.100	1.800	2.200	1	1	6
IPCS4020 (Not UL)	4/0 – 2	2/0 – 6	300	235	3.300	2.200	2.600	1	1	4
IPCS4040 (Not UL)	4/0 – 2	4/0 – 4	405	315	3.300	2.400	3.500	1	1	4
IPCS2540**	250 – 1	4/0 – 4	405	315	3.500	2.200	2.600	1	1	4
IPCS3535**	350 – 1/0	350 – 1/0	570	445	4.500	3.000	3.900	2	1	2
IPCS5040**	500 – 2/0	4/0 – 4	405	315	4.500	3.000	3.900	2	1	2
IPCS5035**	500 – 4/0	350 – 1/0	570	445	4.500	3.000	3.900	2	1	2
IPCS7550**	750 – 250	500 – 250	700	545	4.700	3.300	4.300	2	1	2

CONNECTORS

Multiple Connectors

Used in Neutral Assemblies & Grounding Applications



FEATURES

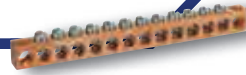
- Multiple connectors are made from either copper or aluminum bar and can be used in a variety of neutral and grounding applications. Aluminum connectors are tin plated for low contact resistance and are suitable for use with copper or aluminum conductors. Aluminum connectors are dual rated for use with aluminum and copper cables.
- Copper connectors are suitable for use with copper wire only.
- *Supplied with screws unassembled.

CAT. NO.	MATERIAL	WIRE RANGE	NO. OF CIRCUITS	TOTAL NO. OF HOLES	LENGTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	HOLE SPACING (IN.)	MTNG. HOLE POSITION	STD. CTN. QTY.
4-14-32	Aluminum	4-14	2	3	0.950	0.440	0.310	0.312	2	100
4-14-53	Aluminum	4-14	4	5	1.570	0.440	0.310	0.312	3	100
4-14-63	Aluminum	4-14	5	6	1.880	0.440	0.310	0.312	3	100
4-14-74	Aluminum	4-14	6	7	2.250	0.440	0.310	0.312	4	100
4-14-614	Aluminum	4-14	4	6	1.880	0.440	0.310	0.312	1 & 4	100
4-14-717	Aluminum	4-14	5	7	2.250	0.440	0.310	0.312	1 & 7	100
4-14-726	Aluminum	4-14	5	7	2.250	0.440	0.310	0.312	2 & 6	100
4-14-847	Aluminum	4-14	6	8	2.560	0.440	0.310	0.312	4 & 7	100
4-14-937	Aluminum	4-14	7	9	2.870	0.440	0.310	0.312	3 & 7	100
4-14-11111	Aluminum	4-14	9	11	3.500	0.440	0.310	0.312	1 & 11	50
4-14-12112	Aluminum	4-14	10	12	3.810	0.440	0.310	0.312	1 & 12	50
4-14-14114	Aluminum	4-14	12	14	4.430	0.440	0.310	0.312	1 & 14	50
4-14-17117	Aluminum	4-14	15	17	5.370	0.440	0.310	0.312	1 & 17	50
4-14-22122	Aluminum	4-14	20	22	6.930	0.440	0.310	0.312	1 & 22	50
4-14-190*	Aluminum	4-14	190	190	60.000	0.440	0.310	0.312	—	10

CONNECTORS

Multiple Connectors

Used in Neutral Assemblies & Grounding Applications
Cont'd



FEATURES

- Multiple connectors are made from either copper or aluminum bar and can be used in a variety of neutral and grounding applications. Aluminum connectors are tin plated for low contact resistance and are suitable for use with copper or aluminum conductors. Aluminum connectors are dual rated for use with aluminum and copper cables.
- Copper connectors are suitable for use with copper wire only.
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CAT. NO.	MATERIAL	WIRE RANGE	NO. OF CIRCUITS	TOTAL NO. OF HOLES	LENGTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	HOLE SPACING (IN.)	MTNG. HOLE POSITION	STD. CTN. QTY.
2-14-12311	Aluminum	2-14	10	12	4.120	0.500	0.380	0.340	3 & 11	50
2/0-14-32	Aluminum	2/0-14	2	3	1.750	0.750	0.560	0.601	2	25
2/0-14-524	Aluminum	2/0-14	3	5	2.950	0.750	0.560	0.601	2 & 4	25
2/0-14-818	Aluminum	2/0-14	6	8	4.750	0.750	0.560	0.601	1 & 8	25
4C-14-616	Copper	4-14	4	6	1.940	0.440	0.310	0.312	1 & 6	100
4C-14-717	Copper	4-14	5	7	2.250	0.440	0.310	0.312	1 & 7	100
4C-14-818	Copper	4-14	6	8	2.56	0.440	0.310	0.312	1 & 8	100
4C-14-14114	Copper	4-14	12	14	4.430	0.440	0.310	0.312	1 & 14	50
4C-14-15313	Copper	4-14	13	15	4.740	0.440	0.310	0.312	3 & 13	50
4C-14-15611	Copper	4-14	13	15	4.740	0.440	0.310	0.312	6 & 11	50
4C-190*	Copper	4-14	190	190	60.000	0.440	0.310	0.312	—	10
2C-14-515	Copper	2-14	3	5	2.000	0.500	0.380	0.397	1 & 5	50
2C-14-827	Copper	2-14	6	8	3.250	0.500	0.380	0.397	2 & 7	50

CONNECTORS
Multiple Connectors
Copper Neutral Connectors
CN Series



SPECIFICATIONS

- Temperature Rating: 90 °C.
- Voltage: 600V.

FEATURES

- NSi copper neutral connectors are manufactured from high strength pure electrolytic copper tube to ensure both maximum strength and conductivity.
- Plain copper finish.
- Suitable for use with copper conductors only.

CAT. NO.	LINE RANGE	NO. OF CIRCUITS	CIRCUIT RANGE	MTG. HOLES	LENGTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	STD. CTN. QTY.
CN70-10-1	4-14	8	6-14	2 x .20	4.370	0.750	0.340	100
CN70-14-1	4-14	12	6-14	2 x .20	5.940	0.750	0.340	100

CONNECTORS
Multiple Connectors
Combination Connectors
CB Series



FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 awg and 6-14 awg wire holes.
- Economical and compact innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.

CAT. NO.	NUMBER OF CIRCUITS		LENGTH (IN.)	STD. CTN. QTY.
	1/0-14 AWG	6-14 AWG		
CB-11	3	8	3.500	25
CB-19	5	14	5.810	25
CB-23	6	17	7.000	25
CB-120	30	90	36.000	10

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CONNECTORS

Neutral Connectors

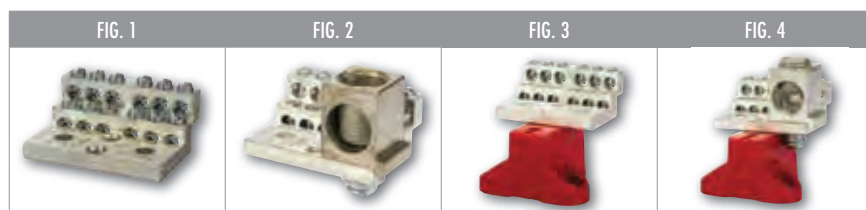
Neutral 225A 600 VAC

1024 Series



FEATURES

- These stacked neutral assemblies offer the ultimate in compact design and performance.
- Wire holes are stacked to minimize width. One-piece construction provides superior mechanical performance.
- Made from high strength 6061T-6 aluminum alloy.
- Options include a 350 mcm main lug and a high strength, glass-filled polyester mounting base for isolated mounting.
- Available in 12 to 42 wire holes (4-14 awg).



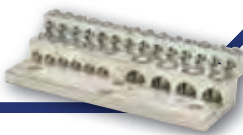
CAT. NO.	FIG. NO.	NO. OF 4-14 AWG CIRCUITS	MAIN LUG SIZE	MOUNTING BASE	LENGTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	STD. CTN. QTY.
1012	1	12	NONE	NO	2.068	0.875	1.500	1
1012M	2	12	350-6	no	2.193	1.375	1.500	1
1012B	3	12	none	yes	2.068	2.250	2.250	1
1012MB	4	12	350-6	yes	2.193	2.750	2.250	1
1018	1	18	none	no	3.132	0.875	1.500	1
1018M	2	18	350-6	no	3.257	1.375	1.500	1
1018B	3	18	none	yes	3.132	2.250	2.250	1
1018MB	4	18	350-6	yes	3.257	2.750	2.250	1
1024	1	24	none	no	4.196	0.875	1.500	1
1024M	2	24	350-6	no	4.321	1.375	1.500	1
1024B	3	24	none	yes	4.196	2.250	2.250	1
1024MB	4	24	350-6	yes	4.321	2.750	2.250	1
1030	1	30	none	no	5.260	0.875	1.500	1
1030M	2	30	350-6	no	5.385	1.375	1.500	1
1030B	3	30	none	yes	5.260	2.250	2.250	1
1030MB	4	30	350-6	yes	5.385	2.750	2.250	1
1036	1	36	none	no	6.324	0.875	1.500	1
1036M	2	36	350-6	no	6.449	1.375	1.500	1
1036B	3	36	none	yes	6.324	2.250	2.250	1
1036MB	4	36	350-6	yes	6.449	2.750	2.250	1
1042	1	42	none	no	7.388	0.875	1.500	1
1042M	2	42	350-6	no	7.513	1.375	1.500	1
1042B	3	42	none	yes	7.388	2.250	2.250	1
1042MB	4	42	350-6	yes	7.513	2.750	2.250	1

CONNECTORS

Neutral Connectors

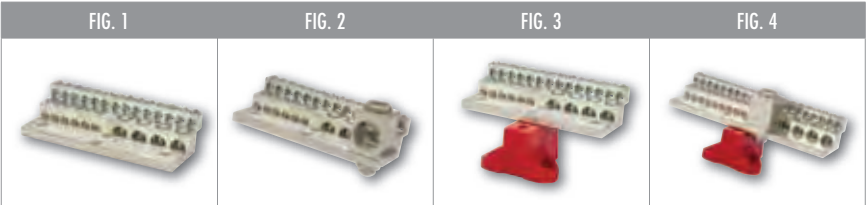
Neutral Connectors

2024 Series



FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 awg and 6-14 awg wire holes.
- Economical and compact due to innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.



CAT. NO.	FIG. NO.	NO. OF 4-14 AWG CIRCUITS	NO. OF 1/0-14 AWG CIRCUITS	MAIN LUG SIZE	MOUNTING BASE	LENGTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	STD. CTN. QTY.
2024	1	20	4	NONE	NO	4.332	1.025	1.687	1
2024M	2	20	4	350-6	No	4.457	1.525	1.687	1
2024MB	4	20	4	350-6	Yes	4.457	2.900	2.437	1
2030	1	26	4	None	No	5.244	1.025	1.687	1
2030M	2	26	4	350-6	No	5.369	1.525	1.687	1
2030B	3	26	4	None	Yes	5.244	2.400	2.437	1
2030MB	4	26	4	350-6	Yes	5.369	2.900	2.437	1
2036	1	32	4	None	No	6.156	1.025	1.687	1
2036M	2	32	4	350-6	No	6.281	1.525	1.687	1
2036MB	4	32	4	350-6	Yes	6.281	2.900	2.437	1
2042M	2	38	4	350-6	No	7.193	1.525	1.687	1
2042MB	4	38	4	350-6	Yes	7.193	2.900	2.437	1

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CONNECTORS

Splices and Taps

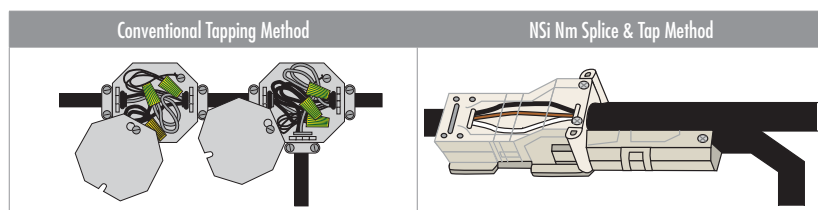
Non-Metallic Splice

NMS, NMT Series

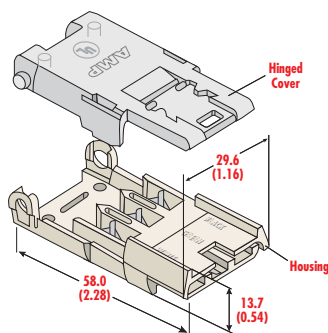


FEATURES

- The NSi NM Splice & Tap method provides a fast and reliable way to connect 12 and 14 AWG circuits using non-metallic (NM) cable. It eliminates the need for junction boxes, covers, fittings, connectors — and is approved for use in a variety of applications including: residential branch circuits, manufactured housing and pre-fabricated building structures. When adding new circuits in residential applications, NM connectors eliminate both the need to cut into the existing wiring and the extra junction boxes and associated hardware required for the tap connection.
- In factory installations within pre-fabricated structures, the NM connectors eliminate costly time-consuming on-site wiring. As individual modules are joined, splices and taps are simply snapped together easily by assembly crews with no special training or tools.
- Termination is easy. Split the cable, remove the sheathing and cut the splice conductors to length (if necessary). With the tap, individual conductors do not need to be stripped, only exposed. Clear cover installation is done with slip-joint pliers. The installation displacement contacts eliminate the need to strip individual conductors. Simply plug the connectors together and the installation is complete.
- Compliant with 2014 NEC 334.40 (A) (B).

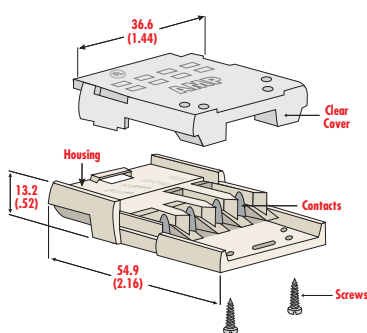


CAT. NO.	WIRE RANGE	KIT DESCRIPTION	STD. CTN. QTY.
NMS-2	12 – 14 AWG	SPLICE FOR 2-CONDUCTOR CABLE WITH GROUND	25
NMS-3	12 – 14 AWG	SPLICE FOR 3-CONDUCTOR CABLE WITH GROUND	25
NMT-2	12 – 14 AWG	SPLICE AND TAP KIT FOR 2-CONDUCTOR CABLE	12



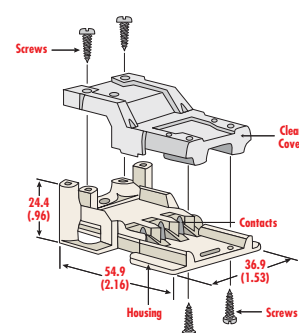
NMS - 2 (SPlice)

For splicing 12 or 14 awg solid conductor, 2-conductor cable with ground. Hinged cover makes termination fast and easy. The NMS-2 kit includes everything required to make a two conductor splice.



NMS - 3 (SPlice)

For splicing 12 or 14 awg solid conductor, 3-conductor cable with ground. The NMS-3 kit includes everything required to make a three conductor splice.



NMT - 2 (TAP)

For tapping into 12 or 14 awg solid conductor 2-conductor cable with ground. The NMT-2 kit includes everything required to complete a two conductor tap.

CONNECTORS

Connectors Accessories

Transformer Lug Kits Mechanical Set-Screw Types LK Series



SPECIFICATIONS

- UL486B listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- AL9CU.

FEATURES

- Terminal lugs are dual rated for use with both copper and aluminum cables.

CAT. NO.	TRANSFORMER KVA SIZE	TERMINAL LUGS INCLUDED			HARDWARE INCLUDED		STD. CTN. QTY.
		QTY.	LUG TYPE	WIRE RANGE	QTY.	BOLT SIZE	
LK-1	15-37-1/2 1Ø	8	2T	2-14	8	1/4-20X3/4	1
	15-45-3Ø	4	250T	250 MCM-6	8	1/4-20X3/4	1
LK-2	50-75 1Ø	12	250T	250 MCM-6	8	1/4-20 x 3/4	1
	75-112-1/2 3Ø	12	250T	250 MCM-6	8	1/4-20 x 1 3/4	1
LK-3	100-167 1Ø	3	250T	250 MCM-6	3	1/4-20 x 3/4	1
	150-300 3Ø	22	600T	600 MCM-2	16	3/8-16 x 2	1
LK-4	500 3Ø	29	600T	600 MCM-2	18	3/8-16 x 2	1
LK-5	15-25 1Ø	7	OT	1/0-14	7	1/4-20 x 1 1/2	1
	15-37 1/2 3Ø	7	OT	1/0-14	7	1/4-20 x 1 1/2	1
LK-6	37 1/2-50 1Ø	7	250T	250 MCM-6	7	5/16-16 x 1 1/2	1
	45-75 3Ø	6	350T	350 MCM-6	7	5/16-16 x 1 1/2	1
		3	OT	1/0-14	3	1/4-20 x 1	1
LK-7	225 3Ø	6	2-350T	350 MCM-6	6	1/2-13 x 2	1
		6	350T	350 MCM-6	13	3/8-16 x 1 1/2	1
LK-8	225 3Ø	3	500T	500 MCM-4	7	3/8-16 x 2	1
		4	2-600T	600 MCM-2	7	3/8-16 x 2	1
LK-9	300 3Ø	3	2-350T	350 MCM-6	7	1/2-13 x 2	1
		12	500T	500 MCM-4	4	1/2-13 x 2 1/2	1
LK-10	400-500 3Ø	16	800T	800-300 MCM	11	1/2-13 x 2 1/2	1
		3	2-600T	600 MCM-2	11	1/2-13 x 2 1/2	1



COMPRESSION CONNECTORS TOOL/DIE CHART

COMPRESSION CONNECTORS TOOL/DIE CHARTS

- **Tool and Die Charts For Copper Connectors** For Connector Series: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB

COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART												
CONNECTOR SERIES: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB											Dieless NSI N121D	
COPPER CLASS B/C CONDUCTOR SIZE	COPPER CLASS GHKM FLEX CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB, SCB SERIES ONLY	COPPER CLASS DLO CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB, SCB SERIES ONLY	MIN. # OF CRIMPS REQUIRED	COPPER COLOR CODE	NSI DIE	NSI/GREENLEE DIE	ILSCO DIE	BURNDY DIE	T&B DIE	HUSKIE DIE	COPPER CLASS B/C EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N121D	MIN. # OF CRIMPS REQUIRED
8 AWG	—	—	1	RED	—	KC12-8	ILD-1, ILD-21	U8CRT	15520	—	8 AWG	1
6 AWG	—	—	1	BLUE	CD2	KC12-6	ILD-2, ILD-24	U5CRT	15522	HT41AT	6-8 AWG	1
4 AWG	—	—	1	GREY	CD3	KC12-4	ILD-3, ILD-29	U4CRT	15527-CK	HT41AU	4-6 AWG	1
3 AWG	#4 FLEX	—	1	WHITE	—	KC12-3	ILD-29	U3CRT	—	HT41AV	3-6 AWG	1
2 AWG	—	—	1	BROWN	CD4	KC12-2	ILD-4, ILD-33	U2CRT	15528	HT41AW	2-6 AWG	1
1 AWG	#2 FLEX	—	1	GREEN	CD5	KC12-1	ILD-4, ILD-37	U1CRT-1	15513-CK	HT41AX	1-6 AWG	1
1/0 AWG	#1 FLEX	—	2	PINK	CD6	KC12-1/0	ILD-5, ILD-42	U25RT	15508	HT41AY	1/0-6 AWG	2
2/0 AWG	1/0 FLEX	—	2	BLACK	CD7	KC12-2/0	ILD-6, ILD-45	U26RT	15526	HT41AZ	2/0-4 AWG	2
3/0 AWG	2/0 FLEX	—	2	ORANGE	CD10	KC12-3/0	ILD-9, ILD-50	U27RT	15530	HT41BA	3/0-2 AWG	2
4/0 AWG	3/0 FLEX	—	2	PURPLE	CD12	KC12-4/0	ILD-10, ILD-54	U28RT	15511	HT41BC	4/0-1 AWG	2
250 MCM	4/0 FLEX	—	2	YELLOW	CD14	KC12-250	ILD-11, ILD-62	U29RT	15510-CK	HT41BE	250 MCM-1/0 AWG	2
300 MCM	250 FLEX	—	2	WHITE	CD15	KC12-300	ILD-12, ILD-66	U30RT	15534	HT41BF	300 MCM-2/0 AWG	2
350 MCM	250 FLEX	262.2	2	RED	CD16A	KC12-350	ILD-13, ILD-71	U31RT	15514-CK	HT41BJ	350 MCM-3/0 AWG	2
400 MCM	300 FLEX	313.1	2	BLUE	CD17	KC12-400	ILD-14, ILD-76	U32RT	15512	HT41BK	400 MCM-4/0 AWG	2
500 MCM	350 FLEX	373.7	2	BROWN	CD18	KC12-500	ILD-15, ILD-87	U34RT	15506	HT41BL	500 MCM-250 MCM	2
600 MCM	400 FLEX	444.4	2	GREEN	CD19	KC12-600	ILD-16, ILD-94	U36RT	15536-CK	HT41BM	600 MCM-250 MCM	2
700 MCM	500 FLEX	535.3	2	PINK	CD20	KC12-700	ILD-16A, ILD-99	U38RT	15505	HT41BM	700 MCM-350 MCM	2
750 MCM	600 FLEX	646.6	2	BLACK	CD21	KC12-750	ILD-17, ILD-106	U39RT	15515-CK	HT41BP	750 MCM-500 MCM	2
1000 MCM	750 FLEX	777.7	2	YELLOW	CD23	—	ILD-18*, ILD-125	P44RT	15603*	HT61BU*	1000 - 750 MCM	2
—	—	—	—	LISTED TOOLS	N1240 NSI-12 P-750	HK1240	ILC-12 ILC-12H ILC-15	Y-35	TBM-15 TBM-14M	EP510C	N121D M-250 M-500 RDC-1/0	N121D M-250 M-500 RDC-1/0
* REQUIRES 15 TON TOOL												

COMPRESSION CONNECTORS TOOL/DIE CHARTS

- Tool and Die Charts For Copper Connectors For Connector Series: CT, CTH

COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART						
CONNECTOR SERIES: CT, CTH						
COPPER CLASS B/C CONDUCTOR SIZE	MAIN / RUN WIRE RANGE	TAP / BRANCH WIRE RANGE	MIN. # OF CRIMPS REQUIRED	COPPER COLOR CODE	NSI DIE CODE	NSI TOOL
CT-101	12 SOL-12 STR	14 SOL-12 STR	1	RED	BARE 8	M-250
CT-102	10 STR 8 STR	10 STR 12 STR	1	LIGHT BLUE	BARE 4	RDC-1/0
CT-103	6 STR 8 STR	10-12 STR 8-10 STR	1	GREY	BARE 4	RDC-1/0
CT-104	4 STR 6 STR	8-12 STR 6-8 STR	1	BROWN	BARE 2	RDC-1/0
CT-105	4 STR 4-5 STR	6-12 STR 6-5 STR	1	GREEN	INS 2	RDC-1/0
CT-106	4 STR 4 STR	4 STR 4 STR	1	PINK	INS 2	RDC-1/0
CT-107	1 STR 2 STR 4 STR	4 STR 4 STR 4 STR	1	BLACK	BG	OD-59
CT-108	1/0 STR 1 STR 2 STR	4 STR 4 STR 2 STR	1	ORANGE	KC12-2/0	N1240
CT-109	2/0 STR 1/0 STR 1/0 STR	4 STR 2 STR 1-2 STR	2	PURPLE	KC12-4/0	N1240
CT-110	3/0 STR 2/0 STR 1/0 STR	4 STR 4 STR 4 STR	2	YELLOW	KC12-250	N1240
CTH-111	1 STR 1/0 STR 2/0 STR 3/0-4/0 STR 4/0 STR	1 STR 1/0-2 STR 2/0-4 STR 1/0-6 STR 1.8 STR	2	BLUE	KC12-250	N1240
CTH-112	2/0 STR 3/0 STR 4/0 STR 250 STR	2/0-1 STR 3/0-2 STR 4/0-4 STR 1/0-8 STR	2	BROWN	KC12-400	N1240
CTH-113	2/0 STR 3/0 STR 4/0 STR 250 STR 300 STR	2/0-1 STR 3/0-2 STR 4/0-4 STR 3/0-6 STR 2/0-8 STR	2	PINK	KC12-400	N1240
CTH-114	4/0 STR 250 STR 300 STR 350 STR	4/0-2/0 STR 250-1 STR 4/0-4 STR 3/0-6 STR	2	BLACK	KC12-500	N1240
CTH-115	250 STR 300 STR 350 STR 400 STR 450 STR 500 STR	250 STR 300-3/0 STR 350-1/0 STR 300-2 STR 250-4 STR 250-6 STR	2	YELLOW	KC12-750	N1240
CTH-116	350 STR 400 STR 450 STR 500 STR	350-4/0 STR 400-2/0 STR 450-1 STR 500-2 STR	2	WHITE	KC12-750	N1240
CTH-117	750-500 STR 750 STR	4/0-6 STR 750-4/0 STR	4	—	T&B 15603	T&B TBM-15

COMPRESSION CONNECTORS TOOL/DIE CHARTS

- Tool and Die Charts For Copper Connectors For Connector Series: CT, CTH

COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART						
CONNECTOR SERIES: CT, CTH						
COPPER CLASS B/C CONDUCTOR SIZE	MAIN / RUN WIRE RANGE	TAP / BRANCH WIRE RANGE	MIN. # OF CRIMPS REQUIRED	COPPER COLOR CODE	NSI DIE	NSI TOOL
CTH-46	4 STR	6 STR	1	—	KC12-1/0	N1240
CTH-44	6 STR 4 STR	4 STR 4 STR	1	—	KC12-1/0	N1240
CTH-24	2 SOL 2 STR	8 SOL 4 STR	1	—	C	OD581
CTH-22	2 SOL 2 STR	2 SOL 2 STR	1	—	C	OD581
CTH-2020	1/0 STR 2/0 STR	1/0 STR 2/0 STR	1	—	0	OD581
CTH-4020	3/0 STR 4/0 STR	1/0 STR 2/0 STR	1	—	D3	OD581
CTH-4040	3/0 STR 4/0 STR	3/0 STR 4/0 STR	1	—	D3	OD581

COMPRESSION CONNECTORS TOOL/DIE CHARTS

- Tool and Die Charts For Aluminum Connectors For Connector Series: AL, ALN, ASCT

ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART									Dieless NSi N12ID	
CONNECTOR SERIES: AL, ALN, ASCT									COPPER CLASS B/C	
ALUMINUM CLASS B/C CONDUCTOR SIZE	MIN. # OF CRIMPS REQUIRED	ALUMINUM COLOR CODE	NSI DIE	NSI/GREENLEE DIE	ILSCO DIE	BURNDY DIE	T&B DIE	HUSKIE DIE	EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N12ID	MIN. # OF CRIMPS REQUIRED
8 AWG	1	BLUE	CD2	KA12-8	ILD-2	U8CABT	15522	HT41GL	8 AWG	1
6 AWG	1	GREY	CD3	KA12-6	ILD-3	U6CABT	15527-CK	HT41GE	6-8 AWG	1
4 AWG	1	GREEN	CD5A	KA12-4	ILD-4	U4CABT	15313-CK	HT41GM	4-6 AWG	1
2 AWG	1	PINK	CD6A	KA12-2	ILD-7	U2CABT	15508	HT41GF	2-6 AWG	1
1 AWG	1	YELLOW	—	KA12-1	ILD-7	U1CABT	15526	—	1-6 AWG	1
1/0 AWG	2	TAN	CD9	KA12-1/0	ILD-8	U25ART	15530	HT41EX	1/0-6 AWG	2
2/0 AWG	2	OLIVE	CD11	KA12-2/0	ILD-10	U26ART	15511	HT41EY	2/0-4 AWG	2
3/0 AWG	2	RUBY	CD13	KA12-3/0	ILD-10	U27ART	15532-CK	HT41GW	3/0-2 AWG	2
4/0 AWG	2	WHITE	CD15A	KA12-4/0	ILD-12	U28ART	15534	HT41EZ	4/0-1 AWG	2
250 MCM	2	RED	CD16A	KA12-250	ILD-13	U29ART	15514-CK	HT41FW	250 MCM-1/0 AWG	2
300 MCM	2	BLUE	CD17A	KA12-300	ILD-14	U30ART	15512	HT41GZ	300 MCM-2/0 AWG	2
350 MCM	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA	350 MCM-3/0 AWG	2
400 MCM	2	GREEN	CD19A	KA12-400	ILD-16	U32ART	15536-CK	HT41HH	400 MCM-4/0 AWG	2
500 MCM	2	PINK	CD20	KA12-500	ILD-16A	U34ART	15505	HT41FB	500 MCM-250 MCM	2
600 MCM	2	BLACK	CD21A	KA12-600	ILD-17	U36ART	—	HT41HG	600 MCM-250 MCM	2
750 MCM	2	RED	CD22	KA12-750	ILD-18	U39ART-2	15504	HT41LJ	750 MCM-500 MCM	2
1000 MCM	2	BROWN	—	—	ILD-P302*	P44ART*	15602	—	—	2
—	—	LISTED TOOLS	N1240 NSI-12 P-750	HK1240	ILC-12 ILC-12H ILC-15	Y-35	TBM-15 TBM-14M	EP510C	N12ID M-250 M-500 RDC-1/0	N12ID M-250 M-500 RDC-1/0
* REQUIRES 15 TON TOOL										

COMPRESSION CONNECTORS TOOL/DIE CHARTS

• Tool and Die Charts For Aluminum Connectors For Connector Series: PT, PTO, PTS

ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART												
CONNECTOR SERIES: PT, PTO, PTS												
ALUMINUM CONDUCTOR ONLY PT SERIES	ALUMINUM CONDUCTOR ONLY PT SERIES	ALUMINUM OR COPPER CONDUCTOR PTS & PTO SERIES	ALUMINUM OR COPPER CLASS B/C CONDUCTOR SIZE PTS & PTO SERIES	PIN SIZE	MIN. # OF CRIMPS REQUIRED	COPPER COLOR CODE	NSI DIE	NSI/GREENLEE DIE	ILSCO DIE	BURNDY DIE	T&B DIE	HUSKIE DIE
—	—	PTS6	6 AWG	4 AWG	1	TAN	CD9	KA12-1/0	ILD-8	U25ART	15530	HT41EX
PT6	6 AWG	—	—	8 AWG	1	—	BG 52	—	—	—	—	—
—	—	PTS4	4 AWG	4 AWG	1	TAN	CD9	KA12-1/0	ILD-8	U25ART	15530	HT41EX
PT4	4 AWG	—	—	6 AWG	1	—	BG 52	—	—	—	—	—
—	—	PTS2	2 AWG	4 AWG	1	TAN	CD9	KA12-1/0	ILD-8	U25ART	15530	HT41EX
PT2	2 AWG	—	—	4 AWG	1	—	BG 52	—	—	—	—	—
—	—	PTS1	1 AWG	3 AWG	1	TAN	CD9	KA12-1/0	ILD-8	U25ART	15530	HT41EX
PT1	1 AWG	—	—	3 AWG	1	—	BG 52	—	—	—	—	—
—	—	PTS1/0	1/0 AWG	2 AWG	2	TAN	CD9	KA12-1/0	ILD-8	U25ART	15530	HT41EX
PT1/0	1/0 AWG	—	—	2 AWG	2	RED	CD16A	KC12-350	ILD-13, ILD-71	U31RT	15514-CK	HT41BJ
—	—	PTS2/0 PTO2/0	2/0 AWG	1 AWG	2	WHITE	CD15A	KA12-4/0	ILD-12	U28ART	15534	HT41EZ
PT2/0	2/0 AWG	—	—	1 AWG	2	RED	CD16A	KC12-350	ILD-13, ILD-71	U31RT	15514-CK	HT41BJ
—	—	PTS3/0 PTO3/0	3/0 AWG	1/0 AWG	2	WHITE	CD15A	KA12-4/0	ILD-12	U28ART	15534	HT41EZ
PT3/0	3/0 AWG	—	—	1/0 AWG	2	RED	CD16A	KC12-350	ILD-13, ILD-71	U31RT	15514-CK	HT41BJ
—	—	PTS4/0 PTO4/0	4/0 AWG	2/0 AWG	2	WHITE	CD15A	KA12-4/0	ILD-12	U28ART	15534	HT41EZ
PT4/0	4/0 AWG	—	—	2/0 AWG	2	BROWN	CD16A	KC12-350	ILD-13, ILD-71	U31RT	15514-CK	HT41BJ
—	—	PTS250 PTO250	250 MCM	3/0 AWG	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA
PT250	250 MCM	—	—	3/0 AWG	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA
—	—	PTS300 PTO300	300 MCM	4/0 AWG	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA
PT300	300 MCM	—	—	4/0 AWG	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA
—	—	PTS350 PTO350	350 MCM	250 MCM	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA
PT350	350 MCM	—	—	4/0 AWG	2	BROWN	CD18A	KA12-350	ILD-14	U31ART	15506	HT41FA
—	—	PTS400 PTO400	400 MCM	300 MCM	2	PINK	CD20	KA12-500	ILD-16A	U34ART	15505	HT41FB
PT400	400 MCM	—	—	250 MCM	2	PINK	CD20	KA12-500	ILD-16A	U34ART	15505	HT41FB
—	—	PTS500 PTO500	500 MCM	350 MCM	2	PINK	CD20	KA12-500	ILD-16A	U34ART	15505	HT41FB
PT500	500 MCM	—	—	350 MCM	2	PINK	CD20	KA12-500	ILD-16A	U34ART	15505	HT41FB
—	—	PTS600 PTO600	600 MCM	400 MCM	2	YELLOW	CD23	—	ILD-18*, ILD-125	P44RT	15603*	HT61BU*
PT600	600 MCM	—	—	350 MCM	2	YELLOW	CD23	—	ILD-18*, ILD-125	P44RT	15603*	HT61BU*
—	—	PTS750 PTO750	750 MCM	500 MCM	2	YELLOW	CD23	—	ILD-18*, ILD-125	P44RT	15603*	HT61BU*
PT750	750 MCM	—	—	500 MCM	2	YELLOW	CD23	—	ILD-18*, ILD-125	P44RT	15603*	HT61BU*
—	—	—	—	—	—	LISTED TOOLS	N1240 NSI-12 P-750	HK1240	ILC-12 ILC-12H ILC-15	Y-35	TBM-15 TBM-14M	EP510C
* REQUIRES 15 TON TOOL												

COMPRESSION CONNECTORS TOOL/DIE CHARTS

- Tool and Die Charts For Aluminum Connectos For Connector Series: WRD (H-Taps)

ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART			
CONNECTOR SERIES: WRD (H-Taps)			
PART NUMBE	DIE	# OF INDENTS W/ MECHANICAL TOOL	# OF INDENTS W/ HYDRAULIC TOOL
WRD9	5/8 BG	3	—
WRD 139	0	4	2
WRD 149	0	5	2
WRD 159	0	4	2
WRD 179	0	5	2
WRD 189	0	5	2
WRD 199	0	5	2
WRD 219	D	5	2
WRD 259	D	5	2
WRD 279	D	5	2
WRD 289	D	5	2
WRD 299	D	4	2
WRD 359	D	4	2
WRD 369	D	5	2
WRD 379	D	5	2
WRD 389	D	6	2
WRD 399	D	7	3
WRD 419	D	7	3

ABOVE DIES FOR USE WITH THESE TOOLS
0D58
0D581
0D59



CONNECTOR BLOKS™



CONNECTOR BLOKS™

Single Primary, Multiple Secondary

AS, AM, AL Series

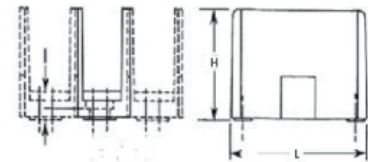
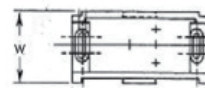


SPECIFICATIONS

- CSA.
- UL Recognize.

FEATURES

- Each block can stand alone or combine with other blocks to form a multi-block set.
- Add as many holes as you need, in any configuration you want!
- There are no end pieces or connector pieces to fool around with.
- The connector body is made from high strength, high conductivity aluminum alloy and is mounted in a high strength glass-filled polyester base.
- Default SCCR Rating 10,000 Amps.
- Connector Blok™ covers are available in 3 sizes and fits all styles and configurations.



CAT. NO.	FIG. NO.	DRAWING	CONFIGURATION PRIMARY LINE SIDE	DRAWING	SECONDARY LOAD SIDE	AMPS PER POLE	LENGTH (L) (IN.)	HEIGHT (W) (IN.)	WIDTH (H) (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
AS-K1-H4	1		2/0-14 AWG		4-14 AWG	175	2.900	2.714	1.04	1	3
AS-K1-H6	1		2/0-14 AWG		4-14 AWG	175	2.900	2.714	1.04	1	3
AM-P1-H6	1		350MCM-6 AWG		4-14 AWG	310	4.000	2.620	1.710	1	3
AM-P1-H12	1		350MCM-6 AWG		4-14 AWG	310	4.000	2.620	1.710	1	3
AL-P1-K6	1		350MCM-6 AWG		2/0-14 AWG	310	5.500	3.250	2.900	1	3
AM-R1-H12	1		500MCM-4 AWG		4-14 AWG	380	4.000	2.620	1.710	1	3
AL-R1-K6	1		500MCM-4 AWG		2/0-14 AWG	380	5.500	3.250	2.900	1	3
AL-R1-M4	1		500MCM-4 AWG		4/0-6 AWG	380	5.500	3.250	2.900	1	3
AL-V1-K6	1		1000-250 MCM		2/0-14 AWG	545	5.500	3.250	2.900	1	3
ACCESSORIES											STD. CTN. QTY.
CONNECTOR BLOK COVER											
CS	2	For use with connector Blok AS Series									12
CM	2	For use with connector Blok AM Series									9
CL	2	For use with connector Blok AL Series									6



CONNECTOR BLOKS™

Multiple Primary, Multiple Secondary

AS, AM, AL Series

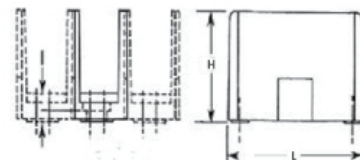
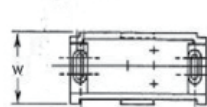


SPECIFICATIONS

- CSA.
- UL Recognize.

FEATURES

- Compact, versatile and durable.
- 90 °C and 600V.
- High-impact bases.
- One-piece connectors
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.
- Connector Blok™ covers are available in 3 sizes and fits all styles and configurations.



CONNECTOR BLOKS™

CAT. NO.	FIG. NO.	CONFIGURATION				AMPS PER POLE	LENGTH (L) (IN.)	HEIGHT (W) (IN.)	WIDTH (H) (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
		DRAWING	PRIMARY LINE SIDE	DRAWING	SECONDARY LOAD SIDE						
AS-K2-H6	1		2/0-14 AWG		4-14 AWG	350	2.900	2.714	1.040	1	3
AM-K2-H6	1		2/0-14 AWG		4-14 AWG	350	4.000	2.620	1.710	1	3
AM-K2-H12	1		2/0-14 AWG		4-14 AWG	350	4.000	2.620	1.710	1	3
AM-K2-16	1		2/0-14 AWG		2-14 AWG	350	4.000	2.620	1.710	1	3
AL-P2-H12	1		350 MCM-6 AWG		4-14 AWG	620	5.500	3.250	2.900	1	3
AL-P2-K6	1		350 MCM-6 AWG		2/0-14 AWG	620	5.500	3.250	2.900	1	3
AL-R2-H12	1		500 MCM-4 AWG		4-14 AWG	760	5.500	3.250	2.900	1	3
AL-R2-K6	1		500 MCM-4 AWG		2/0-14 AWG	760	5.500	3.250	2.900	1	3
AL-R2-M4	1		500 MCM-4 AWG		4/0-6 AWG	760	5.500	3.250	2.900	1	3
ACCESSORIES										CONNECTOR BLOK COVER	
CS	2	For use with connector Block AS Series									12
CM	2	For use with connector Block AM Series									9
CL	2	For use with connector Block AL Series									6

CONNECTOR BLOKS™

Splicer Reducer, Primary Secondary

AS, AM, AL Series

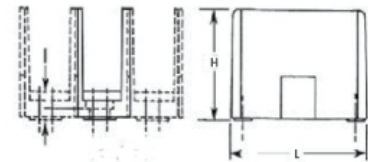
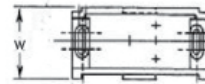


SPECIFICATIONS

- CSA.
- UL Recognize.

FEATURES

- Compact, versatile and durable.
- 90 °C and 600V.
- High-impact bases.
- One-piece connectors
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.
- Connector Blok™ covers are available in 3 sizes and fits all styles and configurations.



CAT. NO.	FIG. NO.	CONFIGURATION				AMPS PER POLE	LENGTH (L) (IN.)	HEIGHT (W) (IN.)	WIDTH (H) (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
		DRAWING	PRIMARY LINE SIDE	DRAWING	SECONDARY LOAD SIDE						
AS-I1-I1	1		2-14 AWG		2-14 AWG	115	2.900	2.714	1.040	1	3
AS-K1-K1	1		2/0-14 AWG		2/0-14 AWG	175	2.900	2.714	1.040	1	3
AM-N1-N1	1		250MCM-6 AWG		250MCM-6 AWG	310	4.000	2.620	1.710	1	3
AM-P1-P1	1		350MCM-6 AWG		350MCM-6 AWG	350	4.000	2.620	1.710	1	3
AM-R1-R1	1		500MCM-4 AWG		500MCM-4 AWG	380	4.000	2.620	1.710	1	3
AS-K2-K2	1		2/0-14 AWG		2/0-14 AWG	350	2.900	2.714	1.040	1	3
AL-P2-P2	1		350MCM-6 AWG		350MCM-6 AWG	620	5.500	3.250	2.900	1	3
AL-R2-R2	1		500MCM-4 AWG		500MCM-4 AWG	760	5.500	3.250	2.900	1	3
ACCESSORIES		CONNECTOR BLOK COVER									STD. CTN. QTY.
CS	2	For use with connector Blok AS Series									12
CM	2	For use with connector Blok AM Series									9
CL	2	For use with connector Blok AL Series									6

TERMINAL BLOCKS™

Rail Mounted Modular

DRT, FTB, DRE, DRJ Series

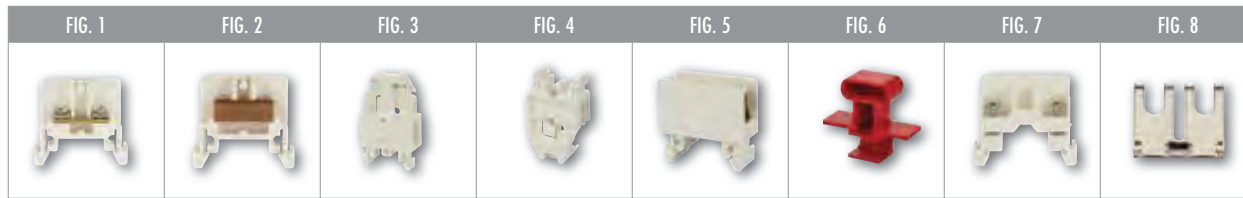


SPECIFICATIONS

- UL486A Listed, wire connector.
- Voltage: 30AMP, 600V Max.
- 35mm standard DIN rail.

FEATURES

- Cost-effective solution to connecting and terminating a wide variety of sizes and styles of wiring.
- Individual blocks can easily be inserted or removed without disturbing adjacent blocks.
- Insertion is made by snapping the block in place by hand.
- Only a screwdriver is needed for removal.
- Mounting rail is fastened by screws to the mounting surface.
- No special brackets or hardware are needed.
- Component pieces may be mixed in an assembly.
- Blocks form their own barriers.
- Blocks include integral mounting feet with screw slot for direct panel mounting, if desired.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
25 AMP TERMINAL BLOCK			
DRTB25F	1	Will accept #22 to two #12 wires per terminal and include captive wire clamps for use with stranded or solid wire or ring terminals. Flat top marking with either pen or stick-on labels. Rated 25 Amps, 600 Volts.	50
50 AMP TERMINAL BLOCK			
DRTB50	2	The DRTB50 block uses a box type connector to accept up to a #8 str. Requires only 3/8" per point, allowing 32 points per foot. Provides 3/8" square marking area. Rated 50 Amps, 600 Volts, 94V-0 Rated housing.	25
SINGLE POLE DISCONNECT			
DRDTB-1	3	The DRD Series of Disconnect Blocks may be used in a single-pole function or linked together with other disconnects to form multiple pole assemblies. Rated 15 Amps per pole. Accepts #22 to two #12 wires per terminal.	10
2 POLE DISCONNECT			
DRDTB-2	4	Two single-pole disconnects with an interlocked handle so that operation on any pole operates all poles. This unique assembly makes it possible to interlock the isolation of different control panel functions without using expensive relays or cam switches.	6
DRFTB FUSE BLOCK			
DRFTB	5	The DRFTB Fuse Block accepts 13/32" dia. by 1 1/2" long cartridge fuses through 25 Amps, 600 Volts. The fusible block requires 3/4" rail taking exactly two standard terminal blocks.	10
FUSE PULLER			
FTBFP	6	The FTBFP is supplied red as standard.	25
END BARRIER			
DREB	7	Each assembly of blocks requires only an end barrier on each end of the assembly. It acts as both the end barrier for the block and retains the blocks on the rail.	50
JUMPER			
DRJS2	8	Jumper strap from one point to another on 25 Amp terminal block.	100

TERMINAL BLOKS™**Hardware Options**

FQC, DR Series

**SPECIFICATIONS****FQC Series**

- Voltage: 30AMP, 600V Max.

DR Series

- CSA.
- UL Recognize.

FEATURES**FQC Series**

- Nickel plated.
- 0.250 x 0.30 tab size.
- 22-14AWG wire size.

DR Series

- Made from 35mm unplated 6061-T6 Aluminum alloy providing for a strong, lightweight rail for mounting sockets, terminal blocks or other electro-mechanical devices.
- Comes supplied with oval holes 1.1 cm, approximately x 0.4 cm apart.
- Standard 10mm height allows for ease of installation vs. traditional 7.5mm height.



CAT. NO.	FIG. NO.	DESCRIPTION	HEIGHT	LENGTH	STD. CTN. QTY.
FQC-00	1	Quick Disconnect – 0° Flat	—	—	10
FQC-45	2	Quick Disconnect – 45° Bend	—	—	10
FQC-90	3	Quick Disconnect – 90° Bend	—	—	10
J-30	4	30 AMP Jumper	—	—	10
DR3910	5	For Mounting Sockets, Terminal Blocks, Or Other Electro-Mechanical Devices	10 mm	39.3"	10

TERMINAL BLOKS™**Splicer/Reducers 75 Amps, 600V**

TBS Series

**SPECIFICATIONS**

- Temperature Rating: 150 °C.
- Voltage: 75AMP, 600V Max.

FEATURES

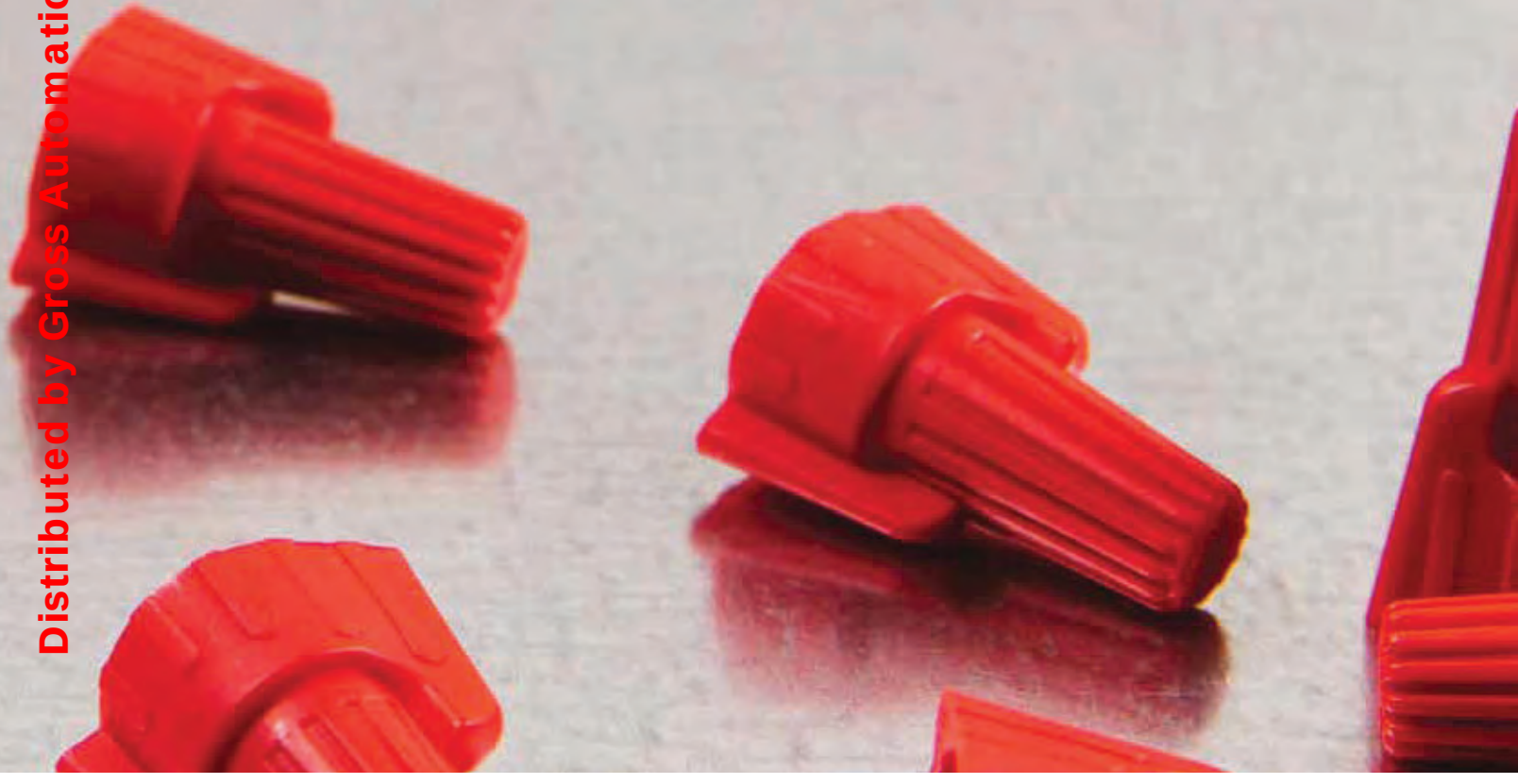
- Terminal Bloks™ power terminal blocks are made from high conductivity bodies and will accept either copper or aluminum conductors on the line side.
- The bases are manufactured from high strength phenolic compound.
- 2-14 AWG.

CAT. NO.	NO. OF POLES	WIRE RANGE	LENGTH	HEIGHT	WIDTH	STD. CTN. QTY.
TBS2-2	2	2-14 AWG CU or AL	1.750	1.250	1.500	6
TBS2-3	3	2-14 AWG CU or AL	2.380	1.250	1.500	6



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EASY-TWIST™



EASY-TWIST™

Wire Connectors

Standard Twist-On

WC Series



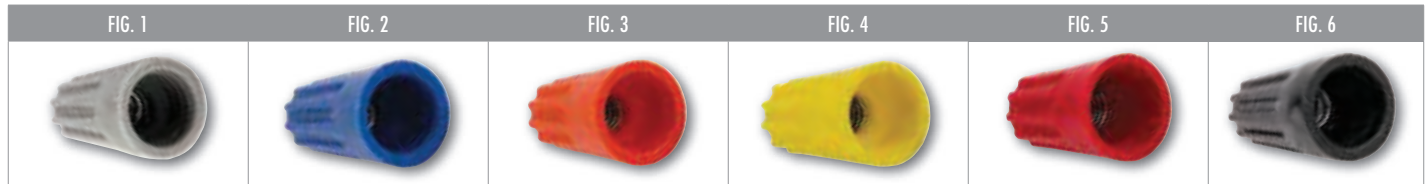
SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- Temperature Rating: 105 °C (221 °F), 150 °C (302 °F) High Temp.
- Voltage: 1,000V max. in fixtures and signs.
- Wire Type: For Copper wire only.

For Illustrations and drawings see page 136.

FEATURES

- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Sure-grip ribs improve gripping comfort.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat. No. with "B" suffix). Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



COLOR/TYPE	FIG. NO.	WIRE RANGE	MAX VOLTAGE	WIRE RANGE		MAX. SPRING WIDTH (A)	MAX. SKIRT ENTRY (B)	MAX. WIDTH (C)	MAX. SKIRT DEPTH (D)	LENGTH/HEIGHT (E)
				MIN.	MAX.					
Grey (WC)	1	22-14 AWG	300V	2 #22 AWG	1 #16 with 1 #18 with 1 #20 AWG	0.150	0.256	0.339	0.217	0.598
Blue (WC)	2	22-14 AWG	300V	2 #22 AWG	3 #16 AWG	0.161	0.280	0.390	0.217	0.697
Orange (WC)	3	22-14 AWG	600V	1 #18 with 1 #20 AWG	4 #16 with 1 #20 AWG	0.197	0.382	0.500	0.268	0.866
Yellow (WC)	4	22-10 AWG	600V	3 #20 AWG	2 #12 with 2 #14 AWG	0.236	0.433	0.551	0.268	0.969
Red (WC)	5	22-10 AWG	600V	3 #18 AWG	2 #10 SOL with 2 #12 STR	0.339	0.516	0.642	0.406	1.043
High Temp 1 (WC)	6	22-18 AWG	300V	1 #18 STR with 1 #22 STR	2 #18 STR	0.150	0.256	0.339	0.228	0.598
High Temp 3 (WC)	6	22-14 AWG	600V	1 #16 with 1 #22	1 #14 with 1 #16 with 1 #18	0.197	0.382	0.500	0.307	0.866



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EASY-TWIST™

Wire Connectors

Standard Twist-On

WC Series



SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- **Temperature Rating:** 105 °C (221 °F), 150 °C (302 °F) High Temp.
- **Voltage:** 1,000V max. in fixtures and signs.
- **Wire Type:** For Copper wire only.
- **Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.**

FEATURES

- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Sure-grip ribs improve gripping comfort.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat. No. with "B" suffix).
Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



CARTON	SMALL JAR	LARGE JAR	LARGE BAG	BULK	DRUM

COLOR/TYPE	CARTON	SMALL JAR	LARGE JAR	LARGE BAG	BULK	DRUM
Grey (WC)	WC-G-C (100) (10x100)	WC-G-SJ (300) (50x300)	—	WC-G-B (1000) (26x1000)	WC-G (25000)	—
Blue (WC)	WC-B-C (100) (10x100)	WC-B-SJ (300) (50x300)	—	WC-B-B (1000) (18x1000)	WC-B (10000)	—
Orange (WC)	WC-O-C (100) (10x100)	WC-O-CJ (100) (50x100)	WC-O-J (700) (12x700) WC-O-SJ (300) (12x300)	WC-O-B (500) (16x500)	WC-O (10000)	WC-O-D (50000)
Yellow (WC)	WC-Y-C (100) (10x100)	WC-Y-CJ (100) (50x100)	WC-Y-J (500) (12x500) WC-Y-SJ (200) (12x200)	WC-Y-B (500) (12x500)	WC-Y (10000)	WC-Y-D (35000)
Red (WC)	WC-R-C (100) (10x100)	WC-R-SJ (100) (20x100)	WC-R-J (350) (12x350)	WC-R-B (500) (8x500)	WC-R (5000)	WC-R-D (25000)
High Temp 1 (WC)	—	—	—	WC-HB1-B (1000) (26x1000)	WC-HB1 (10000)	—
High Temp 3 (WC)	—	—	—	WC-HB3-B (500) (16x500)	WC-HB3 (10000)	—

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EASY-TWIST™

Wire Connectors

Winged Twist-On

WWC Series



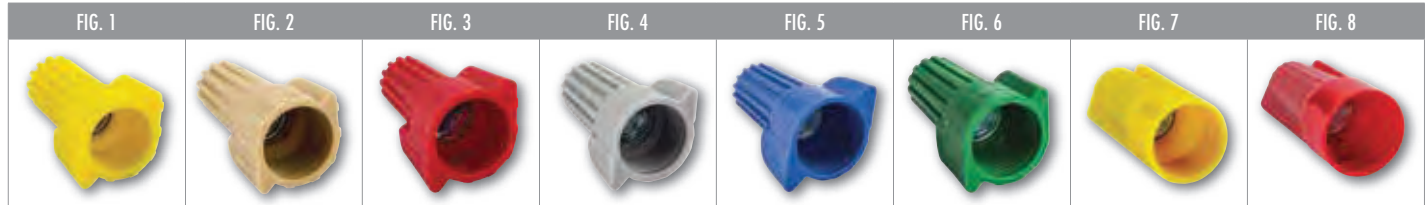
SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- WWC-GR is UL 467 Listed Grounding and Bonding.
- Temperature Rating: 105 °C (221 °F).
- Voltage: 600V max., 1,000V max. in fixtures and signs.
- Wire Type: For Copper wire only.

For Illustrations and drawings see page 136.

FEATURES

- Ergonomic, swept-back wing design provides handling comfort and increased torque ability.
- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "B" suffix). Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



COLOR/TYPE	FIG. NO.	WIRE RANGE	MAX VOLTAGE	WIRE RANGE		MAX. SPRING WIDTH (A)	MAX. SKIRT ENTRY (B)	MAX. WIDTH (C)	MAX. SKIRT DEPTH (D)	LENGTH/HEIGHT (E)
				MIN.	MAX.					
Yellow (WWC)	1	18 - 10 AWG	600V	3 #18 AWG	2 #12 with 1 #14 AWG	0.252	0.386	0.717	0.354	1.016
Tan (WWC)	2	22-8 AWG	600V	3 #22 AWG	4 #12 AWG	0.283	0.457	0.720	0.362	1.142
Red (WWC)	3	18-8 AWG	600V	3 #16 AWG	5 #12 AWG	0.354	0.512	0.906	0.378	1.252
Grey (WWC)	4	18 - 8 AWG	600V	3 #14 with 1 #18 AWG	3 #10 AWG	0.394	0.587	1.004	0.394	1.311
Blue (WWC)	5	14 - 6 AWG	600V	2 #10 with 1 #12 AWG	3 #8 with 1 #12 AWG	0.472	0.701	1.260	0.512	1.575
Green GND (WWC)	6	14-10 AWG	600V	2 #14	5 #12	0.327	0.476	0.795	0.370	1.134
Yellow N1 (WWC)	7	22 - 10 AWG	600V	4 #22 AWG	3 #12 AWG	0.287	0.429	0.492	0.417	0.992
Red N2 (WWC)	8	22 - 6 AWG	600V	3 #20 AWG	1 #8 with 3 #12 AWG	0.358	0.520	0.583	0.453	1.161



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EASY-TWIST™

Wire Connectors

Winged Twist-On

WWC Series



SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- WWC-GR is UL 467 Listed Grounding and Bonding.
- **Temperature Rating:** 105 °C (221 °F).
- **Voltage:** 600V max., 1,000V max. in fixtures and signs.
- **Wire Type:** For Copper wire only.
- **Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.**

FEATURES

- Deep surface ridges provide better grip.
- Ergonomic, swept-back wing design provides handling comfort and increased torque ability.
- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "-B" suffix).
Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



EASY-TWIST™

CARTON	SMALL JAR	LARGE JAR	LARGE BAG	BUCKET	BULK	DRUM

COLOR/TYPE	CARTON	SMALL JAR	LARGE JAR	LARGE BAG	BUCKET	BULK	DRUM
Yellow (WWC)	WWC-Y-C (100) (10x100)	WWC-Y-CJ (100) (50x100)	WWC-Y-J (550) (12x550)	WWC-Y-B (500) (13x500)	WWC-Y-BT (3,000)	WWC-Y (5000)	WWC-Y-D (35000)
Tan (WWC)	WWC-T-C (100) (10x100)	WWC-T-CJ (100) (50x100) WWC-T-SJ (100) (50x100)	WWC-T-J (450) (12x450)	WWC-T-B (500) (12x500)	WWC-T-BT (3,000)	WWC-T (5000)	WWC-T-D (30000)
Red (WWC)	WWC-R-C (100) (10x100)	WWC-R-SJ (100) (20x100)	WWC-R-J (300) (12x300)	WWC-R-B (500) (7x500)	WWC-R-BT (3,000)	WWC-R (5000)	WWC-R-D (20000)
Grey (WWC)	WWC-G-C (50) (10x50)	WWC-G-SJ (50) (32x50)	—	WWC-G-B (250) (11x250)	—	WWC-G (5000)	WWC-G-D (20000)
Blue (WWC)	WWC-B-C (50) (10x50)	WWC-B-SJ (50) (20x50)	WWC-B-J (125) (12x125)	WWC-B-B (100) (16x100)	—	WWC-B (2500)	WWC-B-D (9500)
Green GND (WWC)	WWC-GR-C (100) (10x100)	WWC-GR-SJ (100) (20x100)	WWC-GR-J (300) (12x350)	WWC-GR-B (500) (9x500)	WWC-GR-BT (3,000)	WWC-GR (5500)	WWC-GR-D (25000)
Yellow N1 (WWC)	WWC-N1-C (100) (10x100)	WWC-N1-CJ (100) (50x100)	—	WWC-N1-B (500) (13x500)	—	WWC-N1 (10000)	—
Red N2 (WWC)	WWC-N2-C (100) (10x100)	—	—	WWC-N2-B (500) (9x500)	—	WWC-N2 (10000)	—

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EASY-TWIST™

Wire Connectors

Combination Pails

ET-CP Series



SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- Temperature Rating: 105 °C (221 °F).
- Voltage: 1,000V max. in fixtures and signs.
- Wire Type: For Copper wire only.

FEATURES

- Compact, easy to carry pail, also convenient for use on maintenance cart.
- 4-pack pail includes the most common Easy-Twist™ connectors.



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CAT. NO.	FIG. NO.	PAIL CONTENTS	COLOR	WIRE RANGE	QTY. PER PAIL	STD. CTN. QTY.
ET-CP-1	1	WWC-T	Tan	22-8 AWG	70	12
		WWC-Y	Yellow	18-10 AWG	80	12
		WWC-R	Red	18-8 AWG	45	12
		WWC-B	Blue	14-6 AWG	20	12
ET-CP-2		WC-O	Orange	22-14 AWG	100	12
		WC-Y	Yellow	22-10 AWG	75	12
		WC-R	Red	22-10 AWG	50	12
		WWC-T	Tan	22-8 AWG	70	12
ET-CP-3		WC-O	Orange	22-14 AWG	100	12
		WWC-T	Tan	22-8 AWG	70	12
		WWC-Y	Yellow	18-10 AWG	80	12
		WWC-R	Red	18-8 AWG	45	12
ET-CP-11		WWC-T	Tan	22-8 AWG	40	16
		WWC-Y	Yellow	18-10 AWG	50	16
		WWC-R	Red	18-8 AWG	30	16
		WWC-B	Blue	14-6 AWG	10	16
ET-CP-12	2	WC-O	Orange	22-14 AWG	65	16
		WC-Y	Yellow	22-10 AWG	45	16
		WC-R	Red	22-10 AWG	30	16
		WWC-T	Tan	22-8 AWG	40	16
ET-CP-13		WC-O	Orange	22-14 AWG	60	16
		WWC-T	Tan	22-8 AWG	45	16
		WWC-Y	Yellow	18-10 AWG	50	16
		WWC-R	Red	18-8 AWG	30	16
ET-CP-14		WC-O	Orange	22-14 AWG	65	16
		WC-Y	Yellow	22-10 AWG	45	16
		WC-R	Red	22-10 AWG	30	16
		WC-B	Blue	22-14 AWG	100	16
ET-CP-15		WC-G	Gray	22-14 AWG	120	16
		WC-B	Blue	22-14 AWG	100	16
		WC-O	Orange	22-14 AWG	65	16
		WC-Y	Yellow	22-10 AWG	45	16

EASY-TWIST™

Wire Connectors

Push-In

PIWC Series



SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- Temperature Rating: -40 °F to 221 °F (-30 °C to 105 °C).
- Voltage: 600V max., 1,000V max. in fixtures and signs.
- Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.

For Illustrations and drawings see page 136.

FEATURES

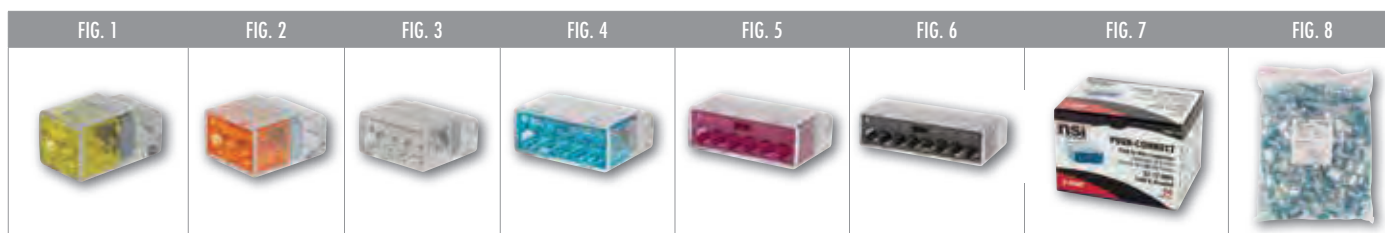
- Fast, safe and reliable installation saves time and money.
- No twisting or taping of conductors required.
- Just strip the wire, insert the connector and you are done.
- One wire per opening ensures loose connections are eliminated.
- Made of strong, UL 94V-2 flame retardant polycarbonate.
- Integrated test port enables continuity testing.
- Color coded for easy identification.
- Compact design perfect for tight spaces.
- Copper, tin-plated; stainless steel spring; steel frame, zinc-plated.
- For use with 22-12 AWG solid or stranded wire.



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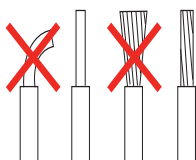
EASY-TWIST™



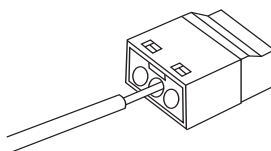
COLOR/TYPE	FIG. NO.	NO. OF PORTS	WIRE RANGE	MAX VOLTAGE	WIRE RANGE		DEPTH (A)	WIDTH (B)	FRONT HEIGHT (C)	REAR HEIGHT (D)	CASE THICKNESS (E)	FIG. 7 CARTON	FIG. 8 BAG
					MIN.	MAX.							
Yellow (PIWC)	1	2	22-12 AWG	600V	2 #22 AWG	2 #12 AWG	0.748	0.463	0.411	0.343	0.035	PIWC -2-C (100) (10x100)	PIWC-2-B (500) (14x500)
Orange (PIWC)	2	3	22-12 AWG	600V	2 #22 AWG	3 #12 AWG	0.748	0.626	0.411	0.343	0.035	PIWC -3-C (100) (10x100)	PIWC-3-B (500) (11x500)
Clear (PIWC)	3	4	22-12 AWG	600V	2 #22 AWG	4 #12 AWG	0.748	0.789	0.411	0.343	0.035	PIWC -4-C (75) (10x75)	PIWC-4-B (400) (11x400)
Blue (PIWC)	4	5	22-12 AWG	600V	2 #22 AWG	5 #12 AWG	0.748	0.953	0.411	0.343	0.035	PIWC -5-C (50) (10x50)	PIWC-5-B (300) (12x300)
Purple (PIWC)	5	6	22-12 AWG	600V	2 #22 AWG	6 #12 AWG	0.748	1.116	0.411	0.343	0.035	PIWC -6-C (50) (10x50)	PIWC-6-B (250) (12x250)
Grey (PIWC)	6	8	22-12 AWG	600V	2 #22 AWG	8 #12 AWG	0.748	1.443	0.411	0.343	0.035	PIWC -8-C (40) (10x40)	PIWC-8-B (200) (12x200)

INSTALLATION

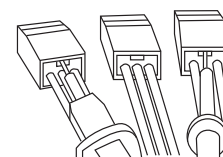
1. Turn off power. Strip wire approximately 0.45 inches (11mm).



2. Push the stripped conductor into the port of connector fully. No twisting or taping.



3. Use a voltage meter to test your connection via the port on connector.



EASY-TWIST™

Wire Connectors

Crimp Sleeve & Nylon Wire Connectors

SB, TOP, C-N Series



SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- Part # SB is UL Listed.
- Part # C-N and C-N-B are UL Listed and CSA.
- Temperature Rating:
- C-N Series 105 °C (221 °F). TOP Series 93.3333 °C (200 °F).
- Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.

For Illustrations and drawings see page 136.



FEATURES

- **Copper Crimp Sleeves:** Bullet is designed for easy installation and provide an exceptional connection.
- **Closed End Connectors:** Made from nylon 6/6 (Polyimide 66).
- **Steel Crimp Sleeves:** Economical, brass-plated steel provides an excellent low resistance connection.
- UL 94V-2 self extinguishing, closed end style.
- **Ceramics:** Made of high quality ceramics.
- Have excellent electrical and heat resistant properties.
- Maximum working temperature of 1,000 °F. For applications above 200 °F.
- Uses include appliances, high powered lighting fixtures, ceiling fans, heaters, plastic extrusion/injection molding barrels and similar high temperature applications.

FIG. 1	FIG. 2	FIG. 3	FIG. 4	BLISTER PACK	CARTON	BAG

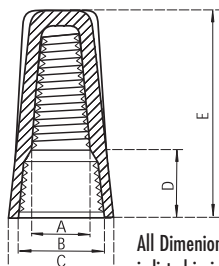
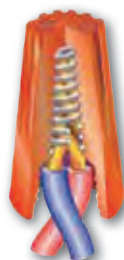
CAT. NO.	FIG. NO.	COLOR/TYPE	WIRE RANGE	MAX VOLTAGE	I.D. (A)	MAX. SKIRT ENTRY (B)	MAX. WIDTH (C)	MAX. SKIRT DEPTH (D)	LENGTH/ HEIGHT (E)	BLISTER PACK	CARTON	BAG
SB1810	1	Copper Crimp Sleeve	18-10 AWG	—	0.204	0.295	0.240	n/a	0.374	SB1810 (100) (10x100)	—	SB1810-B (1000) (10x1000)
SB1808	2	Copper Crimp Sleeve	18-8 AWG	—	0.263	0.364	0.307	n/a	0.610	SB1808 (50) (10x50)	—	SB1808-B (500) (10x500)
SB1810S	—	Steel Crimp Sleeve	18-10 AWG	—	0.204	0.295	0.240	—	0.374	SB1810S (100) (10x100)	—	SB1810S-B (1000) (10x1000)
SB1408S	—	Steel Crimp Sleeve	14-8 AWG	—	0.263	0.364	0.307	—	0.610	SB1408S (50) (10x50)	—	SB1408S-B (500) (10x500)
TOP-S-D	3	Ceramic, White	22-14 AWG	—	—	—	0.400	—	0.685	TOP-S-D (15) (15x25)	TOP-S-CD (100) (10x100)	—
TOP-M-D	3	Ceramic, White	22-10 AWG	—	—	—	0.590	—	0.818	TOP-M-D (15) (15x25)	TOP-M-CD (100) (10x100)	—
TOP-L-D	3	Ceramic, White	18-8 AWG	—	—	—	0.720	—	0.910	TOP-L-D (15) (15x25)	TOP-L-CD (100) (10x100)	—
C22-N	4	Nylon, Clear	22-18 AWG	300V	0.102	0.244	0.307	0.236	0.709	—	C22-N (100) (18x100)	C22-N-B (1000) (30x1000)
C16-N	4	Nylon, Clear	22-14 AWG	300V	0.118	0.311	0.374	0.276	0.787	—	C16-N (100) (12x100)	C16-N-B (1000) (20x1000)
C12-N	4	Nylon, Clear	22-10 AWG	300V	0.173	0.413	0.492	0.378	1.004	—	C12-N (50) (12x50)	C12-N-B (1000) (10x1000)
C8-N*	4	Nylon, Clear	16-10 AWG	300V	0.209	0.488	0.563	0.472	1.091	—	C8-N (40) (12x40)	C8-N-B (500) (12x500)



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EASY-TWIST™ Illustrations & Drawings

STANDARD TWIST-ON

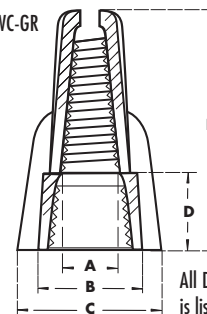


All Dimensional Data is listed in inches.

WINGED TWIST-ON



Shown: WWC-GR



All Dimensional Data is listed in inches.

WINGED GREEN CONNECTOR



WINGED GREEN GROUNDING CONNECTOR:

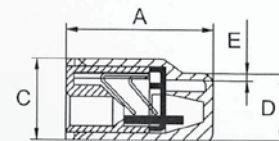
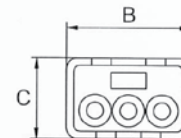
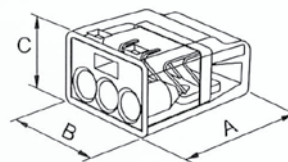
X System grounding wire.

Y System grounding wire.

Z "Through" wire between device and box ground.

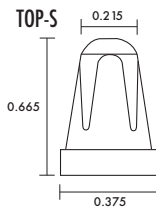
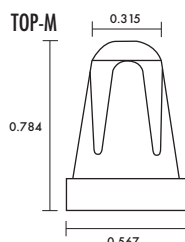
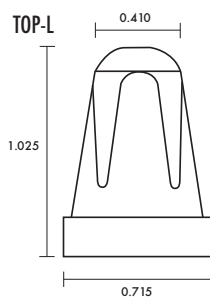
Note: If "through" wire is a jumper, be sure wire extends below skirt 6" min.

PUSH-IN

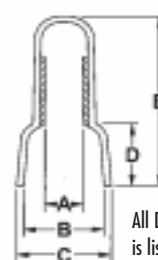
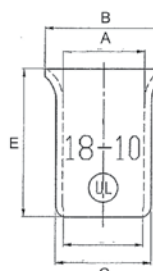
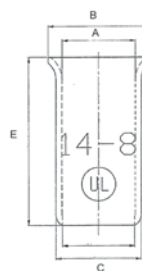


All Dimensional Data is listed in inches.

TOP



PUSH-IN



All Dimensional Data is listed in inches.

Scan QR code
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to wire combinations.





MINITERMS, SWITCHES & INDICATOR LIGHTS



MINITERMS

Butt Splices

B Series

FEATURES

- Constructed from electro-tin plated copper tubing.
- Center stop provides equal insertion of wires.
- Available in vinyl, nylon, polyolefin and un-insulated formats.

SPECIFICATIONS

- **Vinyl:** Electro tin plated copper, vinyl (PVC) 600V, 75 °C.
- **Un-Insulated:** Electro tin plated copper, 600V, 105 °C.
- **Polyolefin HS:** Electro tin plated copper, Heat shrink, 600V, 105 °C, Shrink temp 150 °C.
- **Nylon:** Electro tin plated copper, Nylon, 600V, 105 °C.

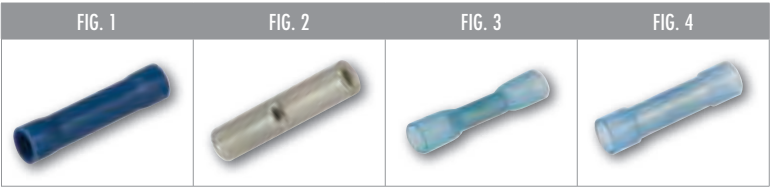


FIG. NO.	INSULATION TYPE	WIRE RANGE	RATINGS	OA LENGTH (L) (IN.)	SEAM TYPE	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
						CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Vinyl	22-18	cULus	1.024	Seamless	B22-V-S	25	B22-V-P	70	B22-V	100	B22-V-BULK	1000
1	Vinyl	16-14	cULus	1.024	Seamless	B16-V-S	20	B16-V-P	50	B16-V	100	B16-V-BULK	1000
1	Vinyl	12-10	cULus	1.024	Seamless	B12-V-S	15	B12-V-P	30	B12-V	50	B12-V-BULK	500
1	Vinyl	8	—	1.398	Seamless	—	—	B8-V-P	10	B8-V	50	B8-V-BULK	250
1	Vinyl	6	UL	1.855	Seamless	—	—	—	—	B6-V	50	B6-V-BULK	100
2	Un-insulated	22-18	cULus	0.472	Seamless	—	—	—	—	B22	100	B22-BULK	1000
2	Un-insulated	16-14	cULus	0.591	Seamless	—	—	—	—	B16	100	B16-BULK	1000
2	Un-insulated	12-10	cULus	0.591	Seamless	—	—	—	—	B12	50	B12-BULK	1000
2	Un-insulated	8	UL	0.827	Seamless	—	—	—	—	B8	50	B8-BULK	1000
3	Polyolefin HS	22-18	—	0.945	Seamless	—	—	—	—	SB22	25	SB22-BULK	500
3	Polyolefin HS	16-14	—	1.457	Seamless	—	—	—	—	SB16	25	SB16-BULK	500
3	Polyolefin HS	12-10	—	1.614	Seamless	—	—	—	—	SB12	50	SB12-BULK	500
4	Nylon	22-18	cULus	1.024	Seamless	—	—	—	—	B22-N	100	B22-N-BULK	1000
4	Nylon	16-14	cULus	1.024	Seamless	—	—	—	—	B16-N	100	B16-N-BULK	1000
4	Nylon	12-10	cULus	1.063	Seamless	—	—	—	—	B12-N	50	B12-N-BULK	500

MINITERMS

Spade Terminals: Locking

S Series

SPECIFICATIONS

- **Vinyl:** Electro tin plated copper, vinyl (PVC) 600V, 75 °C.
- **Un-Insulated:** Electro tin plated copper, 600V, 105 °C.
- **Nylon:** Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.

FEATURES

- Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.
- Constructed from electro-tin plated copper tubing.
- Available in vinyl, nylon, and un-insulated formats.



FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN)	WIDTH (W) (IN)	SEAM TYPE	PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Vinyl	22-18	#10	cULus	0.827	0.315	Butted	—	—	S22-10V-L	100	S22-10V-L-BULK	1000
1	Vinyl	22-18	#6	cULus	0.827	0.228	Butted	—	—	S22-6V-L	100	S22-6V-L-BULK	1000
1	Vinyl	22-18	#8	cULus	0.827	0.315	Butted	—	—	S22-8V-L	100	S22-8V-L-BULK	1000
1	Vinyl	16-14	#10	cULus	0.866	0.335	Butted	S16-10V-L-P	85	S16-10V-L	100	S16-10V-L-BULK	1000
1	Vinyl	16-14	#6	cULus	0.827	0.228	Butted	—	—	S16-6V-L	100	S16-6V-L-BULK	1000
1	Vinyl	16-14	#8	cULus	0.827	0.283	Butted	S16-8V-L-P	85	S16-8V-L	50	S16-8V-L-BULK	1000
1	Vinyl	12-10	#10	cULus	0.992	0.374	Butted	—	—	S12-10V-L	50	S12-10V-L-BULK	500
1	Vinyl	12-10	#6	cULus	0.992	0.335	Butted	—	—	S12-6V-L	50	S12-6V-L-BULK	500
1	Vinyl	12-10	#8	cULus	0.992	0.335	Butted	—	—	S12-8V-L	50	S12-8V-L-BULK	500
2	Un-insulated	22-18	#10	UL	0.694	0.340	Brazed	—	—	S22-10-L	100	S22-10-L-BULK	1000
2	Un-insulated	22-18	#6	UL	0.585	0.260	Brazed	—	—	S22-6-L	100	S22-6-L-BULK	1000
2	Un-insulated	22-18	#8	UL	0.646	0.261	Brazed	—	—	S22-8-L	100	S22-8-L-BULK	1000
2	Un-insulated	16-14	#10	UL	0.694	0.340	Brazed	—	—	S16-10-L	100	S16-10-L-BULK	1000
2	Un-insulated	16-14	#6	UL	0.585	0.260	Brazed	—	—	S16-6-L	100	S16-6-L-BULK	1000
2	Un-insulated	16-14	#8	UL	0.646	0.320	Brazed	—	—	S16-8-L	100	S16-8-L-BULK	1000
2	Un-insulated	12-10	#10	UL	0.773	0.340	Brazed	—	—	S12-10-L	50	S12-10-L-BULK	1000
2	Un-insulated	12-10	#6	UL	0.664	0.260	Brazed	—	—	S12-6-L	50	S12-6-L-BULK	1000
2	Un-insulated	12-10	#8	UL	0.646	0.261	Brazed	—	—	S12-8-L	50	S12-8-L-BULK	1000
3	Nylon	22-18	#8	UL	0.866	0.315	Butted	—	—	S22-8N-L	100	S22-8N-L-BULK	1000
3	Nylon	16-14	#10	UL	0.906	0.335	Butted	—	—	S16-10N-L	100	S16-10N-L-BULK	1000
3	Nylon	16-14	#6	UL	0.866	0.328	Butted	—	—	S16-6N-L	100	S16-6N-L-BULK	1000
3	Nylon	16-14	#8	UL	0.866	0.283	Butted	—	—	S16-8N-L	100	S16-8N-L-BULK	1000
3	Nylon	12-10	#10	UL	1.012	0.374	Butted	—	—	S12-10N-L	50	S12-10N-L-BULK	1000
3	Nylon	12-10	#8	UL	1.012	0.335	Butted	—	—	S12-8N-L	50	S12-8N-L-BULK	1000

MINITERMS

Flange Spade Terminals

S Series

FEATURES

- Vinyl, Un-Insulated and Nylon Flange Spades have turned up edges giving this spade more safety and reliability. Flanges give a location and locking action that aid in installation.
- Available in vinyl, nylon, polyolefin and un-insulated formats.

SPECIFICATIONS

- **Vinyl:** Electro tin plated copper, vinyl (PVC) 600V, 75 °C.
- **Un-Insulated:** Electro tin plated copper, 600V, 105 °C.
- **Nylon:** Electro tin plated copper, Nylon, 600V, 105 °C.



FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (IN)	WIDTH (IN)	SEAM TYPE	STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY
1	Vinyl	22-18	#6	UL	0.836	0.301	Butted	S22-6V-F	100	S22-6V-F-BULK	1000
1	Vinyl	22-18	#8	UL	0.836	0.301	Butted	S22-8V-F	100	S22-8V-F-BULK	1000
1	Vinyl	16-14	#10	UL	0.850	0.301	Butted	S16-10V-F	100	S16-10V-F-BULK	1000
1	Vinyl	16-14	#6	UL	0.850	0.301	Butted	S16-6V-F	100	S16-6V-F-BULK	1000
1	Vinyl	16-14	#8	UL	0.850	0.301	Butted	S16-8V-F	100	S16-8V-F-BULK	1000
1	Vinyl	12-10	#10	UL	1.075	0.320	Butted	S12-10V-F	50	S12-10V-F-BULK	1000
1	Vinyl	12-10	#8	UL	1.075	0.320	Butted	S12-8V-F	50	S12-8V-F-BULK	1000
2	Un-insulated	16-14	#10	UL	0.635	0.300	Brazed	S16-10-F	100	S16-10-F-BULK	1000
2	Un-insulated	16-14	#6	UL	0.570	0.301	Brazed	S16-6-F	100	S16-6-F-BULK	1000
3	Nylon	22-18	#6	UL	0.885	0.294	Butted	S22-6N-F	100	S22-6N-F-BULK	1000
3	Nylon	16-14	#10	UL	0.910	0.293	Butted	S16-10N-F	100	S16-10N-F-BULK	1000
3	Nylon	16-14	#6	UL	0.910	0.293	Butted	S16-6N-F	100	S16-6N-F-BULK	1000
3	Nylon	16-14	#8	UL	0.908	0.294	Butted	S16-8N-F	100	S16-8N-F-BULK	1000
3	Nylon	12-10	#10	UL	0.770	0.385	Butted	S12-10N-F	50	S12-10N-F-BULK	1000

MINITERMS

Block Spade Terminals

S Series

SPECIFICATIONS

- **Vinyl:** Electro tin plated copper vinyl (PVC) 300V, 75 °C.
- **Un-Insulated:** Electro tin plated copper 600V, 105 °C.
- **Nylon:** Electro tin plated copper Nylon, 600V, 105 °C.

FEATURES

- Vinyl, Un-Insulated and Nylon Block Spades have Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.
- Available in vinyl, nylon, polyolefin and un-insulated formats.

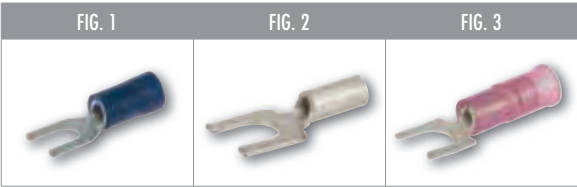


FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (IN)	WIDTH (IN)	SEAM TYPE	STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY
1	Vinyl	22-18	#10	UL	0.831	0.297	Butted	S22-10V-B	100	S22-10V-B-BULK	1000
1	Vinyl	22-18	#6	UL	0.560	0.301	Butted	S22-6V-B	100	S22-6V-B-BULK	1000
1	Vinyl	22-18	#8	UL	0.822	0.296	Butted	S22-8V-B	100	S22-8V-B-BULK	1000
1	Vinyl	16-14	#10	UL	—	—	Butted	S16-10V-B	100	S16-10V-B-BULK	1000
1	Vinyl	16-14	#6	UL	0.828	0.251	Butted	S16-6V-B	100	S16-6V-B-BULK	1000
1	Vinyl	16-14	#8	UL	0.781	0.295	Butted	S16-8V-B	100	S16-8V-B-BULK	1000
2	Un-insulated	22-18	#6	UL	0.560	0.255	Brazed	S22-6-B	100	S22-6-B-BULK	1000
2	Un-insulated	22-18	#8	UL	0.560	0.301	Brazed	S22-8-B	100	S22-8-B-BULK	1000
2	Un-insulated	16-14	#10	—	0.560	0.301	Brazed	S16-10-B	100	S16-10-B-BULK	1000
2	Un-insulated	16-14	#6	UL	0.736	0.332	Brazed	S16-6-B	100	S16-6-B-BULK	1000
2	Un-insulated	16-14	#8	UL	0.736	0.329	Brazed	S16-8-B	100	S16-8-B-BULK	1000
3	Nylon	22-18	#10	UL	0.904	0.293	Butted	S22-10N-B	100	S22-10N-B-BULK	1000
3	Nylon	22-18	#6	UL	0.904	0.297	Butted	S22-6N-B	100	S22-6N-B-BULK	1000
3	Nylon	16-14	#10	—	0.556	0.305	Butted	S16-10N-B	100	S16-10N-B-BULK	1000
3	Nylon	16-14	#6	UL	0.940	0.245	Butted	S16-6N-B	100	S16-6N-B-BULK	1000
3	Nylon	16-14	#8	UL	0.940	0.295	Butted	S16-8N-B	100	S16-8N-B-BULK	1000

MINITERMS
Spade Terminals
S Series

SPECIFICATIONS

- Vinyl: Electro tin plated copper, vinyl (PVC) 300V, 75 °C.
- Un-Insulated: Electro tin plated copper, 600V, 105 °C.

FEATURES

- Vinyl and Un-Insulated Spade Terminal have open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

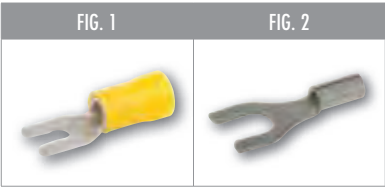


FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Vinyl	22-18	1/4	cULus	1.070	0.472	Butted	—	—	—	—	S22-14V	100	S22-14V-BULK	1000
1	Vinyl	22-18	#10	cULus	0.826	0.374	Butted	S22-10V-S	25	S22-10V-P	100	S22-10V	100	S22-10V-BULK	1000
1	Vinyl	22-18	#4	cULus	0.817	0.251	Butted	—	—	—	—	S22-4V	100	S22-4V-BULK	1000
1	Vinyl	22-18	#6	cULus	0.826	0.228	Butted	S22-6V-S	25	S22-6V-P	100	S22-6V	100	S22-6V-BULK	1000
1	Vinyl	22-18	#8	cULus	0.826	0.283	Butted	S22-8V-S	25	S22-8V-P	100	S22-8V	100	S22-8V-BULK	1000
1	Vinyl	16-14	1/4	cULus	0.812	0.543	Butted	—	—	—	—	S16-14V	100	S16-14V-BULK	1000
1	Vinyl	16-14	#10	cULus	0.966	0.362	Butted	S16-10V-S	20	S16-10V-P	85	S16-10V	100	S16-10V-BULK	1000
1	Vinyl	16-14	#6	cULus	0.966	0.388	Butted	S16-6V-S	20	S16-6V-P	85	S16-6V	100	S16-6V-BULK	1000
1	Vinyl	16-14	#8	cULus	1.103	0.388	Butted	S16-8V-S	20	S16-8V-P	85	S16-8V	100	S16-8V-BULK	1000
1	Vinyl	12-10	1/4	cULus	1.103	0.375	Butted	S12-14V-S	12	S12-14V-P	40	S12-14V	50	S12-14V-BULK	500
1	Vinyl	12-10	#10	cULus	1.103	0.375	Butted	S12-10V-S	15	S12-10V-P	50	S12-10V	50	S12-10V-BULK	500
1	Vinyl	12-10	#6	cULus	1.103	0.375	Butted	S12-6V-S	15	S12-6V-P	50	S12-6V	50	S12-6V-BULK	500
1	Vinyl	12-10	#8	cULus	0.690	0.316	Butted	S12-8V-S	15	S12-8V-P	50	S12-8V	50	S12-8V-BULK	500
2	Un-insulated	22-18	#10	UL	0.623	0.251	Brazed	—	—	—	—	S22-10	100	S22-10-BULK	1000
2	Un-insulated	22-18	#4	UL	0.629	0.228	Brazed	—	—	—	—	S22-4	100	S22-4-BULK	1000
2	Un-insulated	22-18	#6	cULus	0.778	0.316	Brazed	—	—	—	—	S22-6	100	S22-6-BULK	1000
2	Un-insulated	22-18	#8	UL	0.770	0.388	Brazed	—	—	—	—	S22-8	100	S22-8-BULK	1000
2	Un-insulated	16-14	#10	cULus	0.638	0.245	Brazed	—	—	S16-10-P	100	S16-10	100	S16-10-BULK	1000
2	Un-insulated	16-14	#6	cULus	0.635	0.295	Brazed	—	—	—	—	S16-6	100	S16-6-BULK	1000
2	Un-insulated	16-14	#8	UL	1.000	0.492	Brazed	—	—	S16-8-P	100	S16-8	100	S16-8-BULK	1000
2	Un-insulated	12-10	1/4	—	0.812	0.375	Brazed	—	—	—	—	S12-14	50	S12-14-BULK	1000
2	Un-insulated	12-10	#10	cULus	0.812	0.375	Brazed	—	—	—	—	S12-10	50	S12-10-BULK	1000
2	Un-insulated	12-10	#6	UL	0.812	0.375	Brazed	—	—	—	—	S12-6	50	S12-6-BULK	1000
2	Un-insulated	12-10	#8	cULus	0.953	0.471	Brazed	—	—	—	—	S12-8	50	S12-8-BULK	1000
2	Un-insulated	8	1/4	—	0.956	0.471	Brazed	—	—	—	—	S8-14	50	S8-14-BULK	100
2	Un-insulated	8	#10	—	1.033	0.322	Brazed	—	—	—	—	S8-10	50	S8-10-BULK	100

MINITERMS
Spade Terminals
S Series Cont'd

SPECIFICATIONS

- Nylon: Electro tin plated copper, Nylon, 600V, 105 °C.

FEATURES

- Nylon Spade Terminal have open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.



FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY
3	Nylon	22-18	#10	UL	0.727	0.187	Butted	S22-10N	100	S22-10N-BULK	1000
3	Nylon	22-18	#4	UL	1.031	0.319	Butted	S22-4N	100	S22-4N-BULK	1000
3	Nylon	22-18	#6	UL	0.898	0.286	Butted	S22-6N	100	S22-6N-BULK	1000
3	Nylon	22-18	#8	UL	1.022	0.472	Butted	S22-8N	100	S22-8N-BULK	1000
3	Nylon	16-14	1/4	—	0.898	0.338	Butted	S16-14N	100	S16-14N-BULK	1000
3	Nylon	16-14	#10	cULus	0.855	0.255	Butted	S16-10N	100	S16-10N-BULK	1000
3	Nylon	16-14	#6	cULus	0.855	0.286	Butted	S16-6N	100	S16-6N-BULK	1000
3	Nylon	16-14	#8	cULus	1.221	0.476	Butted	S16-8N	100	S16-8N-BULK	1000
3	Nylon	12-10	1/4	cULus	1.024	0.375	Butted	S12-14N	50	S12-14N-BULK	500
3	Nylon	12-10	#10	cULus	1.000	0.336	Butted	S12-10N	50	S12-10N-BULK	500
3	Nylon	12-10	#6	cULus	1.000	0.375	Butted	S12-6N	50	S12-6N-BULK	500
3	Nylon	12-10	#8	cULus	1.256	0.474	Butted	S12-8N	50	S12-8N-BULK	500
3	Nylon	8	1/4	—	1.256	0.474	Butted	S8-14N	50	S8-14N-BULK	500
3	Nylon	8	#10	—	1.256	0.474	Butted	S8-10N	50	S8-10N-BULK	500

MINITERMS

Vinyl Ring Terminals

R Series

SPECIFICATIONS

- Vinyl: Electro tin plated copper, vinyl (PVC) 600V, 75 °C.

FEATURES

- Vinyl Ring Terminal have Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

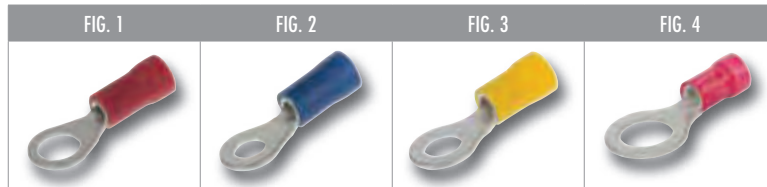


FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Vinyl	22-18	1/4	cULus	1.055	0.456	Butted	—	—	—	—	R22-14V	100	R22-14V-BULK	1000
1	Vinyl	22-18	5/16	UL	1.085	0.464	Butted	—	—	—	—	R22-56V	100	R22-56V-BULK	1000
1	Vinyl	22-18	3/8	UL	1.306	0.534	Butted	—	—	—	—	R22-38V	100	R22-38V-BULK	1000
1	Vinyl	22-18	#10	cULus	0.826	0.314	Butted	R22-10V-S	25	R22-10V-P	100	R22-10V	100	R22-10V-BULK	1000
1	Vinyl	22-18	#6	cULus	0.826	0.314	Butted	R22-6V-S	25	—	—	R22-6V	100	R22-6V-BULK	1000
1	Vinyl	22-18	#8	cULus	0.826	0.314	Butted	R22-8V-S	25	R22-8V-P	100	R22-8V	100	R22-8V-BULK	1000
2	Vinyl	16-14	1/4	cULus	1.062	0.472	Butted	—	—	R16-14V-P	70	R16-14V	100	R16-14V-BULK	1000
2	Vinyl	16-14	5/16	cULus	1.062	0.472	Butted	—	—	—	—	R16-56V	100	R16-56V-BULK	1000
2	Vinyl	16-14	3/8	cULus	1.208	0.535	Butted	—	—	—	—	R16-38V	100	R16-38V-BULK	1000
2	Vinyl	16-14	1/2	—	1.348	0.745	Butted	—	—	—	—	R16-50V	100	R16-50V-BULK	1000
2	Vinyl	16-14	#10	cULus	0.866	0.334	Butted	R16-10V-S	25	R16-10V-P	90	R16-10V	100	R16-10V-BULK	1000
2	Vinyl	16-14	#6	cULus	0.767	0.259	Butted	R16-6V-S	25	R16-6V-P	90	R16-6V	100	R16-6V-BULK	1000
2	Vinyl	16-14	#8	cULus	0.866	0.334	Butted	R16-8V-S	25	R16-8V-P	90	R16-8V	100	R16-8V-BULK	1000
3	Vinyl	12-10	1/4	cULus	1.141	0.472	Butted	R12-14V-S	20	R12-14V-P	50	R12-14V	50	R12-14V-BULK	500
3	Vinyl	12-10	5/16	cULus	1.326	0.59	Butted	—	—	—	—	R12-56V	50	R12-56V-BULK	500
3	Vinyl	12-10	3/8	cULus	1.326	0.59	Butted	R12-38V-S	10	—	—	R12-38V	50	R12-38V-BULK	500
3	Vinyl	12-10	1/2	cULus	1.499	0.755	Butted	—	—	—	—	R12-50V	50	R12-50V-BULK	500
3	Vinyl	12-10	#10	cULus	1.003	0.374	Butted	R12-10V-S	10	R12-10V-P	50	R12-10V	50	R12-10V-BULK	500
3	Vinyl	12-10	#6	cULus	1.003	0.374	Butted	—	—	—	—	R12-6V	50	R12-6V-BULK	500
3	Vinyl	12-10	#8	cULus	1.003	0.374	Butted	R12-8V-S	15	R12-8V-P	50	R12-8V	50	R12-8V-BULK	500
4	Vinyl	8	1/4	UL	1.27	0.374	Butted	—	—	—	—	R8-14V	50	R8-14V-BULK	250
4	Vinyl	8	5/16	UL	1.31	0.328	Butted	—	—	—	—	R8-56V	50	R8-56V-BULK	250
4	Vinyl	8	3/8	UL	1.43	0.583	Butted	—	—	—	—	R8-38V	50	R8-38V-BULK	250
4	Vinyl	8	1/2	UL	1.73	0.81	Butted	—	—	—	—	R8-50V	50	R8-50V-BULK	250
4	Vinyl	8	#10	UL	1.27	0.374	Butted	—	—	—	—	R8-10V	50	R8-10V-BULK	250

MINITERMS

Uninsulated Ring Terminals

R Series

SPECIFICATIONS

- Un-Insulated Electro tin plated copper, 600V, 105 °C.

FEATURES

- Uninsulated Ring Terminal have Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.



FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Un-insulated	22-18	1/4	UL	0.894	0.255	Brazed	—	—	R22-14	100	R22-14-BULK	1000
1	Un-insulated	22-18	5/16	UL	0.893	0.323	Brazed	—	—	R22-56	100	R22-56-BULK	1000
1	Un-insulated	22-18	3/8	UL	1.097	0.38	Brazed	—	—	R22-38	100	R22-38-BULK	1000
1	Un-insulated	22-18	#10	cULus	0.629	0.314	Brazed	—	—	R22-10	100	R22-10-BULK	1000
1	Un-insulated	22-18	#6	UL	0.702	0.312	Brazed	—	—	R22-6	100	R22-6-BULK	1000
1	Un-insulated	22-18	#8	cULus	0.629	0.314	Brazed	—	—	R22-8	100	R22-8-BULK	1000
2	Un-insulated	16-14	1/4	cULus	0.866	0.472	Brazed	—	—	R16-14	100	R16-14-BULK	1000
2	Un-insulated	16-14	5/16	UL	0.892	0.472	Brazed	—	—	R16-56	100	R16-56-BULK	1000
2	Un-insulated	16-14	3/8	cULus	1.011	0.535	Brazed	—	—	R16-38	100	R16-38-BULK	1000
2	Un-insulated	16-14	1/2	—	1.123	0.748	Brazed	—	—	R16-50	100	R16-50-BULK	1000
2	Un-insulated	16-14	#10	cULus	0.669	0.334	Brazed	R16-10-P	125	R16-10	100	R16-10-BULK	1000
2	Un-insulated	16-14	#6	UL	0.704	0.313	Brazed	—	—	R16-6	100	R16-6-BULK	1000
2	Un-insulated	16-14	#8	cULus	0.669	0.334	Brazed	R16-8-P	125	R16-8	100	R16-8-BULK	1000
3	Un-insulated	12-10	1/4	cULus	0.885	0.472	Brazed	—	—	R12-14	50	R12-14-BULK	1000
3	Un-insulated	12-10	5/16	cULus	1.07	0.59	Brazed	—	—	R12-56	50	R12-56-BULK	500
3	Un-insulated	12-10	3/8	cULus	1.07	0.59	Brazed	—	—	R12-38	50	R12-38-BULK	500
3	Un-insulated	12-10	1/2	—	1.284	0.755	Brazed	—	—	R12-50	50	R12-50-BULK	500
3	Un-insulated	12-10	#10	cULus	0.74	0.372	Brazed	R12-10-P	80	R12-10	50	R12-10-BULK	1000
3	Un-insulated	12-10	#6	UL	0.766	0.374	Brazed	—	—	R12-6	50	R12-6-BULK	500
3	Un-insulated	12-10	#8	UL	0.766	0.376	Brazed	—	—	R12-8	50	R12-8-BULK	500
4	Un-insulated	8	1/4	UL	0.956	0.457	Brazed	—	—	R8-14	50	R8-14-BULK	500
4	Un-insulated	8	5/16	UL	0.952	0.471	Brazed	—	—	R8-56	50	R8-56-BULK	500
4	Un-insulated	8	3/8	UL	1.083	0.59	Brazed	—	—	R8-38	50	R8-38-BULK	500
4	Un-insulated	8	#10	UL	0.955	0.47	Brazed	—	—	R8-10	50	R8-10-BULK	500
5	Un-insulated	#6	1/4	UL	1.253	0.634	Brazed	—	—	R6-14	50	R6-14-BULK	500
5	Un-insulated	#6	5/16	UL	1.243	0.635	Brazed	—	—	R6-56	50	R6-56-BULK	500
5	Un-insulated	#6	3/8	UL	1.239	0.635	Brazed	—	—	R6-38	50	R6-38-BULK	500
5	Un-insulated	#6	1/2	UL	1.434	0.827	Brazed	—	—	R6-50	50	R6-50-BULK	500
5	Un-insulated	#6	#10	UL	1.18	0.485	Brazed	—	—	R6-10	50	R6-10-BULK	500
6	Un-insulated	#4	1/4	UL	1.245	0.469	Brazed	—	—	R4-14	25	R4-14-BULK	500
6	Un-insulated	#4	5/16	UL	1.25	0.476	Brazed	—	—	R4-56	25	R4-56-BULK	500
6	Un-insulated	#4	3/8	UL	1.34	0.665	Brazed	—	—	R4-38	25	R4-38-BULK	500
6	Un-insulated	#4	1/2	UL	1.327	0.665	Brazed	—	—	R4-50	25	R4-50-BULK	500
7	Un-insulated	#2	1/4	UL	1.563	0.636	Brazed	—	—	R2-14	25	R2-14-BULK	500
7	Un-insulated	#2	5/16	UL	1.673	0.868	Brazed	—	—	R2-56	25	R2-56-BULK	500
7	Un-insulated	#2	3/8	UL	1.563	0.635	Brazed	—	—	R2-38	25	R2-38-BULK	500
7	Un-insulated	#2	1/2	UL	1.677	0.868	Brazed	—	—	R2-50	25	R2-50-BULK	500

MINITERMS

Nylon Ring Terminals

R Series

SPECIFICATIONS

- Nylon: Electro tin plated copper with brazed seam, easy-entry Nylon, 600V, 105 °C.

FEATURES

- Nylon Ring Terminal have Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.



FIG. NO.	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY
1	Nylon	22-18	1/4	UL	1.094	0.456	Butted	R22-14N	100	R22-14N-BULK	1000
1	Nylon	22-18	5/16	UL	1.094	0.456	Butted	R22-56N	100	R22-56N-BULK	1000
1	Nylon	22-18	3/8	UL	1.248	0.535	Butted	R22-38N	100	R22-38N-BULK	1000
1	Nylon	22-18	#10	UL	0.866	0.314	Butted	R22-10N	100	R22-10N-BULK	1000
1	Nylon	22-18	#4	UL	0.953	0.264	Butted	R22-4N	100	R22-4N-BULK	1000
1	Nylon	22-18	#6	cULus	0.866	0.314	Butted	R22-6N	100	R22-6N-BULK	1000
1	Nylon	22-18	#8	UL	0.866	0.314	Butted	R22-8N	100	R22-8N-BULK	1000
2	Nylon	16-14	1/4	UL	1.102	0.472	Butted	R16-14N	100	R16-14N-BULK	1000
2	Nylon	16-14	5/16	UL	0.807	0.529	Butted	R16-56N	100	R16-56N-BULK	1000
2	Nylon	16-14	3/8	UL	1.248	0.535	Butted	R16-38N	100	R16-38N-BULK	1000
2	Nylon	16-14	1/2	—	1.44	0.755	Butted	R16-50N	100	R16-50N-BULK	1000
2	Nylon	16-14	#10	cULus	0.905	0.334	Butted	R16-10N	100	R16-10N-BULK	1000
2	Nylon	16-14	#6	UL	0.995	0.31	Butted	R16-6N	100	R16-6N-BULK	1000
2	Nylon	16-14	#8	cULus	0.905	0.334	Butted	R16-8N	100	R16-8N-BULK	1000
3	Nylon	12-10	1/4	cULus	1.161	0.472	Butted	R12-14N	50	R12-14N-BULK	500
3	Nylon	12-10	5/16	UL	1.346	0.59	Butted	R12-56N	50	R12-56N-BULK	500
3	Nylon	12-10	3/8	UL	1.346	0.59	Butted	R12-38N	50	R12-38N-BULK	500
3	Nylon	12-10	1/2	—	1.519	0.755	Butted	R12-50N	50	R12-50N-BULK	500
3	Nylon	12-10	#10	cULus	1.023	0.374	Butted	R12-10N	50	R12-10N-BULK	500
3	Nylon	12-10	#6	UL	1.023	0.374	Butted	R12-6N	50	R12-6N-BULK	500
3	Nylon	12-10	#8	UL	1.023	0.374	Butted	R12-8N	50	R12-8N-BULK	500
4	Nylon	8	1/4	UL	1.39	0.468	Butted	R8-14N	50	R8-14N-BULK	250
4	Nylon	8	5/16	UL	1.39	0.468	Butted	R8-56N	50	R8-56N-BULK	250
4	Nylon	8	3/8	UL	1.51	0.588	Butted	R8-38N	50	R8-38N-BULK	250
4	Nylon	8	#10	UL	1.39	0.468	Butted	R8-10N	50	R8-10N-BULK	500
5	Nylon	#6	1/4	UL	1.355	0.48	Butted	R6-14N	50	R6-14N-BULK	250
5	Nylon	#6	5/16	UL	1.355	0.64	Butted	R6-56N	50	R6-56N-BULK	250
5	Nylon	#6	3/8	UL	1.355	0.64	Butted	R6-38N	50	R6-38N-BULK	250
5	Nylon	#6	1/2	—	1.447	0.832	Butted	R6-50N	50	R6-50N-BULK	250
6	Nylon	#4	1/4	UL	1.85	0.475	Butted	R4-14N	25	R4-14N-BULK	100
6	Nylon	#4	5/16	UL	1.85	0.475	Butted	R4-56N	25	R4-56N-BULK	100
6	Nylon	#4	3/8	UL	1.95	0.668	Butted	R4-38N	25	R4-38N-BULK	100
6	Nylon	#4	1/2	UL	1.95	0.668	Butted	R4-50N	25	R4-50N-BULK	100
7	Nylon	#2	1/4	UL	1.821	0.645	Butted	R2-14N	25	R2-14N-BULK	100
7	Nylon	#2	5/16	UL	1.821	0.645	Butted	R2-56N	25	R2-56N-BULK	100
7	Nylon	#2	3/8	UL	1.821	0.645	Butted	R2-38N	25	R2-38N-BULK	100
7	Nylon	#2	1/2	—	2.202	0.863	Butted	R2-50N	25	R2-50N-BULK	100

MINITERMS

Male & Female Plugs & Adapters, Plier Taps & Pin Terminal

PM, PF, PTC, PT Series

FEATURES

- Uninsulated/Nylon Female Plugs are styled with safety and reliability.
- Vinyl Plier Taps have an insulated piercing tap.
- Vinyl Pin Terminals are designed for use in terminal blocks.
- Un-Insulated Male/Female adapters have similar tongue to a quick disconnects for use in terminal blocks or interconnect splices.

SPECIFICATIONS

- **Nylon Male Plugs:** Electro tin plated copper, Nylon, 600V, 75 °C.
- **Nylon Female Plugs:** Electro tin plated copper, Nylon, 600V, 105 °C.
- **Vinyl Piercing Taps:** Electro tin plated copper, Vinyl (PVC), 600V, 75 °C.
- **Vinyl Pin Terminal:** Electro tin plated copper, 600V, 75 °C.
- **Un-Insulated Male/Female Adapters:** Brass, quick disconnect easy-entry, 600V, 105 °C.

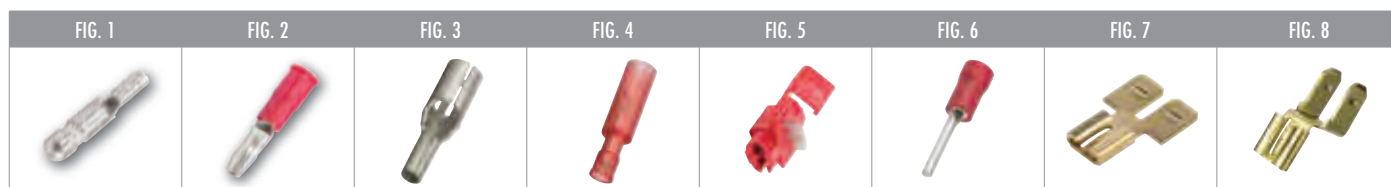


FIG. NO.	STYLE	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
									CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Plugs Male	Un-insulated	22-18	0.157	—	0.630	0.145	Butted	—	—	—	—	PM22-157	100	PM22-157-BULK	1000
1	Plugs Male	Un-insulated	16-14	0.157	—	0.630	0.136	Butted	—	—	—	—	PM16-157	100	PM16-157-BULK	1000
2	Plugs Male	Nylon	22-18	0.157	UR	0.890	0.145	Butted	—	—	—	—	PM22-157N	100	PM22-157N-BULK	1000
2	Plugs Male	Nylon	16-14	0.157	UR	0.890	0.145	Butted	—	—	—	—	PM16-157N	100	PM16-157N-BULK	1000
3	Plugs Female	Un-insulated	22-18	0.157	—	0.680	0.194	Butted	—	—	—	—	PF22-157	100	PF22-157-BULK	1000
3	Plugs Female	Un-insulated	16-14	0.157	—	0.680	0.185	Butted	—	—	—	—	PF16-157	100	PF16-157-BULK	1000
4	Plugs Female	Nylon	22-18	0.157	UR	1.000	0.128	Butted	—	—	—	—	PF22-157N	100	PF22-157N-BULK	1000
4	Plugs Female	Nylon	22-18	0.157	—	1.234	0.309	Butted	—	—	—	—	PFS22-157N	100	PFS22-157N-BULK	1000
4	Plugs Female	Nylon	16-14	0.157	UR	1.000	0.150	Butted	—	—	—	—	PF16-157N	100	PF16-157N-BULK	1000
4	Plugs Female	Nylon	16-14	0.157	—	1.233	0.339	Butted	—	—	—	—	PFS16-157N	100	PFS16-157N-BULK	1000
4	Plugs Female	Nylon	16-14	0.197	—	1.233	0.339	Butted	—	—	—	—	PFS16-197N	100	PFS16-197N-BULK	1000
5	Plier Tap Connector	Vinyl	22-18	n/a	cULus	0.790	0.550	—	—	—	—	—	PTC22-18	100	PTC22-18-BULK	500
5	Plier Tap Connector	Vinyl	16-14	n/a	cULus	0.790	0.550	—	—	—	—	—	PTC16-14	100	PTC16-14-BULK	500
5	Plier Tap Connector	Vinyl	12-10	n/a	cULus	0.800	0.740	—	—	—	—	—	PTC12-10	50	PTC12-10-BULK	250
6	Pin Terminal	Vinyl	22-18	n/a	cULus	0.930	0.078	Butted	—	—	—	—	PT-22V	100	PT-22V-BULK	1000
6	Pin Terminal	Vinyl	16-14	n/a	cULus	0.930	0.078	Butted	—	—	—	—	PT-16V	100	PT-16V-BULK	1000
6	Pin Terminal	Vinyl	12-10	n/a	cULus	1.120	0.107	Butted	—	—	—	—	PT-12V	50	PT-12V-BULK	500
7	Male/Female Adapter	Un-insulated	n/a	0.250	—	0.825	0.564	—	DMT250-3-S	15	DMT250-3-P	60	DMT250-3	100	DMT250-3-BULK	1000
8	Male/Female Adapter 90	Un-insulated	n/a	0.250	—	0.825	0.564	—	—	—	—	—	250-3-Z	100	250-3-Z-BULK	1000

MINITERMS

High Temperature Spade, Ring, Piggyback & Disconnect HT Series

FEATURES

- Un-Insulated Disconnect Females have similar tongue style to a spade. Block spades have longer, flatter sides designed for use in terminal blocks.
- Terminals designed for high temperature operating conditions.

SPECIFICATIONS

- **Un-Insulated Spade:** Spade style terminal, Nickel plated copper, 900 °F.
- **Un-Insulated Ring Terminal:** Ring style terminal, Nickel plated copper, brazed seam, 900 °F.
- **Un-Insulated Piggyback:** Turned up edges give this space more safety and reliability.
- **Un-Insulated Male Disconnect:** Quick male disconnect with butted seam, 600V, 105 °C.
- **Un-Insulated Female Disconnect:** Female quick disconnect with butted seam, 600V, 105 °C.

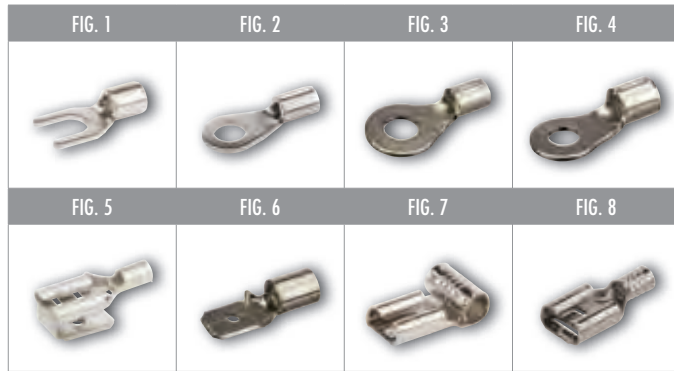


FIG NO.	STYLE	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
									CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Spade	Un-insulated	12-10	#10	—	0.499	0.384	Butted	HTS12-10-S	15	—	—	—	—	HTS12-10-BULK	1000
2	Ring	Un-insulated	22-18	#10	—	0.443	0.325	Butted	—	—	—	—	HTR22-10	100	HTR22-10-BULK	1000
2	Ring	Un-insulated	22-18	#6	—	0.443	0.270	Butted	—	—	—	—	HTR22-6	100	HTR22-6-BULK	1000
3	Ring	Un-insulated	16-14	#10	—	0.450	0.384	Butted	—	—	HTR16-10-P	100	HTR16-10	100	HTR16-10-BULK	1000
3	Ring	Un-insulated	16-14	#6	—	0.470	0.345	Butted	—	—	—	—	HTR16-6	100	HTR16-6-BULK	1000
3	Ring	Un-insulated	16-14	#8	—	0.444	0.390	Butted	—	—	—	—	HTR16-8	100	HTR16-8-BULK	1000
4	Ring	Un-insulated	12-10	1/4	—	0.616	0.482	Butted	—	—	—	—	HTR12-14	50	HTR12-14-BULK	1000
4	Ring	Un-insulated	12-10	#10	—	0.530	0.384	Butted	—	—	HTR12-10-P	60	HTR12-10	50	HTR12-10-BULK	1000
4	Ring	Un-insulated	12-10	#8	—	0.530	0.384	Butted	—	—	—	—	HTR12-8	50	HTR12-8-BULK	1000
5	Piggyback	Un-insulated	16-14	0.250	—	0.625	0.291	Butted	—	—	—	—	HTP16-250-3	—	HTP16-250-3-BULK	1000
6	Disconnect Male	Un-insulated	12-10	0.250	—	0.685	0.250	Butted	—	—	—	—	HTM12-250-3	50	HTM12-250-3-BULK	1000
7	Disconnect Female Flag	Un-insulated	16-14	0.250	—	0.506	0.312	Butted	—	—	HTSF16-250-3-P	60	HTSF16-250-3	60	HTSF16-250-3-BULK	1000
7	Disconnect Female Flag	Un-insulated	12-10	0.250	—	0.587	0.294	Butted	—	—	HTSF12-250-3-P	50	HTSF12-250-3	50	HTSF12-250-3-BULK	1000
8	Disconnect Female	Un-insulated	16-14	0.250	—	0.500	0.250	Butted	HTF16-250-3-S	15	HTF16-250-3-P	60	HTF16-250-3	50	HTF16-250-3-BULK	1000
8	Disconnect Female	Un-insulated	12-10	0.250	—	0.690	0.304	Butted	HTF12-250-3-S	15	—	—	—	—	HTF12-250-3-BULK	500

MINITERMS

Male Disconnects: Fully Insulated & Male/Female Adapter

M, IM, FCT Series

FEATURES

- Un-Insulated Male/Female adapters have turned up edges to give disconnect more safety and reliability.

SPECIFICATIONS

- Vinyl Male Disconnects:** Electro tin plated, Vinyl (PVC), 300V, 75 °C.
- Un-Insulated Male Disconnects:** Electro tin plated copper, 600V, 105 °C.
- Nylon Male Disconnects:** Fully insulated, Nylon, 300V, 105 °C.
- Un-Insulated-Bare Male/Female Adapter:** Turned up edges give this quick disconnect adaptor more safety and reliability. 600V, 105 °C.

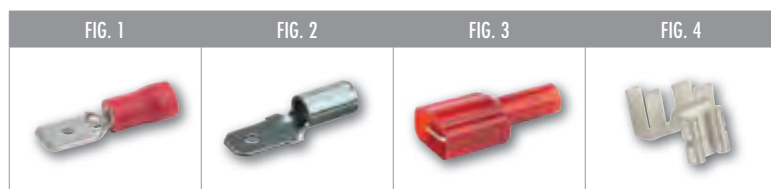


FIG. NO.	STYLE	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	SEAM TYPE	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
									CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Male Insulated Barrel	Vinyl	22-18	0.250	cULus	0.834	0.249	Butted	M22-250-3V-S	25	—	—	M22-250-3V	100	M22-250-3V-BULK	1000
1	Male Insulated Barrel	Vinyl	16-14	0.187	cULus	0.755	0.188	Butted	—	—	—	—	M16-187-2V	100	M16-187-2V-BULK	1000
1	Male Insulated Barrel	Vinyl	16-14	0.250	cULus	0.834	0.249	Butted	M16-250-3V-S	30	M16-250-3V-P	100	M16-250-3V	100	M16-250-3V-BULK	1000
1	Male Insulated Barrel	Vinyl	12-10	0.250	cULus	0.933	0.249	Butted	M12-250-3V-S	25	M12-250-3V-P	50	M12-250-3V	50	M12-250-3V-BULK	500
2	Un-Insulated Male Barrel	Un-insulated	16-14	0.187	—	0.630	0.240	Brazed	—	—	—	—	M16-187-2	100	M16-187-2-BULK	1000
2	Un-Insulated Male Barrel	Un-insulated	16-14	0.250	—	0.630	0.240	Brazed	—	—	—	—	M16-250-3	100	M16-250-3-BULK	1000
2	Un-Insulated Male Barrel	Un-insulated	12-10	0.250	—	0.765	0.250	Brazed	—	—	—	—	M12-250-3	50	M12-250-3-BULK	1000
3	Male Fully Insulated	Nylon	22-18	0.250	cULus	0.925	0.249	Butted	—	—	—	—	IM22-250-3N	100	IM22-250-3N-BULK	1000
3	Male Fully Insulated	Nylon	22-18	0.250	UL	0.904	0.249	Butted	—	—	—	—	M22-250-3N	100	M22-250-3N-BULK	1000
3	Male Fully Insulated	Nylon	16-14	0.187	cULus	0.795	0.188	Butted	—	—	—	—	M16-187-2N	100	M16-187-2N-BULK	1000
3	Male Fully Insulated	Nylon	16-14	0.250	cULus	0.925	0.249	Butted	IM16-250-3N-S	20	IM16-250-3N-P	30	IM16-250-3N	50	IM16-250-3N-BULK	1000
3	Male Fully Insulated	Nylon	16-14	0.250	cULus	0.874	0.249	Butted	—	—	—	—	M16-250-3N	100	M16-250-3N-BULK	1000
3	Male Fully Insulated	Nylon	12-10	0.250	cULus	1.062	0.249	Butted	—	—	—	—	IM12-250-3N	50	IM12-250-3N-BULK	500
3	Male Fully Insulated	Nylon	12-10	0.250	UL	1.061	0.249	Butted	—	—	—	—	M12-250-3N	50	M12-250-3N-BULK	500
4	Male/Female Adapter	Un-insulated	12-10	0.250	—	0.529	0.549	Butted	FCT12-250-3-S	10	—	—	FCT12-250-3	50	FCT12-250-3-BULK	1000

MINITERMS

Female Disconnects: Piggyback, Sleeved Barrel & Insulated P, IFS, IF Series

FEATURES

- Female quick disconnects feature turned up edges for greater retention safety and reliability.

SPECIFICATIONS

- Vinyl/Un-Insulated/Nylon Female Piggyback:** Electro tin plated copper with butter seam, Vinyl, 600V, 105 °F.
- Nylon Female Fully Insulated Sleeved Barrel:** Electro tin plated copper, Nylon, 600V, 105 °F. Female fully insulated quick disconnect with buttered seam.
- Nylon Female Fully Insulated:** Female, fully insulated quick disconnect, Nylon, 600V, 105 °C.



FIG. NO.	STYLE	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Female Piggyback	Vinyl	22-18	0.250	cULus	0.826	0.259	—	—	—	—	P22-250-3V	100	P22-250-3V-BULK	1000
1	Female Piggyback	Vinyl	16-14	0.250	cULus	0.826	0.259	P16-250-3V-S	15	P16-250-3V-P	40	P16-250-3V	100	P16-250-3V-BULK	1000
1	Female Piggyback	Vinyl	12-10	0.250	UL	1.010	0.250	—	—	—	—	P12-250-3V	50	P12-250-3V-BULK	500
2	Female Piggyback	Un-insulated	16-14	0.250	—	0.677	0.295	—	—	—	—	P16-250-3	100	P16-250-3-BULK	1000
3	Female Piggyback	Nylon	22-18	0.250	cULus	0.866	0.259	—	—	—	—	P22-250-3N	100	P22-250-3N-BULK	1000
3	Female Piggyback	Nylon	16-14	0.250	cULus	0.866	0.259	—	—	—	—	P16-250-3N	100	P16-250-3N-BULK	1000
4	Female Fully Insulated Sleeved Barrel	Nylon	22-18	0.110	UL	0.800	0.230	—	—	—	—	IFS22-110-2N	100	IFS22-110-2N-BULK	1000
4	Female Fully Insulated Sleeved Barrel	Nylon	22-18	0.110	UL	0.800	0.230	—	—	—	—	IFS22-110-3N	100	IFS22-110-3N-BULK	1000
4	Female Fully Insulated Sleeved Barrel	Nylon	22-18	0.250	UL	0.890	0.380	—	—	—	—	IFS22-250-3N	100	IFS22-250-3N-BULK	1000
4	Female Fully Insulated Sleeved Barrel	Nylon	16-14	0.250	UL	0.890	0.380	—	—	—	—	IFS16-250-3N	100	IFS16-250-3N-BULK	1000
4	Female Fully Insulated Sleeved Barrel	Nylon	12-10	0.250	UL	1.040	0.380	—	—	—	—	IFS12-250-3N	50	IFS12-250-3N-BULK	500
5	Female Fully Insulated	Nylon	22-18	0.110	UL	0.800	0.230	—	—	—	—	IF22-110-2N	100	IF22-110-2N-BULK	1000
5	Female Fully Insulated	Nylon	22-18	0.110	UL	0.800	0.230	—	—	—	—	IF22-110-3N	100	IF22-110-3N-BULK	1000
5	Female Fully Insulated	Nylon	22-18	0.187	UL	0.780	0.320	—	—	—	—	IF22-187-2N	100	IF22-187-2N-BULK	1000
5	Female Fully Insulated	Nylon	22-18	0.187	UL	0.780	0.320	—	—	—	—	IF22-187-3N	100	IF22-187-3N-BULK	1000
5	Female Fully Insulated	Nylon	22-18	0.250	cULus	0.866	0.259	—	—	—	—	IF22-250-3N	100	IF22-250-3N-BULK	1000
5	Female Fully Insulated	Nylon	16-14	0.187	cULus	0.780	0.320	—	—	—	—	IF16-187-2N	100	IF16-187-2N-BULK	1000
5	Female Fully Insulated	Nylon	16-14	0.187	UL	0.780	0.320	—	—	—	—	IF16-187-3N	100	IF16-187-3N-BULK	1000
5	Female Fully Insulated	Nylon	16-14	0.250	cULus	0.866	0.259	IF16-250-3N-S	12	IF16-250-3N-P	50	IF16-250-3N	100	IF16-250-3N-BULK	1000
5	Female Fully Insulated	Nylon	16-14	0.250	—	0.955	0.395	IF16-250-3N-IG-S	10	—	—	IF16-250-3N-IG	100	IF16-250-3N-IG-BULK	1000
5	Female Fully Insulated	Nylon	12-10	0.250	cULus	0.964	0.259	IF12-250-3N-S	12	IF12-250-3N-P	30	IF12-250-3N	50	IF12-250-3N-BULK	500

MINITERMS

Female Flag & Fully Insulated Flag, Two Way Receptacle

IFL, SF, DFR Series

FEATURES

- Fully insulated female flag for use with 0.250 male quick disconnects.
- Un-insulated female flag with turned up edges for improved retention, safety and reliability.
- 2 way receptacle nylon insulated for use with 2 male plugs of 0.157 diameter.

SPECIFICATIONS

- Nylon Female Flag:** Electro tin plated copper, 600V, 105 °C. Female flag style fully insulated quick disconnect.
- Un-Insulated Female Flag:** Electro tin plated copper, 600V, 105 °C.
- Nylon 2 Way Receptacle:** For use with male plug terminals with 0.157 plug.



FIG. NO.	STYLE	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Female Flag Fully Insulated	Nylon	22-18	0.250	UL	0.630	0.236	—	—	—	—	IFL22-250-3N	100	IFL22-250-3N-BULK	1000
1	Female Flag Fully Insulated	Nylon	16-14	0.250	UL	0.630	0.390	—	—	—	—	IFL16-250-3N	50	IFL16-250-3N-BULK	1000
1	Female Flag Fully Insulated	Nylon	12-10	0.250	UL	0.667	0.311	IFL12-250-3N-S	12	IFL12-250-3N-P	30	IFL12-250-3N	50	IFL12-250-3N-BULK	500
2	Female Flag	Un-insulated	22-18	0.250	—	0.539	0.312	—	—	—	—	SF22-250-3	100	SF22-250-3-BULK	1000
2	Female Flag	Un-insulated	16-14	0.187	UL	0.539	0.312	—	—	SF16-187-2-P	—	SF16-187-2	100	SF16-187-2-BULK	1000
2	Female Flag	Un-insulated	16-14	0.250	—	0.539	0.312	SF16-250-3-S	20	—	—	SF16-250-3	100	SF16-250-3-BULK	1000
2	Female Flag	Un-insulated	12-10	0.250	—	0.582	0.259	SF12-250-3-S	15	—	—	SF12-250-3	50	SF12-250-3-BULK	1000
2	Female Flag	Un-insulated	12-10	0.250	—	0.570	0.320	—	—	—	—	SF12-250-3-SP	50	SF12-250-3-SP-BULK	1000
3	2 Way Receptacle	Nylon	n/a	0.157	—	—	—	—	—	—	—	DFR-157N	100	DFR-157N-BULK	1000

MINITERMS

Female Disconnects: Piggyback, Sleeved Barrel & Insulated F-V, F-N Series

FEATURES

- Insulated, Un-insulated female disconnects leave turned up edges for increased retention, safety and reliability.

SPECIFICATIONS

- Vinyl Female Flag:** Electro tin plated copper with butted seam, Vinyl, 600V, 105 °C. Female, quick disconnect.
- Un-Insulated Female Flag:** Electro tin plated copper with butted seam, 600V, 105 °F. Female quick disconnect.
- Nylon Female Flag:** Turned up edges give this quick disconnect adaptor more safety and reliability. 600V, 105 °C.



FIG. NO.	STYLE	INSULATION TYPE	WIRE RANGE	STUD SIZE	RATINGS	LENGTH (L) (IN.)	WIDTH (W) (IN.)	"S" PACKS		PRO PACKS		STD PACKS		BULK PACKS	
								CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY	CAT. NO.	QTY
1	Female	Vinyl	22-18	0.110	cULus	0.728	0.125	—	—	—	—	F22-110-2V	100	F22-110-2V-BULK	1000
1	Female	Vinyl	22-18	0.110	UL	0.789	0.170	—	—	—	—	F22-110-3V	100	F22-110-3V-BULK	1000
1	Female	Vinyl	22-18	0.187	cULus	0.748	0.196	—	—	—	—	F22-187-2V	100	F22-187-2V-BULK	1000
1	Female	Vinyl	22-18	0.187	UL	0.789	0.250	—	—	—	—	F22-187-3V	100	F22-187-3V-BULK	1000
1	Female	Vinyl	22-18	0.250	cULus	0.826	0.259	F22-250-3V-S	25	F22-250-3V-P	80	F22-250-3V	100	F22-250-3V-BULK	1000
1	Female	Vinyl	16-14	0.110	UL	0.789	0.170	—	—	—	—	F16-110-2V	100	F16-110-2V-BULK	1000
1	Female	Vinyl	16-14	0.110	UL	0.789	0.170	—	—	—	—	F16-110-3V	100	F16-110-3V-BULK	1000
1	Female	Vinyl	16-14	0.187	cULus	0.748	0.196	F16-187-2V-S	25	—	—	F16-187-2V	100	F16-187-2V-BULK	1000
1	Female	Vinyl	16-14	0.187	cULus	0.748	0.196	—	—	—	—	F16-187-3V	100	F16-187-3V-BULK	1000
1	Female	Vinyl	16-14	0.250	cULus	0.826	0.259	F16-250-3V-S	25	F16-250-3V-P	70	F16-250-3V	100	F16-250-3V-BULK	1000
1	Female	Vinyl	12-10	0.250	cULus	0.925	0.259	F12-250-3V-S	25	F12-250-3V-P	50	F12-250-3V	50	F12-250-3V-BULK	500
2	Female	Un-insulated	22-18	0.110	UL	0.550	0.150	—	—	—	—	F22-110-2	100	F22-110-2-BULK	1000
2	Female	Un-insulated	22-18	0.110	UL	0.554	0.150	—	—	—	—	F22-110-3	100	F22-110-3-BULK	1000
2	Female	Un-insulated	22-18	0.187	UL	0.565	0.233	—	—	—	—	F22-187-2	100	F22-187-2-BULK	1000
2	Female	Un-insulated	22-18	0.187	UL	0.565	0.233	—	—	—	—	F22-187-3	100	F22-187-3-BULK	1000
2	Female	Un-insulated	22-18	0.250	—	0.629	0.259	—	—	F22-250-3-P	100	F22-250-3	100	F22-250-3-BULK	1000
2	Female	Un-insulated	16-14	0.110	UL	0.557	0.149	—	—	—	—	F16-110-2	100	F16-110-2-BULK	1000
2	Female	Un-insulated	16-14	0.110	—	0.531	0.125	—	—	—	—	F16-110-3	100	F16-110-3-BULK	1000
2	Female	Un-insulated	16-14	0.187	UL	0.556	0.233	—	—	—	—	F16-187-2	100	F16-187-2-BULK	1000
2	Female	Un-insulated	16-14	0.187	UL	0.559	0.233	—	—	—	—	F16-187-3	100	F16-187-3-BULK	1000
2	Female	Un-insulated	16-14	0.250	—	0.629	0.259	—	—	F16-250-3-P	125	F16-250-3	100	F16-250-3-BULK	1000
2	Female	Un-insulated	12-10	0.250	—	0.669	0.259	—	—	—	—	F12-250-3	50	F12-250-3-BULK	500
3	Female	Nylon	22-18	0.110	—	0.789	0.163	—	—	—	—	F22-110-2N	100	F22-110-2N-BULK	1000
3	Female	Nylon	22-18	0.110	UL	0.789	0.210	—	—	—	—	F22-110-3N	100	F22-110-3N-BULK	1000
3	Female	Nylon	22-18	0.187	UL	0.789	0.125	—	—	—	—	F22-187-2N	100	F22-187-2N-BULK	1000
3	Female	Nylon	22-18	0.187	UL	0.789	0.125	—	—	—	—	F22-187-3N	100	F22-187-3N-BULK	1000
3	Female	Nylon	22-18	0.250	cULus	0.866	0.259	—	—	—	—	F22-250-3N	100	F22-250-3N-BULK	1000
3	Female	Nylon	16-14	0.110	UL	0.789	0.163	—	—	—	—	F16-110-2N	100	F16-110-2N-BULK	1000
3	Female	Nylon	16-14	0.110	UL	0.789	0.163	—	—	—	—	F16-110-3N	100	F16-110-3N-BULK	1000
3	Female	Nylon	16-14	0.187	UL	0.789	0.238	—	—	—	—	F16-187-2N	100	F16-187-2N-BULK	1000
3	Female	Nylon	16-14	0.187	cULus	0.787	0.196	—	—	—	—	F16-187-3N	100	F16-187-3N-BULK	1000
3	Female	Nylon	16-14	0.250	cULus	0.866	0.259	—	—	—	—	F16-250-3N	100	F16-250-3N-BULK	1000
3	Female	Nylon	12-10	0.250	cULus	0.944	0.259	—	—	—	—	F12-250-3N	50	F12-250-3N-BULK	500



MINITERMS

Vinyl Insulated Miniterm Kit

MTK, MTK-2

SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl Insulated: 300V, 75 °C.
- Nylon Insulated: 600V, 105 °C.

FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Crimping tool included with MTK-2



CAT. NO.	FIG. NO.	KIT CONTENTS						STD. CTN. QTY.
		PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.	
MTK	1	R22-6V	40	F22-250-3V	40	S22-6V	40	12
		R22-10V	40	F16-250-3V	35	S22-10V	35	
		R16-6V	30	F12-250-3V	20	S16-6V	20	
		R16-10V	30	B22-V	35	S16-10V	35	
		R12-8V	20	B16-V	25	S12-8V	25	
		R12-14V	20	B12-V	15	S12-14V	15	
MTK-2	2	R22-6V	10	S22-8V	10	B22-V	10	12
		R22-8V	10	S22-10V	10	B16-V	10	
		R22-10V	10	S16-8V	10	B12-V	10	
		R16-6V	10	S16-10V	10	F22-250-3V	10	
		R16-8V	10	S12-10V	5	F16-250-3V	10	
		R16-10V	10	M22-250-3V	10	Crimping tool included	1	
		R12-10V	5	M16-250-3V	10			

MINITERMS

Vinyl Insulated Miniterm Kit

MTKL-100



SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl insulated 300V, 75 °C.

FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy identification.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.
- Crimping tool included.
- Product number staring with "R" is Ring type.
- Product number staring with "S" is Spade type.
- Product number staring with "M" is Male disconnect type.
- Product number staring with "F" is Female disconnect type.
- Product number staring with "B" is Butt splice type.



CAT. NO.	KIT CONTENTS						STD. CTN. QTY.
	PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.	
MTKL-100	TL-5-1	1	C12-N	2	M12-250-3V	2	5
	R12-10V	5	C16-N	4	M16-250-3V	2	
	R16-10V	10	C2-N	5	M22-250-3V	2	
	R22-10V	10	B12-V	6	F12-250-3V	2	
	S12-10V	5	B16-V	10	F16-250-3V	2	
	S16-10V	10	B22-V	10	F22-250-3V	2	
	S22-10V	10					

MINITERMS

Vinyl Insulated Miniterm Kit

MTK-175



- SPECIFICATIONS**
- cULus Listed for Quick Connect Terminals.
 - cULus Listed Wire Connector.
 - Vinyl Insulated: 300V, 75 °C.

- FEATURES**
- These kits have been carefully designed to include the most popular NSi miniterm terminals.
 - Cases are reusable and made of extremely durable polypropylene.
 - Kits provide the ultimate in organization and convenience.
 - Clearly labeled on the inside lid for easy recognition.
 - Convenient size for easy carrying and easy storing.
 - Product number ending in "V" is vinyl insulated.
 - Product number starting with "B" is Butt type.
 - Product number starting with "R" is Ring type.
 - Product number starting with "S" is Spade type.
 - Product number starting with "M" is Male disconnect type.
 - Product number starting with "F" is Female disconnect type.



CAT. NO.	KIT CONTENTS						STD. CTN. QTY.
	PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.	
MTK-175	B12-V	4	R16-6V	11	S16-10V	11	5
	B16-V	11	R16-8V	11	S22-8V	11	
	B22-V	11	R16-10V	11	S22-10V	11	
	R12-10V	4	R16-14V	9	M16-250-3V	11	
	R12-38V	4	S16-6V	11	F16-250-3V	11	
	R22-10V	11	S16-8V	11	F22-250-3V	11	

MINITERMS
Vinyl Insulated Miniterm Kit
MTK-2218, MTK-1614, MTK-1210



SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.

FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.



CAT. NO.	FIG. NO.	KIT CONTENTS						STD. CTN. QTY.
		PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.	
MTK-2218	1	R22-6V	6	S22-8V	6	IF22-250-3V	2	10
	1	R22-8V	6	B22-V	6	M22-250-3V	6	
	1	S22-6V	6	IM22-250-3V	2	F22-250-3V	6	
MTK-1614	2	R16-6V	6	F16-250-3V	6	B16-V	6	10
	2	R16-8V	6	S16-6V	6	IM16-250-3N	3	
	2	M16-250-3V	6	S16-8V	6	IF16-250-3N	3	
MTK-1210	3	R12-8V	4	F12-250-3V	4	B12-V	4	10
	3	R12-14V	2	M12-250-3V	4	IM12-250-3N	2	
	3	R12-38V	2	S12-8V	4	IF12-250-3N	2	



MINITERMS

Push-On & Compressor (With Wire) Terminal Kit

CTK-1, NSi 33-12

FEATURES

PUSH-ON

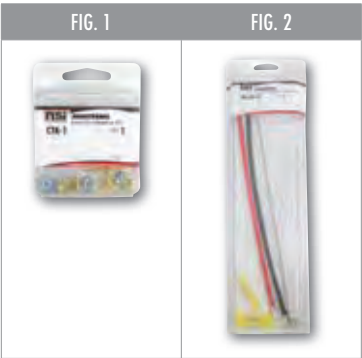
- Kit converts screw type terminals to push-on type.
- Contains four screws on terminal adapters.

COMPRESSOR (WITH WIRE)

- Kit includes three color coded #10 AWG type AWM extra flexible lead wires (10" lengths).
- One end has a 0.250" by 0.032" female tab 12-10 quick disconnect, and the other is stripped at 5/16".

SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl Insulated: 300V, 75 °C.
- Nylon Insulated: 600V, 105 °C.

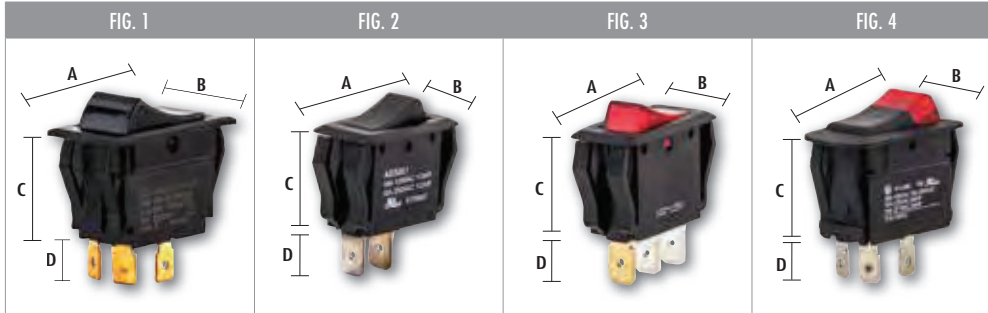
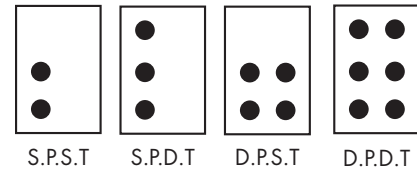


CAT. NO.	FIG. NO.	KIT CONTENTS	STD. CTN. QTY.
CTK-1	1	4 Screw type terminal adapters with 4 screws	100
NSi 33-12	2	3 color coded wires and includes three 12-10 AWG shrink tube butt connectors	1

SWITCHES

Rocker Switches

TERMINAL POSITIONS



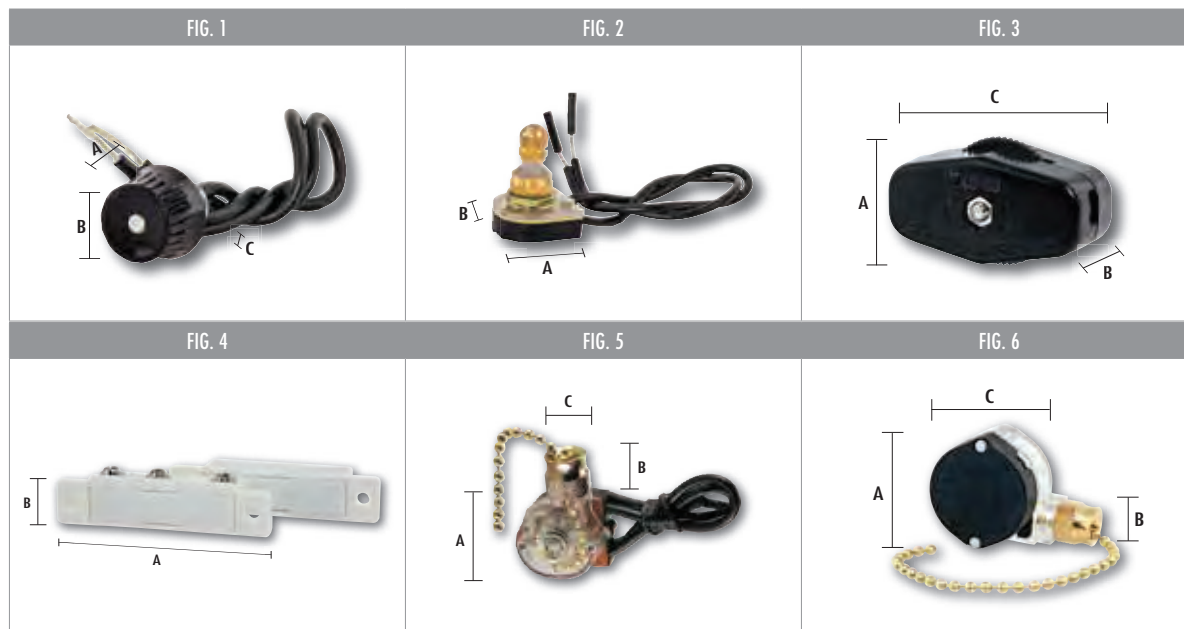
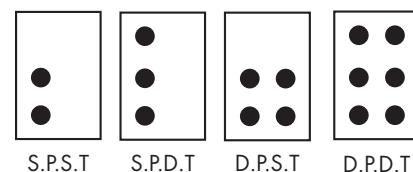
CAT. NO.	FIG. NO.	CIRCUIT FUNC.	POLES & THROWS	RATINGS			VOLTAGE	LAMP COLOR	ACTR. CONTACT	CONNECTION TYPE	STD. CTN. QTY.
				AMPS 125VAC	AMPS 250VAC	HP 125-250VAC					
77010RQ	1	ON-OFF	DPST	20	10	1 1/2 @ 125, 2 @ 250	Non-Lighted	Black	Maintained	0.250 Quikconnect	5
77040RQ	1	ON-ON	DPDT	20	10	1 1/2 @ 125, 2 @ 250	Non-Lighted	Black	Maintained	0.250 Quikconnect	5
77060RQ	1	ON-OFF-ON	DPDT	20	10	1 1/2 @ 125, 2 @ 250	Non-Lighted	Black	Maintained	0.250 Quikconnect	5
77130RQ	1	(ON) OFF (ON)	DPDT	15	10	3/4	Non-Lighted	Black	Momentary	0.250 Quikconnect	5
Dimensions (IN)	1	A: 1.348	B: 0.750	C: 0.762	D: 0.422						
77140RQ (cRU ^{us})	2	ON-OFF	SPST	15	10	—	Non-Lighted	Black	Maintained	0.250 Quikconnect	5
Dimensions (IN)	2	A: 1.250	B: 0.625	C: 0.828	D: 0.406						
77150RQ	3	ON-OFF	SPST	15	7.5	—	—	Red	Maintained	0.250 Quikconnect	5
Dimensions (IN)	3	A: 1.231	B: 0.713	C: 0.812	D: 0.414						
77030RQ	4	ON-OFF	DPST	15	10	3/4 @ 250	125V Incand.	Red	Maintained	0.250 Quikconnect	5
77020RQ	4	ON-OFF	DPST	15	10	3/4 @ 250	125V Neon	Amber	Maintained	0.250 Quikconnect	5
Dimensions (IN)	4	A: 0.426	B: 1.088	C: 0.709	D: 0.345						

() = Momentary Position.

SWITCHES

Rotary Switches & Miscellaneous

TERMINAL POSITIONS

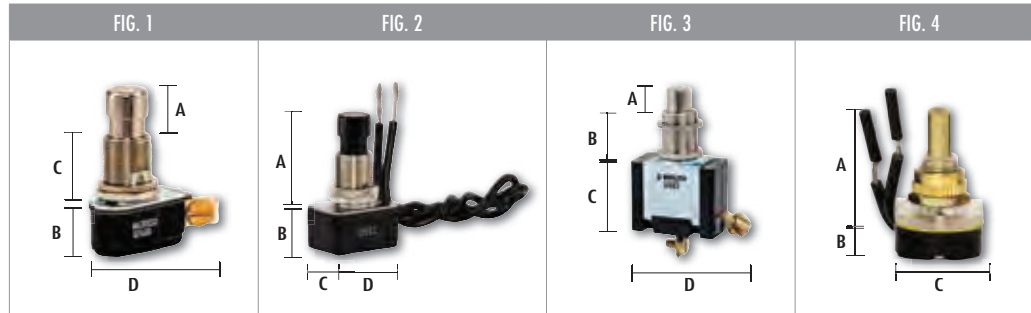
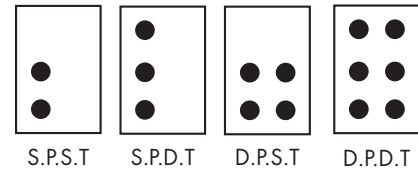


CAT. NO.	FIG. NO.	CIRCUIT FUNC.	POLES & THROWS	AMPS 125VAC	RATINGS AMPS 250VAC	HP 125-250VAC	VOLTAGE	LAMP COLOR	ACTR. CONTACT	CONNECTION TYPE	STD. CTN. QTY.
77300RW	1	ON-OFF	SPST	3	1	Non-Lighted	Rotary Canopy	—	Maintained	Wire Leads	5
Dimensions (IN)	1	A: 0.718	B: 0.600	C: 0.265							
77340RW	2	ON-OFF	SPST	6	3	Non-Lighted	Rotary Canopy	—	Maintained	Wire Leads	5
77320RW	2	OFF-ON-ON-ON	SPST	3	1	Non-Lighted	Rotary Canopy	—	Maintained	Wire Leads	5
Dimensions (IN)	2	A: 1.000	B: 0.844								
79100MS	3	ON-OFF	SPST	6	3	—	—	—	Feed Through Switch	Screws	5
Dimensions (IN)	3	A: 0.844	B: 0.594	C: 1.375							
79200MS	4	N.C. & N.O.	SPDT	5	—	—	—	—	Magnetic Feed Switch	Screws	5
Dimensions (IN)	4	A: 2.500	B: 0.531								
75101CW (cRUus)	5	ON-OFF	SPST	6	3	—	Chain W/Cord	Brass	—	Wire Leads	5
75102CW (cRUus)	5	ON-OFF	SPST	6	3	—	Chain W/Cord	Nickel	—	Wire Leads	5
Dimensions (IN)	5	A: 1.250	B: 0.781	C: 0.594							
75110CW (cRUus)	3	Way/2 Circuit	SP3T	6	3	—	Chain W/Cord	Brass	—	Wire Leads	5
75111CQ (cRUus)	6	OFF-ON-ON-ON	SP3T	6	3	—	Chain W/Cord	Brass	—	Push In	5
Dimensions (IN)	6	A: 1.250	B: 1.125	C: 0.742							

SWITCHES

Pushbutton Switches

TERMINAL POSITIONS

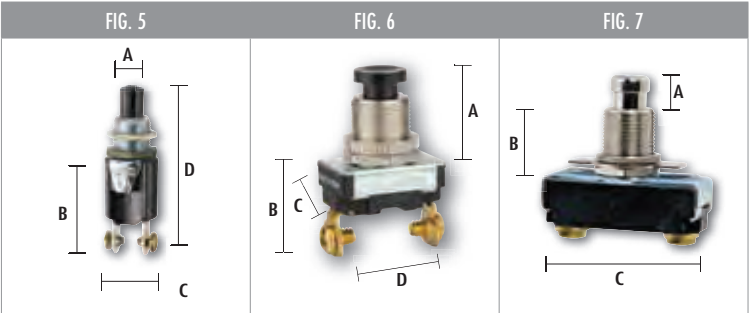
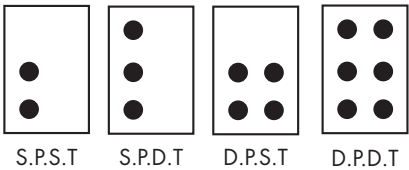


CAT. NO.	FIG. NO.	CIRCUIT FUNC.	POLES & THROWS	AMPS 125VAC	RATINGS AMPS 250VAC	HP 125-250VAC	ACTUATOR STYLE	ACTUATOR MATERIAL	ACTR. CONTACT	CONN. TYPE	STD. CTN. QTY.
76050PS	1	PUSH-ON, PUSH-OFF	SPST	6*	3*	—	Pushbutton	Brass/Nickel	Maintained	Screws	5
76040PW	1	PUSH ON, PUSH OFF	SPST	6	3	1/3 @125	Pushbutton	Brass/Nickel	Maintained	Wire Leads	5
Dimensions (IN)	1	A: 0.437	A: 0.562	C: 0.542	D: 1.183	—	—	—	—	—	—
76010PW	2	PUSH ON, PUSH OFF	SPST	10	5	1/4 @125	Pushbutton	Nylon	Maintained	Wire Leads	5
Dimensions (IN)	2	A: 1.003	B: 0.612	C: 0.550	D: 0.993	—	—	—	—	—	—
76060PS	3	PUSH ON, PUSH OFF	SPST	15	10	—	Pushbutton	Brass/Nickel	Maintained	Screws	5
Dimensions (IN)	3	A: 0.283	B: 0.562	C: 0.982	D: 1.125	—	—	—	—	—	—
76055PS	4	ON-OFF	SPST	6	3	—	Pushbutton	Brass	Maintained	Wire Leads	1
76056PS	4	ON-OFF	SPST	6	3	—	Pushbutton	Nickel	Maintained	Wire Leads	1
76090PW	4	ON-OFF	SPST	6	3	—	Push Canopy	Brass	Maintained	Wire Leads	5
76100PW	4	ON-OFF	SPST	6	3	—	Push Canopy	Bickel	Maintained	Wire Leads	5
Dimensions (IN)	4	A: 0.968	B: 0.313	C: 0.858	—	—	—	—	—	—	—



SWITCHES
Pushbutton Switches Cont'd

TERMINAL POSITIONS



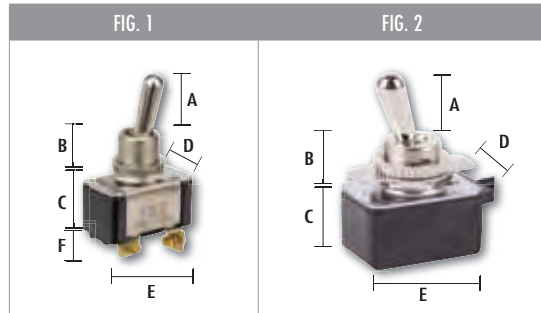
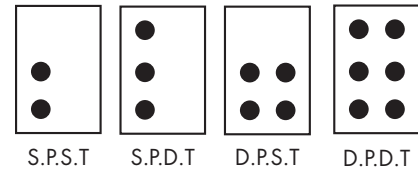
CAT. NO.	FIG. NO.	CIRCUIT FUNC.	POLES & THROWS	AMPS 125VAC	RATINGS AMPS 250VAC	HP 125-250VAC	ACTUATOR STYLE	ACTUATOR MATERIAL	CONTACT	CONN. TYPE	STD. CTN. QTY.
76020PS	5	OFF(ON)	SPST N.O.	3/4	1/4	—	Pushbutton	Nylon	Momentary	Screws	5
76030PS	5	ON (OFF)	SPST N.C.	3/4	1/4	—	Pushbutton	Nylon	Momentary	Screws	5
Dimensions (IN)	5	A: 0.460	B: 1.070	C: 0.650	D: 1.950	—	—	—	—	—	—
76065PS	6	OFF(ON)	SPST N.O.	3	—	—	Pushbutton	Plastic	Momentary	Screws	5
Dimensions (IN)	6	A: .689	B: 1.406	C: .563	D: .875	—	—	—	—	—	—
76070PS	7	OFF(ON)	SPST N.O.	15	10	—	Pushbutton	Brass/Nickel	Momentary	Screws	5
76080PS	7	ON (OFF)	SPST N.C.	15	10	—	Pushbutton	Brass/Nickel	Momentary	Screws	5
Dimensions (IN)	7	A: .576	B: .562	C: 1.382	—	—	—	—	—	—	—

() = Momentary Position. N.O. = Normally Open. N.C. = Normally Closed.

SWITCHES

Toggle Switches: Maintained Contact Single Pole

TERMINAL POSITIONS



CAT. NO.	FIG. NO.	CIRCUIT FUNC.	POLES & THROWS	AMPS 125VAC	RATINGS AMPS 250VAC	HP 125-250VAC	ACTUATOR STYLE	ACTUATOR MATERIAL	CONN. TYPE	STD. CTN. QTY.
78110TS	1	OFF-ON	SPST	6	3	—	Bat	Brass/Nickel	Screws	5
78120TQ	1	OFF-ON	SPST	20	10	3/4	Bat	Brass/Nickel	0.250 Quikconnect	5
78210TS	1	OFF-ON	SPST	20	10	3/4	Bat	Brass/Nickel	Screws	5
78200TS	1	ON-ON	SPDT	20	10	3/4	Bat	Brass/Nickel	Screws	5
78160TS	1	ON-OFF-ON	SPDT	20	10	3/4	Bat	Brass/Nickel	Screws	5
78070TQ	1	ON-OFF-ON	SPDT	20	10	3/4	Bat	Brass/Nickel	0.250 Quikconnect	5
Dimensions (in)	1	A: .687	B: .465	C: .670	D: .348	E: 1.134	F: .634	THREAD: 15/32-32UNS-2A		KEYWAY: .072 X .038 DP
78150TW	2	ON-OFF	SPST	10*	4*	1/3	Bat	Brass/Nickel	Wire Leads	5
Dimensions (IN)	2	A: .500	B: .469	C: .685	D: 1.093	E: 1.856	THREAD: 15/32-32		STANDARD 6" WIRE LEADS	

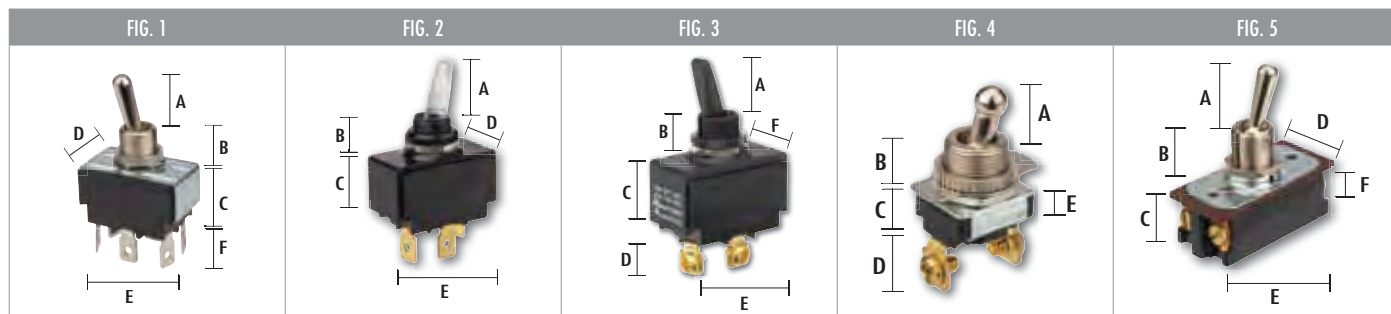
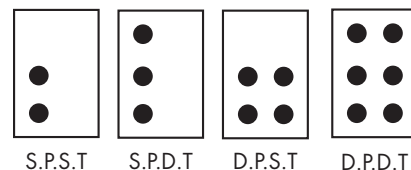
SWITCHES

Toggle Switches: Maintained Contact Single & Double Pole

FEATURES

- *Amperage and voltage are also valid for D.C. Rating.
- **Lighted toggle and Poly (Polycarbonate).

TERMINAL POSITIONS



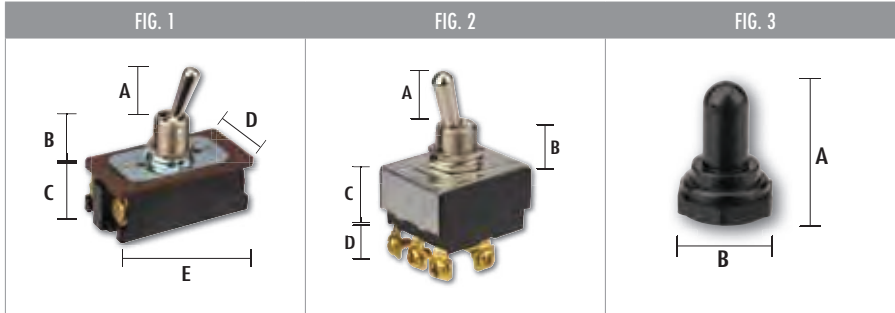
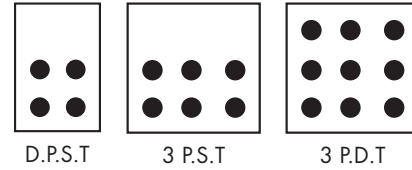
CAT. NO.	FIG. NO.	CIRCUIT FUNCTIONS	POLES & THROWS	AMPS 125VAC	RATINGS AMPS 250VAC	H.P 125-250VAC	ACTUATOR STYLE	ACTUATOR MATERIAL	ACTR. CONTACT	CONN. TYPE	STD. CTN. QTY.
78220TS	1	ON-OFF	DPST	20	10	3/4	Bat	Brass/Nickel	—	Screws	5
78130TQ	1	ON-OFF	DPST	20	10	3/4	Bat	Brass/Nickel	—	0.250 Quikconnect	5
78090TQ	1	ON-ON	DPDT	15	10	—	Bat	Brass/Nickel	—	0.250 Quikconnect	5
78270TS	1	ON-ON	DPDT	20	10	1½@125.2@250	Bat	Brass/Nickel	—	Screws	5
78230TS	1	ON-OFF-ON	DPDT	10	20	1 1/2	Bat	Brass/Nickel	—	Screws	5
78240TS	1	OFF(ON)	DPST	15	10	3/4	Bat	Brass/Nickel	Momentary	Screws	5
78250TS	1	ON-OFF-(ON)	DPDT	15	10	3/4	Bat	Brass/Nickel	Momentary	Screws	5
78260TS	1	(ON)-OFF-(ON)	DPDT	15	10	3/4	Bat	Brass/Nickel	Momentary	Screws	5
Dimensions (IN)	1	A: 0.687	B: 0.465	C: 0.778	D: 0.750	E: 1.308	F: 0.422	THREAD: 15/32-32UNS-2A	KEYWAY: 0.072 X 0.038		
78065TS	2	ON-OFF	SPST	6	3	—	Bat	Nickel	—	Screws	5
78040TQ	2	ON-OFF	SPST	15*	10*	3/4	Flat	Poly. (Red)**	—	0.250 Quikconnect	5
Dimensions (IN)	2	A: 0.715	B: 0.379	C: 0.865	D: 0.750	E: 0.422	THREAD: 15/32-32UNS-2A	KEYWAY: 0.072 X 0.038 DP			
78280TS	3	ON-OFF	SPST	16*	8*	1	Bat	Brass/Nickel	—	Screws	5
78015TS	3	ON-OFF	SPST	20	10	—	Flat	Nylon	—	Screws	5
Dimensions (IN)	3	A: 0.687	B: 0.280	C: 0.687	D: 0.375	E: 1.000	F: 0.588	KEYWAY: 0.072 X 0.038			
78050TQ	4	ON-OFF	SPST	20	10	3/4	Bat	Brass/Nickel	—	0.250 Quikconnect	5
78130TS	4	ON-OFF	SPST	6	3	—	Ball	Brass/Nickel	—	Screws	5
78150TS	4	ON-OFF	SPST	20	10	3/4	Spade	Brass/Nickel	—	Screws	5
Dimensions (IN)	4	A: 0.687	B: 0.465	C: 0.585	D: 0.522	E: 0.312	THREAD: 15/32-32UNS-2A	KEYWAY: 0.072 X 0.038			
78290TS	5	ON-OFF	DPST	16*	8*	1	Bat	Brass/Nickel	—	Screws	5
Dimensions (IN)	5	A: 0.687	B: 0.465	C: 0.765	D: 0.836	E: 1.750	F: 1.764	THREAD: 15/32-32UNS-2A	KEYWAY: 0.072 X 0.038		

() = Momentary Position.

SWITCHES

Toggle Switches

TERMINAL POSITIONS



CAT. NO.	FIG. NO.	CIRCUIT FUNC.	POLES & THROWS	RATINGS			ACTUATOR STYLE	ACTUATOR MATERIAL	CONN. TYPE	STD. CTN. QTY.
				AMPS 125VAC	AMPS 250VAC	HP 125-250VAC				
78300TS	1	ON-OFF	DPST	20*	10*	1 1/2	Bat	Brass/Nickel	Screws	5
Dimensions (IN)	1	A: 0.687	B: 0.465	C: 0.895	D: 1.000	E: 2.093				
78310TS	2	ON-OFF	3PST	15	10	3/4 @ 250	Bat	Brass/Nickel	Screws	5
78315TS	2	ON-OFF-ON	3PDT	15	10	3/4 @ 250	Bat	Brass/Nickel	Screws	5
Dimensions (IN)	2	A: 0.688	B: 0.469	C: 0.965	D: 0.300	THREAD: 15/32				
79300MS	3	Toggle Switch Boots		—	—	—	—	—	—	2
Dimensions (IN)	3	A: 0.950	B: 0.812							

SWITCHES

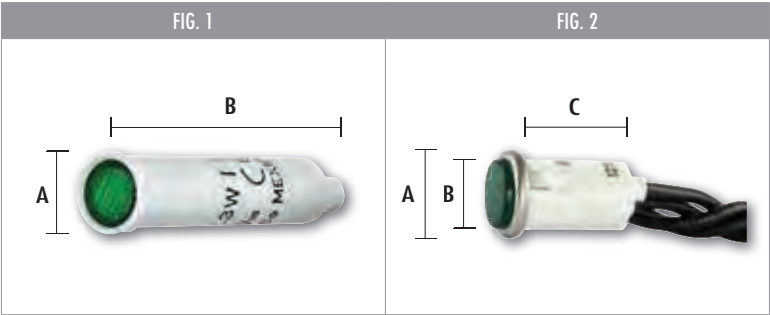
Round Indicator Lights With Non-Replaceable Lamps

SPECIFICATIONS

- 125 Volts Rated.

FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- Connection with 6 inch wire leads.
- More styles and finishes available.
- Available with incandescent lamps.



CAT. NO.	FIG. NO.	PANEL CUTOUT	PANEL THICKNESS	LENS STYLE	LENS COLOR	LENS TYPE	BEZEL COLOR	TYPE OF FIT	MTNG. HOLE DIA.	STD. CTN. QTY.
79710LW	1	0.312	0.030 Min.	Flush	Green	Diamond	White	Press	0.312	5
79720LW	1	0.312	0.030 Min.	Flush	Red	Diamond	White	Press	0.312	5
Dimensions (IN)	1	A: 0.130	B: 1.430							
79740LW	2	0.500	0.030 - .093	0.09 Cyl	Green	Diamond	Stainless	Press	0.500	5
79750LW	2	0.500	0.030 - .093	0.09 Cyl	Red	Diamond	Chrome	Press	0.500	5
79755LW	2	0.500	0.030 - .093	0.09 Cyl	Amber	Diamond	Stainless	Press	0.500	5
Dimensions (IN)	2	A: 0.210	B: 0.100	C: 0.910						

SWITCHES

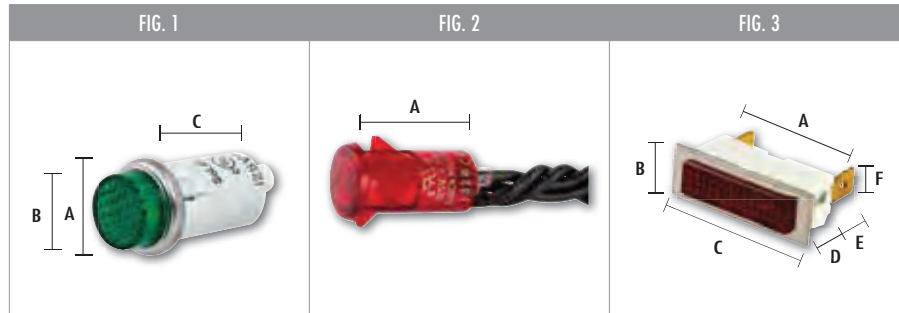
Round & Snap-In Rectangular Indicator Lights

SPECIFICATIONS

- 125 Volts Rated.

FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- Connection with 6 inch wire leads.
- More styles and finishes available.
- Available with incandescent lamps.



CAT. NO.	FIG. NO.	PANEL CUTOUT	PANEL THICKNESS	LENS STYLE	LENS COLOR	LENS TYPE	BEZEL COLOR	TYPE OF FIT	CONNECTION TYPE	MTNG. HOLE DIA.	STD. CTN. QTY.
79770LW	1	0.500	0.030 - 0.093	0.25 Cyl	Green	Diamond	Stainless	Press	—	0.500	5
79780LW	1	0.500	0.030 - 0.093	0.25 Cyl	Red	Diamond	Stainless	Press	—	0.500	5
79785LW	1	0.500	0.030 - 0.093	0.25 Cyl	Amber	Diamond	Stainless	Press	—	0.500	5
Dimensions (IN)	1	A: 0.210	B: 0.100	C: 0.910	MOUNTING HOLE: 0.500		PANEL THICKNESS: 0.030 - 0.093				
79800LW	2	0.500	0.040 - 0.110	Semi-Dome	Red	Rings	None	Snap In	—	0.500	5
Dimensions (IN)	2	A: 1.130	MOUNTING HOLE: 0.500		PANEL THICKNESS: 0.040 - 0.110						
79505LQ	3	0.375 x 1.28	0.03 - .10	—	Red	Diamond	Stainless	—	0.250 Quikconnect	—	5
Dimensions (IN)	3	A: 1.080	B: 0.290	C: 1.380	D: 0.460	E: 0.500	F: 0.370	G: 0.120			

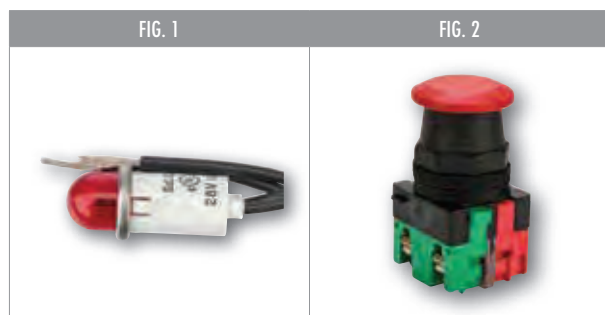
SWITCHES

Indicator Lights & Emergency Stop Buttons

FEATURES

INDICATOR LIGHTS

- Terminals are tin-plated brass.
- Dome style.
- Wire leads are 22 AWG, 4.4-4.8" long, 1/2" stripped.
- Mounting will snap-fit into 0.500-0.505" diameter hole in 0.020-0.100" thick panels.



CAT. NO.	FIG. NO.	NAED NO.	LENS COLOR	COLOR	LENS MATERIAL	VOLTAGE (VAC)	BULB TYPE	BAG QTY.	STD. CTN. QTY.
79900LW	1	—	—	Red	Polycarbonate	28V	Incandescent	1	12
79901LW	1	—	—	Green	Polycarbonate	28V	Incandescent	1	12
79902LW	1	—	—	Amber	Polycarbonate	28V	Incandescent	1	12
79910LW	1	—	—	Red	Nylon	105-125VAC	Neon	1	12
79911LW	1	—	—	Green	Polycarbonate	105-125VAC	Neon	1	12
79912LW	1	—	—	Amber	Nylon	105-125VAC	Neon	1	12
79920LW	1	—	—	Red	Polycarbonate	208-250 VAC	Neon	1	12
79921LW	1	—	—	Green	Polycarbonate	208-250 VAC	Neon	1	12
79922LW	1	—	—	Amber	Polycarbonate	208-250 VAC	Neon	1	12
Dimensions (IN)	1	L: 1.300	W: 0.489						
ESB2-INC-R (UL Listed)	2	32132	Red	—	—	—	—	—	6
ESB2-INOINC-R (UL Listed)	2	32136	Red	—	—	—	—	—	6



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EASY-WRAP™



EASY-WRAP™

Electrical Tape

Premium 070 & 085

EWP Series



SPECIFICATIONS

- UL Listed and CSA.
- **Temperature Rating:** Suitable for use at no more than 600V and not more than 80 °C (176 °F).
- **CSA Temperature Range:** -18 °C to 105 °C (-0.4 °F to 221 °F).
- Meets MIL-I-24391C, HH-I-595C and ASTM D-3005 (Premium 085).

FEATURES

- 7 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape (Premium 070).
- Available in standard black and nine assorted colors for easy identification or color coding (Premium 070).
- Cold and sunlight resistant.
- Flame retardant.
- Suitable for use in all kinds of electrical and mechanical applications.
- Provides exceptional flexibility and performance over a wide range of temperatures.
- *8.5 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape (Premium 085).
- *Available in standard black (Premium 085).



CAT. NO.	FIG. NO.	COLOR	LENGTH (FT.)	WIDTH (IN.)	THICKNESS (IN.)	STD. CTN. QTY.
EWP7066	1	Black	66	0.75	0.007	10
EWP7066-1	2	Brown	66	0.75	0.007	10
EWP7066-2	3	Red	66	0.75	0.007	10
EWP7066-3	4	Orange	66	0.75	0.007	10
EWP7066-4	5	Yellow	66	0.75	0.007	10
EWP7066-5	6	Green	66	0.75	0.007	10
EWP7066-6	7	Blue	66	0.75	0.007	10
EWP7066-7	8	Purple	66	0.75	0.007	10
EWP7066-8	9	Grey	66	0.75	0.007	10
EWP7066-9	10	White	66	0.75	0.007	10
*EWP8566	11	Black	66	0.75	0.0085	10

EASY-WRAP™

Electrical Tape

General Purpose

EWG Series

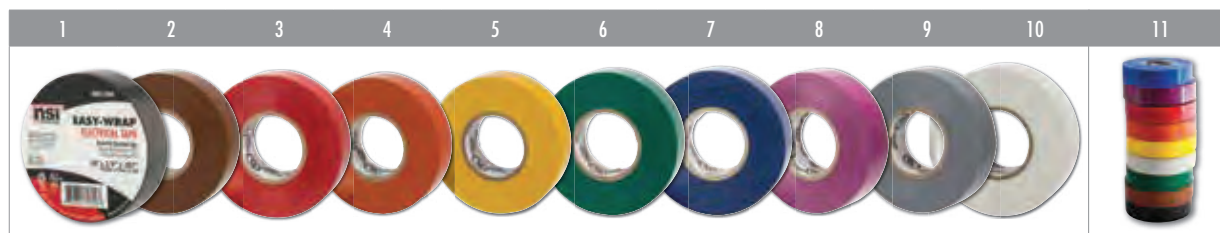


SPECIFICATIONS

- UL Listed and CSA.
- **Temperature Rating:** Suitable for use at no more than 600V and not more than 80 °C (176 °F).
- **CSA Temperature Range:** -7 °C to 80 °C (19.4 °F to 176 °F).

FEATURES

- 7 mil., economy-grade, sunlight resistant, pressure sensitive vinyl electrical tape.
- Suitable for use in all kinds of electrical and mechanical applications such as cable insulation, wire bundling, and reinforcing.
- Extremely flexible with good adhesion and conformability.
- Available in standard black and nine assorted colors for easy identification or color coding.

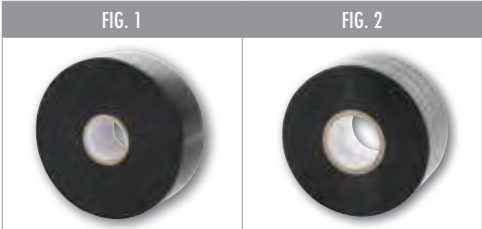


CAT. NO.	FIG. NO.	COLOR	LENGTH (FT.)	WIDTH (IN.)	THICKNESS (IN.)	STD. CTN. QTY.
EWG7060	1	Black	60	0.75	0.007	10
EWG7060-1	2	Brown	60	0.75	0.007	10
EWG7060-2	3	Red	60	0.75	0.007	10
EWG7060-3	4	Orange	60	0.75	0.007	10
EWG7060-4	5	Yellow	60	0.75	0.007	10
EWG7060-5	6	Green	60	0.75	0.007	10
EWG7060-6	7	Blue	60	0.75	0.007	10
EWG7060-7	8	Purple	60	0.75	0.007	10
EWG7060-8	9	Grey	60	0.75	0.007	10
EWG7060-9	10	White	60	0.75	0.007	10
EWG7060-10	11	One roll of each of the above 10 colors				1 Pkg.

EASY-WRAP™
Electrical Tape
All-Weather Corrosion Tape (Pipe Wrap)
EWPP Series

- SPECIFICATIONS**
- Temperature Rating: Temperature rated to 80 °C (176 °F).

- FEATURES**
- Heavy duty PVC tape, manufactured with a high quality adhesive and are designed to protect pipe surfaces from corrosion, abrasion and electrolytic action.
 - Indoors or outdoors, above or below ground to protect pipes, conduits, joints and fittings.
 - Pliable and easy to apply.
 - Outstanding protection against water, sunlight, acids, alkalis, corrosive salts and sewage.
 - Excellent UV resistant.
 - *Suffix "P" denotes printed tapes.



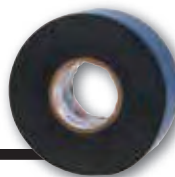
CAT. NO.	FIG. NO.	COLOR	LENGTH (FT.)	WIDTH (IN.)	THICKNESS (IN.)	STD. CTN. QTY.
EWPP102100*	1	Black	100	2	0.01	1
EWPP104100*	1	Black	100	4	0.01	1
EWPP202100	1	Black	100	2	0.02	1
EWPP102100P*	2	Black	100	2	0.01	1
EWPP202100P*	2	Black	100	2	0.02	1

EASY-WRAP™

Electrical Tape

Rubber Splicing, Harness Wrap & Duct Tape

EWRT, EWWH, EWDT Series



SPECIFICATIONS

- UL Listed and CSA (EWRT).
- **Rubber Splicing Temperature Rating:** Dielectric strength 490 Volts per mil.
- Meets HH-553C Grade B and ASTM D-119; UL 510 listing #2C58.

FEATURES

Rubber Splicing (EWRT)

- High quality unvulcanized rubber that will bond quickly to itself to form a solid mass of watertight protection.
- Self-fusing with liner.
- Can be used as primary insulation for electrical wires and cable splices up to 600 volts.
- Conforms to irregular shapes and is flexible to withstand expansion and contraction.
- Highly resistant to salt water, steam, oils, detergents and other chemicals.

Harness Wrap (EWWH)

- A 5 mil PVC film, coated with a rubber adhesive for high elongation and exceptional adherence.
- Excellent conformability to the wiring harness and matte finish.

Duct Tape (EWDT)

- Superior cloth duct tapes, designed to meet all industry demands and applications.
- Uniform MD/CD tear properties.



CAT. NO.	FIG. NO.	COLOR	TENSILE (IN./LBS.)	LENGTH (FT.)	WIDTH (IN.)	THICKNESS (IN)	STD. CTN. QTY.
EWRT3022-.75	1	Black	—	22	0.750	0.030	1
EWRT3022-1.5	1	Black	—	22	1.500	0.030	1
EWRT3022-2	1	Black	—	22	2.000	0.030	1
EWWH5060	2	Black	—	60	0.750	0.005	1
EWDT-8	3	Silver	18	55	2.000	0.314	1

EASY-WRAP™
Electrical Tape
Friction, Electrical Filler & Silicone Rubber Tape
EWFT, EWEF, EWSR Series



SPECIFICATIONS

- UL Listed and CSA (EWFT).
- **Temperature Rating (EWSR):** -53.8 °C to 204.4 (-65 °F to 400 °F).
- **APPLICATIONS (EWSR):** For use on applications up to 69 KV..
Meets MIL-A-59163.

FEATURES

Friction Tape (EWFT)

- Cloth construction offers strong mechanical protection against abrasion and penetration of cable, splices and wire.
- Coated on both sides with a rubber adhesive for adhesion to all types of surfaces.

Electrical Filler Tape (EWEF)

- Butyl based insulation is 1/8" thick for build-up.
- Easy to mold around irregular shapes.
- Self-amalgamates into solid flexible mass.
- Will not corrode copper or aluminum and highly resistant to moisture.
- Rated for applications up to 5 KV.

Silicone Rubber Tape - 69 KV (EWSR)

- Self-bonding silicone rubber tape adheres to itself when wrapped under tension and fuses to form a homogeneous mass within 24 hours at room temperature or four hours at 176.6 °C (350 °F).
- No adhesive required; tape leaves no residue.
- Excellent dielectric properties.
- Waterproof and chemical resistant.
- Triangular configuration.

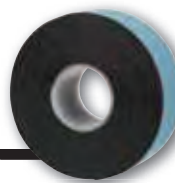


CAT. NO.	FIG. NO.	COLOR	LENGTH (FT.)	WIDTH (IN.)	THICKNESS (IN.)	STD. CTN. QTY.
EWFT157560	1	Black	60	0.750	0.015	1
EWEF12155	2	Black	5	1.500	0.125	1
EWSR121030	3	Red	30	1.000	0.120	1

EASY-WRAP™

Electrical Tape

High Voltage, Glass Cloth & Rubber Mastic Tape
EWHR, EWGC, EWMT Series



FEATURES

High Voltage Rubber Tape - 69 Kv With White Liner (EWHR)

- Self bonding, highly conformable 30 mil EPR rubber with liner.
- Use as primary electrical insulation for applications through 69 KV.
- Flame Retardant, IEEE Standard 17-1974 ANSI.

Glass Cloth Rubber Adhesive (EWGC)

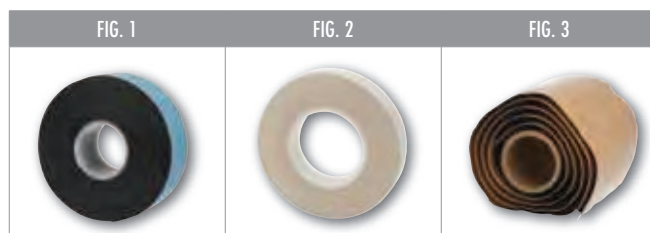
- Provides heat stabilized insulation for applications where resistance to high temperature and high mechanical strength are required, such as motor leads, hot spots, switches and controls.

Duct Tape (EWMT)

- A self-fusing conformable electrical insulating and sealing tape.
- EPR rubber with a strong stable mastic adhesive for busbar and splice connections.

SPECIFICATIONS

- UL Listed (EWHR).
- **Temperature Rating (EWHR):** Rated for 90 °C (194 °F) continuous operating temperature. Intermittent to 130 °C (266 °F). Will not crack at -40 °C (-40 °F).
- **Temperature Rating (EWGC):** Insulation Class: 130 °C (266 °F). Dielectric strength: 3,300 Volts. MIL-I-15126F (type GFT).
- **Temperature Rating (EWMT):** 130 °C (1266 °F).



CAT. NO.	FIG. NO.	COLOR	LENGTH (FT.)	WIDTH (IN.)	THICKNESS (IN.)	STD. CTN. QTY.
EWHR307530-L	1	Black	30	0.750	0.030	1
EWHR3010030-L	1	Black	30	1.000	0.030	1
EWHR3015030-L	1	Black	30	1.500	0.030	1
EWHR3020030-L	1	Black	30	2.000	0.030	1
EWGC75066	2	White	66	0.500	0.007	1
EWGC77566	2	White	66	0.750	0.007	1
EWMT1252524	3	Black	2	2.500	0.125	1



WIRE MANAGEMENT

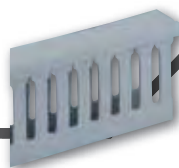
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WIRE MANAGEMENT

Standard Slot Panel Channel

PC-LS Series



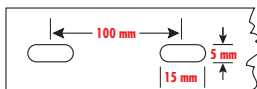
SPECIFICATIONS

- CSA and UL Recognized.
- Maximum Service Temperature: 85 °C (185 °F), Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.

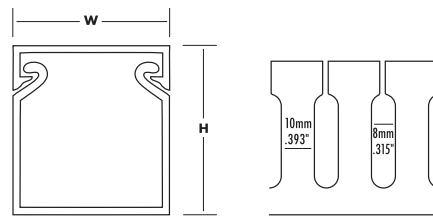
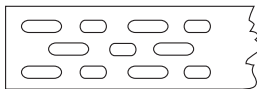
FEATURES

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires.
- Restricted slot opening is designed to retain wires and allow for breakout when required. Individual wires are easily traced and removed when necessary.
- Scored sidewalls allow for easy break-off of panel channel sections.
- All sizes are supplied with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- For other sizes, please contact NSi.

Mounting holes: For widths up to 2.5"



Mounting holes: For widths over 2.5"



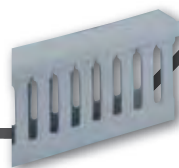
Finger width = 10 mm, slot width = 8 mm.

CAT. NO.	COLOR	NOMINAL SIZE	LENTH (FT.)	STD. PKG. QTY.	STD. CTN. QTY.
PC1010-LS	Grey	1 x 1	6'	6'	72'
PC1010-LS-W	White	1 x 1	6'	6'	72'
PC1015-LS	Grey	1 x 1 1/2	6'	6'	72'
PC1020-LS	Grey	1 x 2	6'	6'	72'
PC1020-LS-W	White	1 x 2	6'	6'	72'
PC1030-LS	Grey	1 x 3	6'	6'	72'
PC1030-LS-W	White	1 x 3	6'	6'	72'
PC1040-LS	Grey	1 x 4	6'	6'	72'
PC1040-LS-W	White	1 x 4	6'	6'	72'
PC1515-LS	Grey	1 1/2 x 1 1/2	6'	6'	72'
PC1515-LS-W	White	1 1/2 x 1 1/2	6'	6'	72'
PC1520-LS	Grey	1 1/2 x 2	6'	6'	72'
PC1520-LS-W	White	1 1/2 x 2	6'	6'	72'
PC1530-LS	Grey	1 1/2 x 3	6'	6'	72'
PC1530-LS-W	White	1 1/2 x 3	6'	6'	72'
PC1540-LS-W	White	1 1/2 x 4	6'	6'	72'
PC2010-LS	Grey	2 x 1	6'	6'	72'
PC2010-LS-W	White	2 x 1	6'	6'	72'
PC2020-LS	Grey	2 x 2	6'	6'	72'

WIRE MANAGEMENT

Standard Slot Panel Channel

PC-LS Series



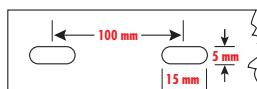
SPECIFICATIONS

- CSA and UL Recognized.
- Maximum Service Temperature: 85 °C (185 °F), Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.

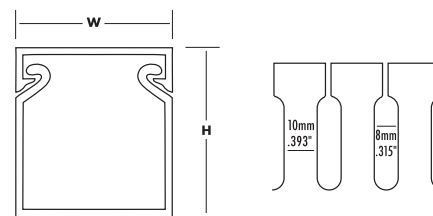
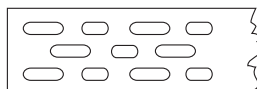
FEATURES

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires.
- Restricted slot opening is designed to retain wires and allow for breakout when required. Individual wires are easily traced and removed when necessary.
- Scored sidewalls allow for easy break-off of panel channel sections.
- All sizes are supplied with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- For other sizes, please contact NSi.

Mounting holes: For widths up to 2.5"



Mounting holes: For widths over 2.5"



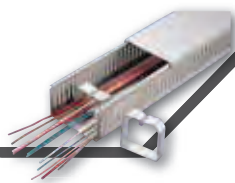
Finger width = 10 mm, slot width = 8 mm.

CAT. NO.	COLOR	NOMINAL SIZE	LENTH (FT.)	STD. PKG. QTY.	STD. CTN. QTY.
PC2020-LS-W	White	2 x 2	6'	6'	72'
PC2030-LS	Grey	2 x 3	6'	6'	72'
PC2030-LS-W	White	2 x 3	6'	6'	72'
PC2040-LS	Grey	2 x 4	6'	6'	72'
PC2040-LS-W	White	2 x 4	6'	6'	72'
PC3020-LS	Grey	3 x 2	6'	6'	72'
PC3020-LS-W	White	3 x 2	6'	6'	72'
PC3030-LS	Grey	3 x 3	6'	6'	72'
PC3030-LS-W	White	3 x 3	6'	6'	72'
PC3040-LS	Grey	3 x 4	6'	6'	72'
PC3040-LS-W	White	3 x 4	6'	6'	72'
PC4020-LS	Grey	4 x 2	6'	6'	72'
PC4030-LS	Grey	4 x 3	6'	6'	72'
PC4030-LS-W	White	4 x 3	6'	6'	72'
PC4040-LS	Grey	4 x 4	6'	6'	72'
PC4040-LS-W	White	4 x 4	6'	6'	72'
PC6040-LS	Grey	6 x 4	6'	6'	72'
PC6040-LS-W	White	6 x 4	6'	6'	72'

WIRE MANAGEMENT

Narrow Finger, High Density Panel Channel

PC-LSN Series



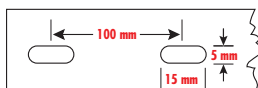
SPECIFICATIONS

- CSA and UL Recognized.
- Tested to UL File up to 50 °C (122 °F). 94V-0 rated.
- Maximum Service Temperature: 85 °C (185 °F).

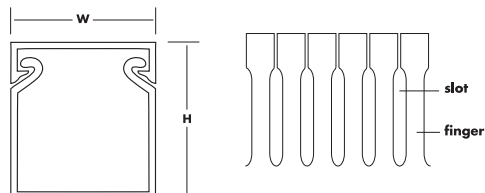
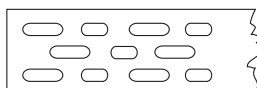
FEATURES

- Narrower finger width is 6mm.
- Slot width is 4mm.
- Made from high-impact, self-extinguishing, warp-proof PVC.
- Optional adhesive backing is available.
- 5mm slot width is available in both white and grey for 1020, 2020, 2030, 2040

Mounting holes: For widths up to 2.5"



Mounting holes: For widths over 2.5"



CAT. NO.	COLOR	NOMINAL SIZE	LENTH (FT.)	STD. PKG. QTY.	STD. CTN. QTY.
PC.75.75-LSN	Grey	3/4 x 3/4	6'	6'	72'
PC1010-LSN	Grey	1 x 1	6'	6'	72'
PC1010-LSN-W	White	1 x 1	6'	6'	72'
PC1015-LSN	Grey	1 x 1 1/2	6'	6'	72'
PC1015-LSN-W	White	1 x 1 1/2	6'	6'	72'
PC10175-LSN	Grey	1 x 1 3/4	6'	6'	72'
PC10175-LSN-W	White	1 x 1 3/4	6'	6'	72'
PC1020-LSN	Grey	1 x 2	6'	6'	72'
PC1020-LSN-W	White	1 x 2	6'	6'	72'
PC10250-LSN	Grey	1 x 2 1/2	6'	6'	72'
PC1030-LSN	Grey	1 x 3	6'	6'	72'
PC1030-LSN-W	White	1 x 3	6'	6'	72'
PC1515-LSN	Grey	1 1/2 x 1 1/2	6'	6'	72'
PC1520-LSN	Grey	1 1/2 x 2	6'	6'	72'
PC1520-LSN-W	White	1 1/2 x 2	6'	6'	72'
PC1530-LSN	Grey	1 1/2 x 3	6'	6'	72'
PC1540-LSN	Grey	1 1/2 x 4	6'	6'	72'
PC175175-LSN	Grey	1 3/4 x 1 3/4	6'	6'	72'
PC2020-LSN	Grey	2 x 2	6'	6'	72'
PC2020-LSN-W	White	2 x 2	6'	6'	72'
PC2030-LSN	Grey	2 x 3	6'	6'	72'
PC2030-LSN-W	White	2 x 3	6'	6'	72'
PC2040-LSN	Grey	2 x 4	6'	6'	72'
PC3020-LSN	Grey	3 x 2	6'	6'	72'
PC3020-LSN-W	White	3 x 2	6'	6'	72'
PC3030-LSN	Grey	3 x 3	6'	6'	72'
PC3040-LSN	Grey	3 x 4	6'	6'	72'
PC4020-LSN-W	White	4 x 2	6'	6'	72'
PC4030-LSN	Grey	4 x 3	6'	6'	72'
PC4040-LSN	Grey	4 x 4	6'	6'	72'



WIRE MANAGEMENT
Solid Wall Panel Channel
PC Series



SPECIFICATIONS

- CSA and UL Recognized.
- Tested to UL File up to 50 °C (122 °F). 94V-0 rated.
- **Maximum Service Temperature:** 85 °C (185 °F).

FEATURES

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires where wire extraction is not necessary.
- Supplied complete with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- For other sizes, please contact NSi.

CAT. NO.	COLOR	NOMINAL SIZE (IN)	LENGTH (FT.)	STD. PKG. QTY.	STD. CTN. QTY.
PC2020	Grey	2 x 2	6'	6'	72'
PC2030	Grey	2 x 3	6'	6'	72'
PC3030	Grey	3 x 3	6'	6'	72'
PC4040	Grey	4 x 4	6'	6'	72'

WIRE MANAGEMENT

Floor Duct FD Series



FEATURES

- 2.5" and 4" wide floor duct for use as safe temporary enclosure of electrical cords, data communications cables and other objects that present a trip hazard.
- Manufactured using soft PVC.

CAT. NO.	COLOR	NOMINAL SIZE (IN.)	LENGTH (FT.)	WIDTH (IN)		HEIGHT (IN)		STD. PKG. QTY.	STD. CTN. QTY.
				ID	OD	ID	OD		
FD250K	Black	2.5"	6'	0.750	2.600	0.430	0.600	6'	18'
FD400W	Off White	4"	6'	1.160	4.000	0.610	0.910	6'	18'
FD400K	Black	4"	6'	1.160	4.000	0.610	0.910	6'	18'

WIRE MANAGEMENT

Cable Marker Plates

Wire Marking/ID

MP Series



FEATURES

- Mark-Pro™ cable marker plates provide reliable method of identification of larger cables and bundles.
- They can be installed using standard nylon tie wraps. A fine tip permanent marker is recommended.
Manufactured using natural colored nylon.

CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
MP-2	1.58	0.790	100	1000
MP-3	2.36	1.000	100	1000

WIRE MANAGEMENT

Wire Marker Dispensers

Wire Marking/ID

WLD Series



SPECIFICATIONS

- Temperature Rating: -40 °C to 121.1 °C (-40 °F to 250 °F).

FEATURES

- Permanent markers are recommended for writing on these vinyl self laminating labels, backed with an acrylic adhesive.

CAT. NO.	WHITE-ON AREA	LENGHT (IN.)	WIDTH (IN.)	STD. CTN. QTY.
WLD-1	0.75 x 0.31	0.75	1.250	1
WLD-2	0.75 x 0.50	0.75	1.880	1
WLD-3	0.75 x 0.75	0.75	3.000	1

WIRE MANAGEMENT
Roll Label Dispenser
Wire Marking/ID
RLD Series



SPECIFICATIONS

- Temperature Rating: -40 °C to 121.1 °C (-40 °F to 250 °F).

FEATURES

- Reusable, refillable, compact and convenient, roll label dispensers provide 760 1-1/4" markers per dispenser.
- Made of tough tyvek material with an excellent acrylic adhesive and a silicone release liner.

CAT. NO.	LABEL LEGEND	STD. PKG. QTY.	STD. CTN. QTY.
RLD-1	0 - 9	1	1

WIRE MANAGEMENT

Pocket Pal Marker Books

Wire Marking/ID

WMB Series



SPECIFICATIONS

- Temperature Rating: -40 °C to 121.1 °C (-40 °F to 250 °F).

FEATURES

- Convenient NSi wire marker books made with vinyl impregnated cloth.
- A strong adhesive ensures the marking will last.
- Printed with black legends on a white background.
- Each book contains 450 wire markers.

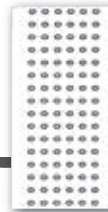
CAT. NO.	LEGEND	MARKERS PER BOOK	STD. CTN. QTY.
WMB-1	0-9	45	12
WMB-2	A-Z, 0-15 +, -, /	10	12
WMB-3	0-45	10	12
WMB-4	1,2,3	150 Each	12
WMB-5	A,B,C	150 Each	12
WMB-6	T1,T2,T3	150 Each	12
WMB-7	L1,L2,L3	150 Each	12
WMB-8	1-15	6 Each	12
	16-90	4 Each	12
	A-Z, +, -, /, 0	2 Each	12
WMB-9	1,2,3	45 Each	12
	A,B,C	45 Each	12
	L1,L2,L3	30 Each	12
	T1,T2,T3	30 Each	12
WMB-11	1-30	15 Each	12
WMB-12	A-Z	15 Each	12
	Blank	45 Each	12
	+	8 Each	12
	-	7 Each	12
WMB-14	0-9	45 Each	12
	L1,L2,L3	15 Each	12
	T1,T2,T3	15 Each	12
WMB-15	46-90	10 Each	12
WMB-20	1 X 6 Blank (1 x 1 Write on Area)	30 Each	12
WMB-21	1 x 3 Blank (1x0.75 Write on Area)	60 Each	12
WMB-LC	Load Center	90 Each	12

WIRE MANAGEMENT

Easy Release Wire Marker Cards

Wire Marking/ID

WMC Series



FEATURES

- A high performance label stock.
- 2 mil pressure sensitive polyester and thermal transfer resin ribbon in a cartridge.
- Up to seven year exterior life.
- Chemical, water, UV and abrasion resistant.

CAT. NO	SYMBOL	CAT. NO	SYMBOL	CAT. NO	SYMBOL
WMC-0	0	WMC-21	21	WMC-42	42
WMC-1	1	WMC-22	22	WMC-44	44
WMC-2	2	WMC-23	23	WMC-1-33	1-33
WMC-3	3	WMC-24	24	WMC-34-66	34-66
WMC-4	4	WMC-25	25	WMC-	—
WMC-5	5	WMC-26	26	WMC-A	A
WMC-6	6	WMC-27	27	WMC-B	B
WMC-7	7	WMC-28	28	WMC-C	C
WMC-8	8	WMC-29	29	WMC-D	D
WMC-9	9	WMC-30	30	WMC-E	E
WMC-10	10	WMC-31	21	WMC-F	F
WMC-11	11	WMC-32	32	WMC-G	G
WMC-12	12	WMC-33	33	WMC-H	H
WMC-13	13	WMC-34	34	WMC-I	I
WMC-14	14	WMC-35	35	WMC-N	N
WMC-15	15	WMC-36	36	WMC-S	S
WMC-16	16	WMC-37	37	WMC-W	W
WMC-17	17	WMC-38	38	WMC-X	X
WMC-18	18	WMC-39	39	WMC-Y	Y
WMC-19	19	WMC-40	40	WMC-Z	Z
WMC-20	20	WMC-41	41	WMC-AZ	AZ

WIRE MANAGEMENT

Voltage Markers

Wire Marking/ID

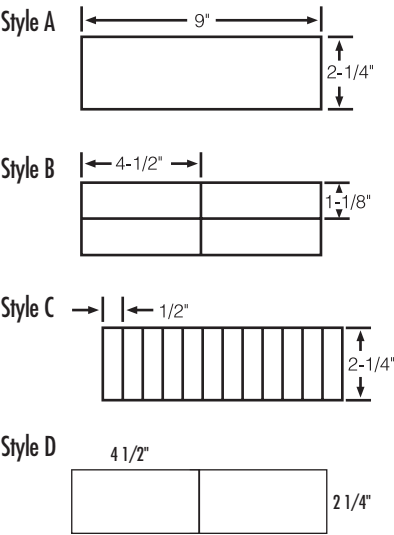
VM Series

120 VOLTS

FEATURES

- Pressure-sensitive vinyl markers for marking power lines, conduit bus, fuse boxes, switches and other electrical equipment, stocked in three convenient sizes.
- Standard Carton Quantity of 25.
- Black lettering on orange background.

STYLES



CAT. NO	SYMBOL	CAT. NO	SYMBOL	CAT. NO	SYMBOL
VM-A-3	120 Volts	VM-A-49	24 Volts	VM-C-5	220 Volts
VM-A-4	208 Volts	VM-B-1	110 Volts	VM-C-7	240 Volts
VM-A-5	220 Volts	VM-B-3	120 Volts	VM-C-9	277 Volts
VM-A-7	240 Volts	VM-B-4	208 Volts	VM-C-12	460 Volts
VM-A-9	277 Volts	VM-B-5	220 Volts	VM-C-13	480 Volts
VM-A-11	440 Volts	VM-B-7	240 Volts	VM-C-19	4160 Volts
VM-A-12	460 Volts	VM-B-9	277 Volts	VM-C-20	4800 Volts
VM-A-13	480 Volts	VM-B-13	480 Volts	VM-C-30	Single Phase
VM-A-15	600 Volts	VM-B-15	600 Volts	VM-C-32	Three Phase
VM-A-18	2400 Volts	VM-B-27	13200 Volts	VM-C-35	120V to 208V
VM-A-19	4160 Volts	VM-B-28	13800 Volts	VM-C-36	120V to 240V
VM-A-20	4800 Volts	VM-B-30	Single Phase	VM-C-37	277V to 480V
VM-A-25	12470 Volts	VM-B-32	Three Phase	VM-C-48	Danger High Voltage
VM-A-28	13800 Volts	VM-B-35	120V to 208V		
VM-A-30	Single Phase	VM-B-36	120V to 240V		
VM-A-32	Three Phase	VM-B-37	277V to 480V		
VM-A-35	120V to 208V	VM-B-48	Danger High Voltage		
VM-A-36	120V to 240V	VM-B-49	24 Volts		
VM-A-37	277V to 480V	VM-C-3	120 Volts		
VM-A-48	Danger High Voltage	VM-C-4	208 Volts		

WIRE MANAGEMENT
Self-Adhesive Label
Lockout/Tagout
VL, DSS Series

CAUTION: In Accordance with OSHA Standard 1910.147, All Equipment, Machines and Processes Shall Be Locked Out Prior to Servicing. Lockout Procedures are Posted in the Main Operating Area and/or by the Main Energy Source of Each Machine. If You Have any Questions About the Lockout Procedures, Please See Your Supervisor or the Safety Director. This Standard Will Be Strictly Enforced.

FEATURES

- Self-adhesive labels are sub-surface printed polyester labels.
- Rigid signs are available in either polycarbonate or polyester material.



CAT. NO.	FIG. NO.	LEGEND	SIZE (IN.)	STD. CTN. QTY.
VL-7	1	Warning Potential Arc-Flash Hazards Exist While Working on this Energized Equipment.	2 1/4 x 4 1/2	25
VL-8	2	Warning Potential Arc-Flash Hazards Exist While Working on this Energized Equipment.	4x6	25
DSS-5	3	High Voltage.	10 x 14	25
DSS-6	4	High Voltage Keep Out.	10 x 14	25

WIRE MANAGEMENT

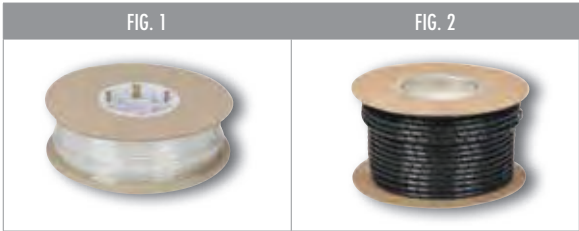
Spiral Wrap

Lockout/Tagout

SRPE Series

FEATURES

- Permits flexible routing of cable harnesses while forming a neat, protective bundle.
- Twists on easily and allows lead-outs at any point.
- **Polyethylene:** For general indoor use with good resistance to ordinary solvents and abrasion.
- **UV Polyethylene:** Ultraviolet resistance for general outdoor use with good resistance to ordinary solvents and abrasion.



CAT. NO.	FIG. NO.	COLOR	MATERIAL	O.D.	I.D.	BUNDLE RANGE	LENGTH (FT.)	STD. CTN. QTY.
SRPE-250	1	Natural	Polyethylene	0.236	0.157	0.157 - 1.97	100	1
SRPE-375	1	Natural	Polyethylene	0.393	0.295	0.295 - 2.36	100	1
SRPE-500	1	Natural	Polyethylene	0.472	0.354	0.354 - 2.56	100	1
SRPE-2500	2	Black	UV Polyethylene	0.236	0.157	0.157 - 1.97	100	1
SRPE-3750	2	Black	UV Polyethylene	0.393	0.295	0.295 - 2.36	100	1
SRPE-5000	2	Black	UV Polyethylene	0.472	0.354	0.354 - 2.56	100	1

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WIRE MANAGEMENT

Detectable Underground Line Tape

Lockout/Tagout

ULTD Series

FEATURES

- Consists of a minimum 5 mil overall thickness with no less than a 35 gauge solid aluminum foil core, which allows for easy detection.
- Specially formulated to resist degradation by elements normally encountered in soil.
- All printing is encased to avoid ink rub-off with environmentally safe ink.



CAT. NO.	FIG. NO.	COLOR	LEGEND	LENGTH (FT.)	WIDTH (IN.)	STD. CTN. QTY.
ULTD-327	1	Red	Caution Buried Electric Line Below	1000	3	8
ULTD-342	2	Orange	Caution Buried Fiber Optic Line Below	1000	3	8
ULTD-343	3	Yellow	Caution Buried Communication Line Below	1000	3	8
ULTD-626	3	Yellow	Caution Buried Electric Line Below	1000	6	4
ULTD-627	1	Red	Caution Buried Electric Line Below	1000	6	4
ULTD-636	2	Orange	Caution Buried Telephone Line Below	1000	6	4
ULTD-643	3	Yellow	Caution Buried Communication Line Below	1000	6	4

WIRE MANAGEMENT

Barricade & Underground Line Tape

Lockout/Tagout

ULT, BT Series

FEATURES

- Underground Line Tape:** Underground tapes are impervious to alkalines, acids and other soil components for the protection, location and identification of underground utility installations. Consists of a 4 mil overall thickness, inert 100 percent virgin low-density polyethylene plastic film formulated for underground use and environmentally safe ink.
- Barricade Tape:** Made of long lasting, non-adhesive polyethylene for exceptional quality, durability and performance. Used above ground to mark off hazards. Supplied in 1,000 ft. rolls.



CAT. NO.	FIG. NO.	COLOR	LEGEND	USE	LENGTH (FT.)	WIDTH (IN.)	STD. CTN. QTY.
ULT-326	1	Yellow	Caution Buried Electric Line Below	Underground	1000	3	8
ULT-327	1	Red	Caution Buried Electric Line Below	Underground	1000	3	8
ULT-626	1	Yellow	Caution Buried Electric Line Below	Underground	1000	6	4
ULT-627	1	Red	Caution Buried Electric Line Below	Underground	1000	6	4
BT-305	2	Yellow	Caution	Above ground	1000	3	8
BT-308	2	Yellow	Caution Do Not Enter	Above ground	1000	3	8

WIRE MANAGEMENT

Wrap-Around Gel & UF Splice Kits

Easy-Splice™
WAGS, ESUF Series

FEATURES

Gel Splice Kits (WAGS)

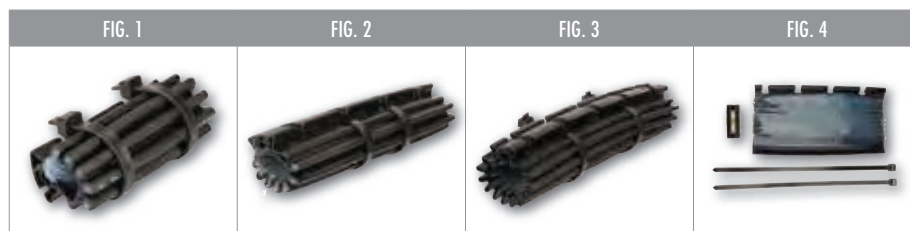
- Wrap-around gel splice closure sleeves quickly insulate and seal buried electrical connections rated up to 1,000 volts.
- Engineered to handle direct burial and manhole applications, these splice enclosure sleeves are equally well suited for insulation and jacket repair.
- Simply wrap and snap the sleeve on any cable in the use range.
- The sealant gel in the sleeve seals on contact.
- The splice closure sleeve can be applied on all common compression connectors and low voltage cables, as well as in-line mechanical connectors.

UF Splice Kits (ESUF)

- Wrap-around UF splice kit provides a quick and convenient method of splicing underground feeder (UF) cable.
- Convenient wrap-around design and fast installation. No heating or waiting for compounds to cure.
- The unique sealing gel entirely encapsulates the splice, completely sealing out moisture and other contaminants.

SPECIFICATIONS

- Insulate and seal buried electrical connections rated up to 1,000 volts.
- A minimum seal length is required on each side of the connector opening or jacket damage.
- Use these guidelines for minimum seal distance:
 - WAGS-4/0 series: 1.50" each side.
 - WAGS-500 series: 2.00" each side.
 - WAGS-750 series: 3.00" each side.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing.
- The UF splice kit is rated for 600V applications and it includes connector and closure.



CAT. NO.	FIG. NO.	WIRE RANGE	CONDUCTOR SIZE	GENERAL USE DIA. LENGTH (IN.)	LENGTH (L) (IN.)	SLEEVE LENGTH (IN.)	MAX. CONDUCTOR OPENING (IN.)	STD. CTN. QTY.
WAGS-4/0-4	1	—	4/0-14 AWG	0.15-0.70 (4-18)	—	4.00 (100)	1.00 (25)	3
WAGS-4/0-6	1	—	4/0-14 AWG	0.15-0.70 (4-18)	—	6.00 (150)	3.00 (75)	3
WAGS-4/0-8	1	—	4/0-14 AWG	0.15-0.70 (4-18)	—	8.00 (200)	5.00 (125)	3
WAGS-4/0-10	1	—	4/0-14 AWG	0.15-0.70 (4-18)	—	10.00 (250)	7.00 (175)	3
WAGS-500-8	2	—	500 MCM-6 AWG	0.30-1.30 (10-33)	—	8.00 (200)	4.00 (100)	3
WAGS-500-10	2	—	500 MCM-6 AWG	0.30-1.30 (10-33)	—	10.00 (250)	6.00 (150)	3
WAGS-750-10	3	—	750-250 MCM	0.80-1.50 (20-38)	—	10.00 (250)	4.00 (100)	3
WAGS-750-14	3	—	750-250 MCM	0.80-1.50 (20-38)	—	14.00 (355)	4.00 (100)	3
ESUF (UL Listed)	4	14/2 To 8/3 with ground	—	—	8.000	—	—	3

WIRE MANAGEMENT
In-Line Gel & Gel Tap Splice Kit with Connector
Easy-Splice™
ESGS, ESGTS Series

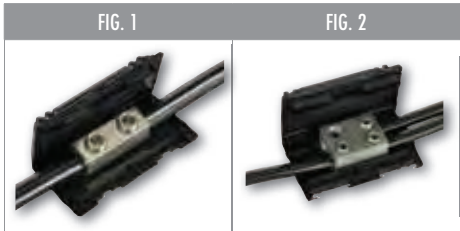
FEATURES

In-Line Gel (ESGS)

- In-line gel splice kit provides a sealed splice for underground, buried and overhead applications.
- Closure offers a fast and simple method for splicing, insulating and environmentally sealing low voltage cable splices.
- Simply install the connector on a copper or aluminum cable, place it in the closure, and snap closed.
- The splice kit is watertight for use in all locations.
- Sealing and corrosion protection provided by sealant gel.

Gel Tap (ESGTS)

- Fast and simple method for connecting, insulating, and environmentally sealing low-voltage splices.
- Designed for underground and overhead environments and is useful for street lighting applications.
- The kit's dual-rated mechanical connector splices a wide range of cables, including copper and aluminum.
- Four port design allows maximum inventory flexibility.
- Sealant gel protects the connection from moisture ingress, corrosion and pollution.
- Hinged splice closure can be installed over the connector in seconds by simply snapping the cover shut.



SPECIFICATIONS

- Temperature Rating (ESGS): -40 °C to 90 °C (-40 °F to 194 °F), 1000V.
- Application: Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.
- Temperature Rating (ESGTS): -40 °C to 90 °C (-40 °F to 194 °F), 1000V.
- Application: Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

CAT. NO.	FIG. NO.	WIRE RANGE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
ESGS-4/0	1	#2 – 4/0 AWG	4.229	1.973	1.097	3
ESGTS-2	2	#14 – #2 AWG	2.750	1.625	1.063	3
ESGTS-2/0	2	#14 – 2/0 AWG	4.250	2.000	1.188	3

WIRE MANAGEMENT
Gel Stub Splice Kit with Connector
Easy-Splice™
ESSLK Series



FEATURES

- Perfect for street light connections.
- Accepts wires from #14 to 2/0 AWG (feeder cable). Use the single port that accepts #14 to #6 AWG to power the light.
- Specially formulated material provides excellent abrasion resistance, insulation value and UV resistance.
- The cap is clear to allow visual inspection of connector positioning during installation and connector performance during service life.
- Corrosion protection is provided by the sealant gel.

SPECIFICATIONS

- cULus Listed.
- **Temperature Rating:** -40 °C to 90 °C.
- **Application:** Gel stub splice kit insulates, seals and protects stub splice connections up to 1,000 volts.
- **Installation:** To install, simply push the cover down over the connection and snap the clamp closed. Kit includes a UL listed connector for use with copper and/or aluminum conductors, a gel filled cap and a cap clamp.

CAT. NO	WIRE RANGE		LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	TORQUE VALUE		STD. CTN. QTY.
	HOLE A	HOLE B				HOLE A	HOLE B	
ESSLK-2/0	14-2/0 AWG	6-14 AWG	2.760	1.660	1.185	120-180IN/Lbs	120-150IN/Lbs	3
TESTING			CONDITIONS					
Chemical Resistance			Astm D543, Sulfuric Acid, Sodium Hydroxide, Transformer And Motor Oil					
Ozone Resistance			Astm D1149, 120 Hours @ 40°C, 50Pphm					
Accelerated Aging			Astm D2671					
Uv Resistance			Astm G154, Uvb, 4,000 Hours On/Off Cycle					
Abrasion Resistance			2040 Gm Wt., 4,000 Cycles, 5% Max Thickness Loss					

WIRE MANAGEMENT

H-Tap Gel Splice Covers with Connector

Easy-Splice™

ESGHS Series

FEATURES

- Low-voltage H-frame closure insulates and seals low-voltage cable-taps and and splices made with H-frame compression connectors.
- The closure utilizes sealing gel material to seal and protect the connection from moisture ingress, corrosion and pollution.
- H-tap gel splice covers do not include connector.

SPECIFICATIONS

- **Temperature Rating:** -40 °C to 90 °C.
- 1000V, UV resistant.
- Qualified to ANSI C119.1-1986 for underground splicing.
- **Application:** The low-voltage H-frame closure is ideal for both underground and overhead applications and is especially useful for street lighting applications.
- **Installation:** To install, simply place the connection on the closure and press the closure together.



CAT. NO	FIG. NO	WIRE RANGE		LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
		MIN	TAP				
ESGHS-BG	1	6-2 AWG	14-8 AWG	2.700	1.583	1.055	3
ESGHS-O	2	2-2/0 AWG	14-6 AWG	4.230	1.988	1.083	3
ESGHS-N	3	350 MCM	4/0 AWG	6.000	3.240	2.110	3
ESGHS-O APPROVED CONNECTORS							
Blackburn WR139	Burndy YHO-1		Homac OB22		NSi WRD139		T&B 63110
Blackburn WR159	Burndy YHO-2		Homac OB44		NSi WRD159		UTILCO HT1
Blackburn WR179	Burndy YHO 100		Homac OB102		NSi WRD179		UTILCO HT2
Blackburn WR199	Burndy YHO 125		Homac OB103		NSi WRD199		
Burndy YHO 150							
ESGHS-BG APPROVED CONNECTORS							
Blackburn WR9				NSi WR9			
Burndy YPC2A8U				T&B 63105			
Homac UB214							

WIRE MANAGEMENT
Push-On Gel Stub Splice Kits
Easy-Splice™
GSS Series

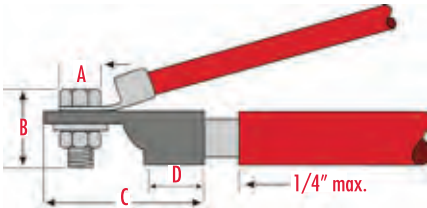


FEATURES

- Quickly and conveniently insulate, seal, and protect stub splice connections up to 1,000 volts.
- Specially formulated material provides excellent abrasion resistance, insulation value, and UV resistance.
- Each cap size is designed to fit a wide range of cable sizes, the expandable design keeps the cap as small as possible allowing it to expand only as much as needed to fit.
- The GSS-10 kit is designed for three phases in one kit.
- It includes one gel filled cap, one cap clamp, and one phase separator.
- The remaining kits include three of each – one per phase.

SPECIFICATIONS

- cULus Listed.
- **Temperature Rating:** 105 °C.
- **Application:** Insulate, seal, and protect stub splice connections up to 1,000 volts. The robust yet compact design is engineered to handle the harsh environment of motor and many other connection applications (including street lights).
- **Installation:** GSS connector kits provide the fastest installation. Simply slide the cover down over the connection and snap the clamp closed. Sealant gel is already in the cap.



CAT. NO.	WIRE RANGE	MAX. BOLT DIMENSION		MAX. LUG DIMENSION		STD. CTN. QTY.
		WIDTH (A) (IN.)	LENGTH (B) (IN.)	TOTAL LENGTH (C) (IN.)	BARREL LENGTH (D) (IN.)	
GSS-10	16-10 AWG	0.375	0.500	1.000	0.500	5
GSS-2	8-2 AWG	0.625	1.000	2.000	1.000	5
GSS-4/0	2-4/0 AWG	0.850	1.300	3.000	1.500	5
GSS-500	250-500 MCM	1.100	1.850	5.000	2.000	5

WIRE MANAGEMENT

Direct Burial Roll-On Splice Sleeve

Easy-Splice™

ROS Series



FEATURES

- Easy “roll-on” way to insulate and seal cable connections up to 1,000 volts.
- The gripping force of the EPDM elastomer combines with high performance sealant to form a water resistant, UV resistant insulating sleeve appropriate for direct burial application over in-line compression connectors.
- Ideal for use where gas or electric heating devices are not approved.
- RUS accepted for use as a secondary tap or splice cover.
- Each kit includes one Easy-Splice™ sleeve and sealant strips.

SPECIFICATIONS

- UL Listed and CSAus.
- Qualified to ANSI C119.1-1986. CSA certified to C22.2 No. 198.2. UL 486D listed, suitable for direct burial.
- **Application:** For use on standard poly or elastomeric-insulated cables. Insulates and seals in-line compression connectors or terminal lugs. Cable can be energized immediately.

CAT. NO.	WIRE RANGE	CABLE O.D. (IN.)	SLEEVE LENGTH (IN.)	MAX. CONNECTOR LENGTH (IN.)	STD. CTN. QTY.
ROS-2/0	8-2/0 AWG	0.22-0.68	8.00	5.00	5
ROS-250	1/0 AWG-250 MCM	0.50-0.90	9.50	4.50	5
ROS-600	250-600 MCM	0.70-1.20	12.00	7.00	5

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WIRE MANAGEMENT
Direct Burial Splice Kit with Rubber Cover
Easy-Splice™
RSK Series



FEATURES

- Dual-rated for use with copper and aluminum cable, these kits consist of an in-line mechanical set-screw connector pre-filled with oxide inhibitor and an EPDM rubber insulating cover to ensure a watertight seal.

SPECIFICATIONS

- UL486D Listed. Sealed wire connector.
- Rating: 600V.
- Application: street lights, motor connection, irrigation systems, HVAC, outdoor lighting, and over wire nuts for a secure seal.

CAT. NO.	WIRE RANGE	CONNECTOR LENGTH (IN.)	STD. CTN. QTY.
RSK-2/0	#14 – 2/0 AWG	1.880	12
RSK-350	#6 AWG – 350 MCM	3.000	6
RSK-500	2/0 AWG – 500 MCM	3.190	6
RSK-750	250 MCM – 750 MCM	6.250	3

WIRE MANAGEMENT

Self Sealing UP Splice Kit & Hot Melt Sealant Sleeves

Easy-Splice™

SKSS, HMSS Series



FEATURES

Self Healing (SKSS)

- Fully waterproof, submersible and re-enterable splice, through the use of uniquely designed interference fit covers.
- Kit comes complete with a connector, silicone and cover. AWG UF cable.

Hot Melt Sealing (SKSS)

- Used to provide a cable block in multi-conductor cables.

SPECIFICATIONS

- UL Listed and CSAus.
- Installation (SKSS):** Use a minimum of one sleeve for every two cable conductors. Install HWHS or CRS product over HMSS sealant sleeves to melt sealant sleeves and provide cable block.



CAT. NO.	CERTIFICATION	FIG. NO.	NO. OF SLEEVES/CONDUCTORS	LENGTH (IN.)	INSIDE DIA. (IN.)	WIRERANGE (IN.)	CONNECTOR LENGTH (IN.)	STD. CTN. QTY.
SKSS-2	UL	1	2	—	—	14/2-10/2	9.500	12
SKSS-3	UL	2	3	—	—	14/3-10/3	9.500	12
HMSS-4-40	—	3	#24 — #20 AWG: Use 1 Sleeve/2 Conductors	1.75	0.160	—	—	100
HMSS-4-40	—	3	#14 — #12 AWG: Use 1 Sleeve/Conductor	1.75	0.160	—	—	100

WIRE MANAGEMENT

Direct Burial/Submersible Splice Kits with Heat Shrink

Easy-Splice™

SK Series



- SPECIFICATIONS**
- UL Listed.
 - Temperature Rating: 105 °C. 600V Max.

FEATURES

Copper Butt Splice Kits (SKCB)

- Mechanical copper butt splice and a heavy wall heat shrink tubing to create a fully insulated splice for copper conductors only.

UF Cable Splice Kit (SKAB)

- For simplified splicing of UF cable designed with heavy wall heat shrink with sealant.
- This kit will accommodate 14/3 through 8/3 with ground UF cable and create a direct burial splice. Contains one four-position connector.

Dual Rated Butt Splice Kits (SKDB)

- Mechanical dual rated splice and matched heavy wall heat shrink tubing to create an insulated splice for copper and/or aluminum cables.

UF Stretcher Kit (SKUF)

- Eliminates the need for using two connectors and a short piece of cable when repairing damaged UF cable.
- Includes one 11.5" connector that will accommodate 14/3 without GRD minimum and 8/3 with GRD maximum. 600 Volt, 105°C.
- Utilizes heavy wall shrink with sealant for a quick and reliable repair.

CAT. NO.	RANGE	STD. CTN. QTY.
SKCB-8	#14 to #8 AWG	24
SKCB-2	#8 to #2 AWG	24
SKAB-2	#8 to #2 AWG	24
SKAB-0	#6 to 1/0 AWG	24
SKAB-250	1/0 AWG to 250 MCM	12
SKDB	14/3 to 8/3	24
SKUF	14/3 to 8/3	12

WIRE MANAGEMENT

Heat Shrinkable End Caps

Easy-Splice™

HSC Series



SPECIFICATIONS

- HSC end sealing caps are qualified to ANSI C119.
- 1-1986 and rated to ICEA electrical withstand test for 1,000 volts.

FEATURES

- These caps replace greases, tapes, epoxy, encapsulation, or dips. In most sizes, installation may be accomplished in less than one minute.
- Heat-shrinkable end caps provide for efficient and positive cable end sealing.
- Made of thermally stabilized polyolefin, the interior of the HSC is coated with a meltable sealant to assure a watertight seal, complete insulation, abrasion and corrosion resistance.
- Seals may be affected over lead, steel, aluminum, copper and all standard plastic and elastomeric insulating materials and conduit.
- HSC end sealing caps can be used as a live seal for cables carrying up to 1,000V.
- They can also be used as end seals for storing and pulling de-energized cable.

CAT. NO.	CONDUCTOR SIZE	GENERAL USE RANGE (IN.)		STD. CTN. QTY.
		MAX.	MIN.	
HSC-70	6-3/0 AWG	0.700	0.300	10
HSC-125	4/0 AWG-750 MCM	1.250	0.650	10
HSC-195	750-1500 MCM	1.950	1.050	10
HSC-450	—	4.500	2.950	2

WIRE MANAGEMENT

Heavy Wall Heat Shrink for Direct Burial & Submersible

Easy-Splice™

HWHS Series



FEATURES

- Made of specially formulated polyolefin irradiated and thermally stabilized to give the material "elastic memory".
- When a proper amount of heat is directly applied to the shrink sleeve, it will permanently shrink to its original unexpanded diameter tightly cover and "mold" itself into irregular shapes.
- The interior of the sleeve is coated with an adhesive that assures a watertight seal after shrinking.
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.
- RUS accepted for use as a secondary tap or splice cover. May be used for jacket repair on cables up to 35 kV.

SPECIFICATIONS

- UL 486D Listed and CSA C22.2.
- **Temperature Rating:** 121-135 °C, 1000V.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.
- **Connectors Up To 6 Inches:** Recommended cut length = Connector length + 4 inches.
- **Connectors Over 6 Inches:** Recommended cut length = Connector length + 5 inches.

CAT. NO.	SEALABLE WIRE RANGE	LENGTH (IN.)	GENERAL USE RANGE (IN.)		MAX. CONNECTOR O.D. (IN.)	MIN. SEAL LENGTH PER SIDE (IN.)	STD. PKG. QTY.
			RECOVERED	EXPANDED			
HWHS14-6-6	14-6 AWG	6	0.130	0.390	0.290	1.500	3
HWHS14-6-12	14-6 AWG	12	0.130	0.390	0.290	1.500	3
HWHS14-6-48	14-6 AWG	48	0.130	0.390	0.290	1.500	3
HWHS8-2-6	8-2 AWG	6	0.170	0.550	0.410	2.000	3
HWHS8-2-12	8-2 AWG	12	0.170	0.550	0.410	2.000	3
HWHS8-2-48	8-2 AWG	48	0.170	0.550	0.410	2.000	3
HWHS6-40-4	6-4/0 AWG	4	0.250	0.860	0.690	2.000	3
HWHS6-40-6	6-4/0 AWG	6	0.250	0.860	0.690	2.000	3
HWHS6-40-9	6-4/0 AWG	9	0.250	0.860	0.690	2.000	3
HWHS6-40-12	6-4/0 AWG	12	0.250	0.860	0.690	2.000	3
HWHS6-40-48	6-4/0 AWG	48	0.250	0.860	0.690	2.000	3
HWHS2-500-4	2 AWG - 500 MCM	4	0.350	1.220	1.060	2.000	3
HWHS2-500-6	2 AWG - 500 MCM	6	0.350	1.220	1.060	2.000	3
HWHS2-500-8	2 AWG - 500 MCM	8	0.350	1.220	1.060	2.000	3
HWHS2-500-9	2 AWG - 500 MCM	9	0.350	1.220	1.060	2.000	3
HWHS2-500-12	2 AWG - 500 MCM	12	0.350	1.220	1.060	2.000	3
HWHS2-500-48	2 AWG - 500 MCM	48	0.350	1.220	1.060	2.000	3

WIRE MANAGEMENT

Heavy Wall Heat Shrink for Direct Burial & Submersible

Easy-Splice™
HWHS Series Cnt'd



SPECIFICATIONS

- UL 486D Listed and CSA C22.2.
- **Temperature Rating:** 121-135 °C, 1000V.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.
- **Connectors Up To 6 Inches:** Recommended cut length = Connector length + 4 inches.
- **Connectors Over 6 Inches:** Recommended cut length = Connector length + 5 inches.

FEATURES

- Made of specially formulated polyolefin irradiated and thermally stabilized to give the material "elastic memory".
- When a proper amount of heat is directly applied to the shrink sleeve, it will permanently shrink to its original unexpanded diameter tightly cover and "mold" itself into irregular shapes.
- The interior of the sleeve is coated with an adhesive that assures a watertight seal after shrinking.
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.
- RUS accepted for use as a secondary tap or splice cover. May be used for jacket repair on cables up to 35 kV.

CAT. NO.	SEALABLE WIRE RANGE	LENGTH (IN.)	GENERAL USE RANGE (IN.)		MAX. CONNECTOR O.D. (IN.)	MIN. SEAL LENGTH PER SIDE (IN.)	STD. PKG. QTY.
			RECOVERED	EXPANDED			
HWHS20-750-6	2/0 AWG - 750 MCM	6	0.510	1.730	1.300	2.000	3
HWHS20-750-9	2/0 AWG - 750 MCM	9	0.510	1.730	1.300	2.000	3
HWHS20-750-12	2/0 AWG - 750 MCM	12	0.510	1.730	1.300	2.000	3
HWHS20-750-48	2/0 AWG - 750 MCM	48	0.510	1.730	1.300	2.000	3
HWHS250-1000-6	250-1000 MCM	6	0.700	1.960	1.500	2.000	3
HWHS250-1000-9	250-1000 MCM	9	0.700	1.960	1.500	2.000	3
HWHS250-1000-12	250-1000 MCM	12	0.700	1.960	1.500	2.000	3
HWHS250-1000-48	250-1000 MCM	48	0.700	1.960	1.500	2.000	3
HWHS500-1500-9	500-1500 MCM	9	0.860	2.480	1.840	2.500	3
HWHS500-1500-12	500-1500 MCM	12	0.860	2.480	1.840	2.500	3
HWHS500-1500-48	500-1500 MCM	48	0.860	2.480	1.840	2.500	3
HWHS800-2000-12	800-2000 MCM	12	1.290	3.930	—	2.500	3
HWHS800-2000-48	800-2000 MCM	48	1.290	3.930	—	2.500	3
HWHS1500-2500-12	1500-2500 MCM	12	1.490	4.640	—	2.500	3
HWHS1500-2500-48	1500-2500 MCM	48	1.490	4.640	—	2.500	3

WIRE MANAGEMENT
Thin-Wall Heat Shrink Kits
Easy-Splice™
THK Series



SPECIFICATIONS

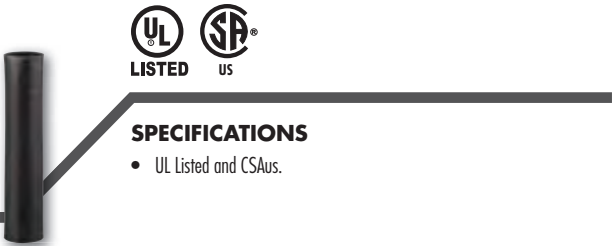
- UL Recognized.
- Temperature Rating: 125 °C. 600V Max.

FEATURES

- Kits have been carefully constructed to include the most common sizes and types in their category.
- Cases are made of extremely durable polypropylene and have heat sealed hinges.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition, and convenient size for easy carrying/storing.

KIT CAT. NO.	KIT CAT. NO.	KIT CONTENTS		LENGTHS (IN.)	STD. CTN. QTY.
		CAT. NO.	QTY.		
THK	1	TWHS-125-6	25	6	1
		TWHS-187-6	25	6	1
		TWHS-250-6	20	6	1
		TWHS-375-6	12	6	1
		TWHS-500-6	7	6	1
		TWHS-750-6	5	6	1

WIRE MANAGEMENT
Heavy-Wall Heat Shrink Kits
Easy-Splice™
HHK Series



FEATURES

- Kits have been carefully constructed to include the four most common sizes of heavy wall heat shrink 6" lengths.
- Sealant included.

KIT CAT. NO.	CAT. NO.	SEALABLE WIRE RANGE	LENGTH (IN.)	GENERAL USE RANGE (IN.)		MAX. CONNECTOR O.D.	MIN. SEAL LENGTH PER SIDE	STD. CTN. QTY.
				RECOVERED	EXPANDED			
HHK	HWHS8-2-6	8-2 AWG	6	0.170	0.550	0.410	2.000	9
	HWHS6-40-6	6-4/0 AWG	6	0.250	0.860	0.690	2.000	3
	HWHS2-500-6	2 AWG - 500 MCM	6	0.350	1.220	1.060	2.000	3
	HWHS20-750-6	2/0 AWG - 750 MCM	6	0.510	1.730	1.300	2.000	3

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WIRE MANAGEMENT

Thin-Wall Tubing

Easy-Splice™

TWHS Series



SPECIFICATIONS

- UL Recognize.
- Temperature Rating: 125 °C. 600V Max.
- Black, White and colored thin-wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools.

CAT. NO.	EXPANDED I.D.	RECOVERED I.D.	NOMIINAL RECOVERED WALL THICKNESS	LENGTH (IN./FT.)	STD. PKG. QTY.
TWHS-046-6	0.046	0.230	0.016	6"	15
TWHS-046-48	0.046	0.230	0.016	48"	1
TWHS-063-6	0.063	0.031	0.017	6"	15
TWHS-063-48	0.063	0.031	0.017	48"	1
TWHS-063-25B	0.063	0.031	0.017	25' Spool	1
TWHS-093-6	0.093	0.046	0.020	6"	15
TWHS-093-48	0.093	0.046	0.020	48"	1
TWHS-093-25B	0.093	0.046	0.020	25' Spool	1
TWHS-125-6	0.125	0.062	0.020	6"	15
TWHS-125-48	0.125	0.062	0.020	48"	1
TWHS-125-25B	0.125	0.062	0.020	25' Spool	1
TWHS-187-6	0.187	0.093	0.020	6"	12
TWHS-187-48	0.187	0.093	0.020	48"	1
TWHS-187-25B	0.187	0.093	0.020	25' Spool	1
TWHS-187	0.187	0.093	0.020	1,000' Spool	1
TWHS-250-6	0.250	0.125	0.025	6"	10
TWHS-250-48	0.250	0.125	0.025	48"	1
TWHS-250-25B	0.250	0.125	0.025	25' Spool	1
TWHS-250	0.250	0.125	0.025	500' Spool	1

WIRE MANAGEMENT

Thin-Wall Tubing

Easy-Splice™

TWHS Series Cnt'd



SPECIFICATIONS

- UL Recognize.
- Temperature Rating: 125 °C. 600V Max.
- Black, White and colored thin-wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools.

CAT.NO.	EXPANDED I.D.	RECOVERED I.D.	NOMINAL RECOVERED WALL THICKNESS	LENGTH (IN/FT)	STD. CTN. QTY.
TWHS-312-6	0.312	0.156	0.025	6"	10
TWHS-312-48	0.312	0.156	0.025	48"	1
TWHS-312	0.312	0.156	0.025	200' Spool	1
TWHS-375-6	0.375	0.187	0.025	6"	9
TWHS-375-48	0.375	0.187	0.025	48"	1
TWHS-375-25B	0.375	0.187	0.025	25' Spool	1
TWHS-375	0.375	0.187	0.025	200' Spool	1
TWHS-500-6	0.500	0.250	0.025	6"	8
TWHS-500-48	0.500	0.250	0.025	48"	1
TWHS-500-25B	0.500	0.250	0.025	25' Spool	1
TWHS-500	0.500	0.250	0.025	200' Spool	1
TWHS-750-6	0.750	0.375	0.030	6'	6
TWHS-750-48	0.750	0.375	0.030	48'	1
TWHS-750-25B	0.750	0.375	0.030	25' Spool	1
TWHS-750-25W	0.750	0.375	0.030	25' Spool	1
TWHS-750	0.750	0.375	0.030	100' Spool	1
TWHS-1000-6	1.000	0.500	0.035	6"	4
TWHS-1000-48	1.000	0.500	0.035	48"	1
TWHS-1000-25B	1.000	0.500	0.035	25' Spool	1
TWHS-1000	1.000	0.500	0.035	100' Spool	1
TWHS-1500-48	1.500	0.750	0.040	48"	1
TWHS-1500-25B	1.500	0.750	0.040	25' Spool	1
TWHS-2000-48	2.000	1.000	0.045	48"	1
TWHS-2000-25B	2.000	1.000	0.045	25' Spool	1

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WIRE MANAGEMENT

Oxide Inhibitor & Duct Sealing Compound

Inhibitors

OX, DS Series

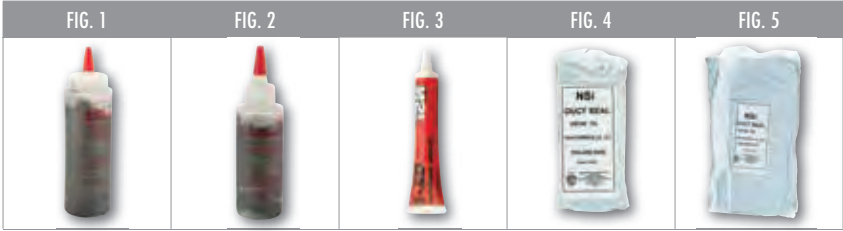
FEATURES

Oxide Inhibitor (OX)

- Universal oxide inhibitor for aluminum and/or copper terminations.
- Remains stable over a wide temperature range.
- Supplied in clear, easy-squeeze bottles or tubes.

Duct Sealing Compound (DS)

- Intended for sealing around electrical service entries, junction boxes and other devices where weather-proofing is critical.
- Will stay soft and pliable for several years and has an excellent shelf life.
- Will not damage wire covers, glass, wood, painted surfaces, plastics or other materials it may contact.
- It is chemically inert, inhibiting no chemical activity and is nontoxic.
- Contains no asbestos or mineral fibers and no mineral oil which can shorten the effective life of the product.
- Remains pliable through a wide range of temperatures and will adhere to most clean dry surfaces.



CAT. NO.	CERTIFICATION	FIG. NO.	DESCRIPTION	SIZE (OZ)	STD. CTN. QTY.
OX-8	—	1	Oxide Inhibitor. Squeeze Bottle.	8 oz.	12
OX-4	—	2	Oxide Inhibitor. Squeeze Bottle.	4 oz.	12
OX-1	—	3	Oxide Inhibitor. Squeeze Tube.	3/4 oz.	100
DS184	UL	4	Duct Seal — 1 Lb. Pkg.	—	50
DS185	UL	5	Duct Seal — 5 Lbs. Pkg.	—	10

WIRE MANAGEMENT
Slyder™ Wire Lubricant
Slyder™ Lubricant
SWL Series



FEATURES

- Superior gel lubricant that reduces surface tension on cable to the lowest level.
- Excellent adherence to cable ensures maximum performance and easier pulls.
- Maintains its lubricity even after drying and has excellent re-wetting characteristics.
- Non-toxic and non-flame propagating and can be used as part of a fire retardant installation.
Does not contain any aromatic or petroleum derivative.

CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
SWL-1Q	1	1 Quart	12
SWL-1G	2	1 Gallon	4
SWL-5G	3	5 Gallons	1

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WIRE MANAGEMENT
Residential & Commercial Caulk, Pillows & Putty Pads
FireStop™
FS Series



SPECIFICATIONS
• UL Listed.

FEATURES

- See individual features for each product on page 217.



CAT. NO.	FIG. NO.	DESCRIPTION	WEIGHT (OZ)	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	STD. CTN. QTY.
FS-814P	1	FireStop, Elastomeric.	10	—	—	—	12
FS-814	2	FireStop814™ Residential and Commercial.	10	—	—	—	12
FS-136	3	FireBlok136™ Residential Fire Block.	10	—	—	—	12
FSP	4	Firestop Pillows.	—	8.000	4.000	2.000	25
FSPP-1	5	Fire Rated Putty Pad.	—	6.000	7.000	—	20
FSPP-2	5	Fire Rated Putty Stick Pad.	—	7.000	7.000	—	20

WIRE MANAGEMENT

Residential & Commercial Caulk, Pillows & Putty Pads

FireStop™
FS Series



FEATURES

FireStop™ 814P

- FireStop™ Intumescent Caulk is water-based, single component elastomeric sealant intended for use as a firestop system component. It forms an economical yet durable, flexible and watertight bond with most construction materials. It is applied independently for "caulk and walk" systems or over mineral wool or backer rod to seal the openings where building services such as pipes and cables penetrate fire rated assemblies. Will not crack or crumble as the physical properties remain stable over time. It tools easily and cleans up with water. May be applied by caulking gun or trowel. ASTM—E 814 and UL 1479.

FireStop814™ CAULK

- FireStop814™ Fire stopping caulk is a single component, non-combustible, non-intumescent material for residential and commercial applications. Colored red for easy inspection, FireStop814 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireStop814™ is for use in annular spaces around wires and pipes, in one- and two-hour fire rated assemblies. It restores the integrity of firestops in residential and commercial construction. Meets UL 1479/ ASTM-E814 standards.

FireBlock136™ CAULK

- FireBlock136™ Fire-blocking caulk is a single component, non-combustible material for residential applications. Colored red for easy inspection, FireBlock136 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireBlock136™ is for use in annular spaces around wires, pipes, ducts, vents and other penetrating items at ceiling and floor openings; and room to room in wood and steel frame constructions. It restores the integrity of fireblocks in one and two family construction. Exceeds ASTM-E136 standards for fireblocking residential requirements prescribed by all major-model building codes, and also meets or exceeds requirements of UBC, BOCA, SBC, IRC, NYS and MA codes. Meets UL 1479/ ASTM-E136 standards.

FIRE RATED PUTTY PADS

- NSi Fire Rated Putty is a moldable non-curing, one-component fire rated material for through penetration fire stop systems. In the event of a fire, Putty will expand when exposed to fire, forming an insulating char, which prevents the spread of flames, smoke, gas and water through penetration openings. Installation is easy as there are no additives, there is no mixing and no curing time is required. The putty is applied by hand and adheres to all common building surfaces. Putty can be installed in confined or occupied spaces since there are no volatile solvents or asbestos fillers. NSi Putty systems are rated up to 3 hours in accordance with ASTM E 814, UL 1479 and ULC/CAN4-S115-M standards. NSi Fire Rated Putty is available in sticks or pads. Moldable Putty Pads are available in two sizes, 6" x 7" x 1/8" or 7" x 7" x 1/8", and are classified as a wall opening protective material. Use them to protect metal electrical cabinets, outlet boxes and mechanical cabinets. STC Rating 49.

FireBlock™ PILLOWS

- FireStop™ Pillows are a single step firestop system component. Intended for wall and/or floor openings through fire separations where temporary or permanent firestops are required. They are ideal where cable retrofitting is frequent and anticipated. Quick and clean single product installation. Self-supporting — no wire lath or mesh is required. They are to be packed tightly into the voids between penetrating items and the perimeter of the opening. During a fire, the intumescent component within each pillow dramatically expands to seal the opening from fire, thereby maintaining the integrity of the fire separation. FireStop Pillows consist of an intumescent layer sandwiched between non-combustible insulation, all enclosed in a hermetically sealed polyethylene shell. No sealant or putty is required. Easy to install, easy to remove — a quick and clean single product installation. ASTM E 814 and UL 1479.

WIRE MANAGEMENT

Ratings & UL Systems

FireStop™

CONDUIT & EMT

MAX. PEN. DIA.	RATING (HR.)	MAX. OPENING	FLOOR OR WALL SYSTEM	NSI FIRESTOP REQUIRED PRODUCT(S)	APPLICATION THICKNESS	SYSTEM NO.	PAGE NO.
6 in. conduit & EMT or smaller	2	0 in to 7/8 in. annulus	Floor - concrete (2-1/2 in. min.), Wall - concrete, concrete block or precast units	NSi FireStop Intumescent Caulk	Min. 1/4 in. thick within annulus flush with top of floor or both surfaces of wall	C-AJ-1511	362
6 in. conduit & EMT or smaller	2	0 in. to 1/2 in. annulus	Wall — gypsum board	NSi FireStop Intumescent Caulk	Min. 1-1/4 in. thick within annulus flush with both surfaces of wall	W-L-1349	362
6 in. conduit & EMT or smaller	1	1/4 in. to 1/2 in. annulus	Wall — gypsum board	NSi FireStop Intumescent Caulk	Min. 5/8 in. thick within annulus flush with both surfaces of wall	W-L-1351	363
3 in. conduit & EMT or smaller	2	0 in. to 1-3/4 in. annulus	Wall — gypsum board	NSi FireStop Intumescent Caulk	Min. 1-1/4 in. thick within annulus flush with both surfaces of wall	W-L-1348	364
4 in. conduit & EMT or smaller	1	0 in. to 1/2 in. annulus	Floor — lumber Ceiling — gypsum board	NSi FireStop Intumescent Caulk	Min. 3/4 in. thick within annulus on top of floor Min. 5/8 in. thick within annulus on bottom surface of ceiling	F-C-1128	363

CABLE LARGER OPENINGS

TYPE OF PENETRATION	RATING (HR.)	MAX. OPENING	FLOOR OR WALL SYSTEM	NSI FIRESTOP REQUIRED PRODUCT(S)	APPLICATION THICKNESS	SYSTEM NO.	PAGE NO.
Coaxial, fiber optic & 24 AWG	3	288 sq. in.	Floor — concrete, Wall - concrete or concrete block	NSi FireStop Pillows	Installed with 8 in. dimension projecting through floor or wall & centered within opening	C-AJ-4073	365
Coaxial, fiber optic, 24 AWG & data cable	3	288 sq. in.	Floor — concrete, Wall — concrete or concrete block	NSi FireStop Pillows	Installed with 8 in. dimension projecting through floor or wall & centered within opening	C-AJ-4074	365
Cables	1	0 in. to 1/4 in. annulus	Floor — lumber Ceiling — gypsum board	NSi FireStop Intumescent Caulk	Min. 1-1/4 in. thick within annulus on top of floor Min. 1/2 in. thick within annulus on bottom surface of ceiling	F-C-3084	361

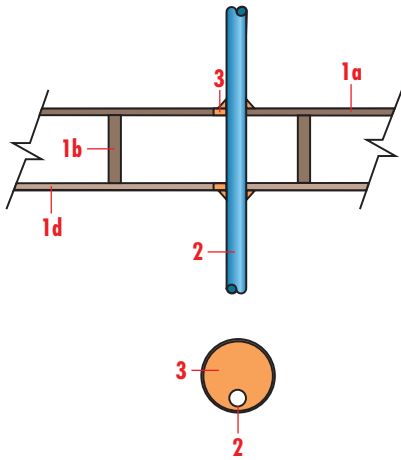
NON-METALLIC CONDUIT

MAX. PEN. DIA.	RATING (HR.)	MAX. OPENING	FLOOR OR WALL SYSTEM	NSI FIRESTOP REQUIRED PRODUCT(S)	APPLICATION THICKNESS	SYSTEM NO.	PAGE NO.
2, PVC, CPVC, ABS & Rigid conduit or smaller	1	1/4 in.	Floor — lumber Ceiling - gypsum board	NSi FireStop Intumescent Caulk	Min. 3/4 in. thick within annulus on top of floor. Min. 5/8 in. thick within annulus on bottom surface of ceiling	F-C-2297	364

WIRE MANAGEMENT
UL System No. F-C-3084
FireStop™
Instructions

F Rating — 1 hr., T Ratings — 3/4 hr. and 1 hr. (See Item 2)

- 1. Floor-Ceiling Assembly — The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
a) Flooring System — Lumber or minimum 1/2 in. plywood subfloor with lumber or minimum 3/4 in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5/8 in.
b) Wood Joists — Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
c) Furring Channels (not shown) — Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
d) Wallboard, Gypsum — Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 5/8 in.
2. Cables — One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point of contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.



The T Rating of the firestop system is dependent upon the type of cable used, as tabulated below:

CABLE TYPE	T-RATING (HR.)
a, b, c and e	1
d	3/4

- 3. Fill, void or cavity material — NSi FireStop Intumescent Caulk. On top of assembly, a minimum 1-1/4 in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum 1/2 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.

WIRE MANAGEMENT

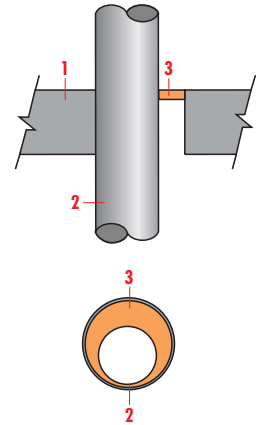
UL System No. C-AJ-1511 & UL System NO. W-L-1349

FireStop™
Instructions

UL SYSTEM NO. C-AJ-1511

F Rating — 2 hr., T Rating — 0 hr.

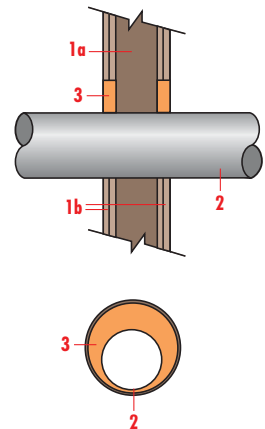
1. Floor or wall assembly — Minimum 21/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor. Floor may also be constructed of any minimum 6 in. thick UL Classified hollow-core precast concrete units. Wall may also be constructed of any UL Classified concrete blocks. Maximum diameter of opening is 24 7/8 in. Maximum diameter of opening in floors constructed of hollow-core is 7 in. See Concrete Blocks (CAZT) or Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space between the pipe or conduit and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 7/8 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - a) Steel pipe — Nom. 24 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
 - b) Iron pipe — Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
 - c) Conduit — Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
 - d) Copper pipe or tubing — Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
3. Fill, void or cavity material — NSi FireStop Intumescent Caulk. Minimum 1/2 in. thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both sides of floor. Additional material installed to form a minimum 1/4 in. crown bead at the point contact location between the pipe and periphery of the opening. For vertical installations, sealant to be applied symmetrically on both sides of wall.



UL SYSTEM NO. W-L-1349

F Rating — 2 hr., T Rating — 0 hr.

1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - a) Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 - b) Wallboard, Gypsum — 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 6 5/8 in.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
 - a) Steel pipe — Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
 - b) Iron pipe — Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
 - c) Conduit — Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
 - d) Copper Tubing — Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
 - e) Copper Pipe — Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material — Sealant — NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 1/2 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.



WIRE MANAGEMENT

UL System No. W-L-1351 & UL System NO. W-L-1128

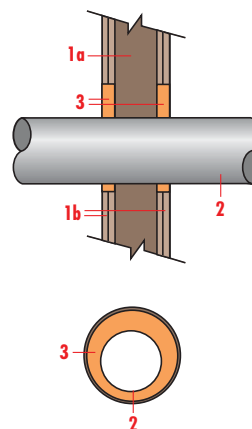
FireStop™

Instructions

UL SYSTEM NO. W-L-1351

F Rating — 1 hr., T Rating — 0 hr.

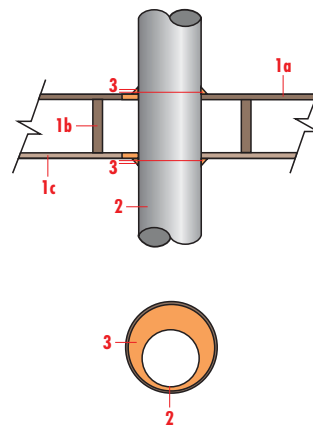
1. Wall Assembly — The 1 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - a) Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum $3\frac{5}{8}$ in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 - b) Wallboard, Gypsum — $\frac{5}{8}$ in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is $24\frac{3}{4}$ in. for steel stud walls. Maximum diameter opening is $14\frac{1}{2}$ in. for wood stud walls.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of $\frac{1}{4}$ in. to a maximum of $\frac{1}{2}$ in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
 - a) Steel pipe — Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
 - b) Iron pipe — Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
 - c) Conduit — Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
 - d) Copper Tubing — Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
 - e) Copper Pipe — Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material — Sealant — NSi FireStop Intumescent Caulk. Minimum $\frac{5}{8}$ in. thickness of fill material applied within the annulus, flush with both surfaces of wall.



UL SYSTEM NO. F-C-1128

F Rating — 1 hr., T Rating — 0 hr.

1. Floor-Ceiling Assembly — The 1 hr. fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - a) Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5 in.
 - b) Wood Joists — Nom. 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
 - c) Wallboard, Gypsum — Nom. 4 ft. wide x $\frac{5}{8}$ in. thick as specified in the individual floor-ceiling design. Wallboard nailed to wood joists.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of $\frac{1}{2}$ in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
 - a) Steel pipe — Nom. 4 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
 - b) Iron pipe — Nom. 4 in. diameter (or smaller) cast or ductile iron pipe.
 - c) Conduit — Nom. 4 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
 - d) Copper Tubing — Nom. 4 in. diameter (or smaller) Type L (or heavier) copper tubing.
 - e) Copper Pipe — Nom. 4 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material — NSi FireStop Intumescent Caulk. Minimum $\frac{3}{4}$ in. thickness of fill material applied within the annulus on top surface of floor. Minimum $\frac{5}{8}$ in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum $\frac{1}{2}$ in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.



WIRE MANAGEMENT

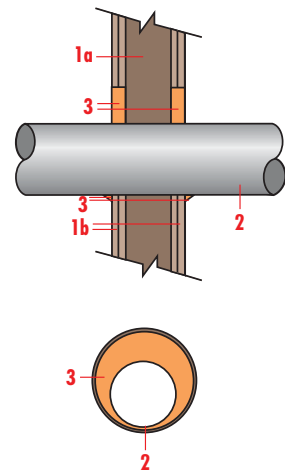
UL System No. W-L-1348 & UL System No. F-C-2297

FireStop™
Instructions

UL SYSTEM NO. W-L-1348

F Rating — 2 hr., T Rating — 0 hr.

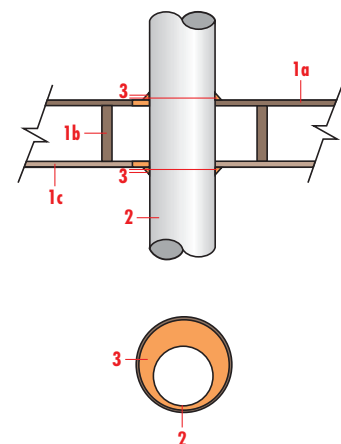
1. Wall Assembly — The 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - a) Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. with nom. 2 x 4 in. lumber end plates and cross braces. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item, such that when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 - b) Wallboard, Gypsum — 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 5 in.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
 - a) Steel pipe — Nom. 3 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
 - b) Conduit — Nom. 3 in. diameter (or smaller) steel electrical metallic tubing or galv. steel conduit.
 - c) Copper Tubing — Nom. 3 in. diameter (or smaller) Type L (or heavier) copper tubing.
 - d) Copper Pipe — Nom. 3 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material — Sealant — NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 3/8 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.



UL SYSTEM NO. F-C-2297

F Rating — 1 hr., T Rating — 0 hr.

1. Floor-Ceiling Assembly — The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L505, L511, or L536 Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - a) Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of opening is 2.875 in.
 - b) Wood Joists — Nom. 2 x 10 in. lumber joists spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped
 - c) Wallboard, Gypsum — Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 2.875 in.
2. Through Penetrant — One nonmetallic pipe or conduit to be installed approximately midway between wood joists and centered within the firestop system. Diameter of openings hole-sawed through flooring system and one layer through gypsum wallboard ceiling to be nom. 1/2 in. larger than the outside diameter of through penetrant. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - a) Polyvinyl Chloride (PVC) Pipe — Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - b) Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - c) Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom. 2 in. diameter (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - d) Rigid Nonmetallic Conduit — Nom. 2 in. diameter (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
3. Fill, void or cavity material — NSi FireStop Intumescent Caulk. Minimum 3/4 in. thickness of fill material applied within the annulus on top surface of floor. Minimum 5/8 in. thickness of fill material applied within annulus on bottom surface of ceiling or top plate of chase wall assembly. Additional fill material to be installed such that a minimum 1/8 in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.



WIRE MANAGEMENT

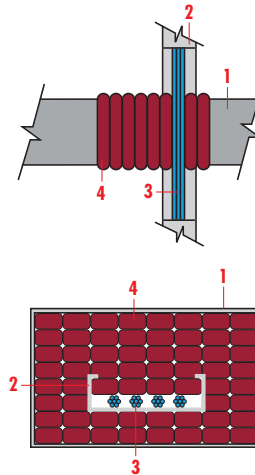
UL System No. C-A-4073 & UL System NO. C-AJ-4074

FireStop™
Instructions

UL SYSTEM NO. C-A-4073

F Rating — 3 hr., T Rating — 1½ hr.

1. Floor or wall assembly — Minimum 5 in. thick reinforced normal weight concrete. Wall may also be constructed of any UL Classified concrete blocks. Maximum area of opening is 288 sq. in. with a maximum dimension of 24 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray — Maximum 12 in. wide by maximum 3⅝ in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables — Maximum four individual cable bundles, each containing a maximum seven cables, to be installed within cable tray. Maximum diameter of individual cable bundles shall be 2 in. Cable bundles to be spaced a minimum 1½ in. to a maximum 3 in. oc. Any combination of the following types and sizes of cables may be used:
 - a) Maximum 3 pair No. 24 AWG (or smaller) copper conductor cables with polyvinyl chloride (PVC) insulation and jacket.
 - b) Maximum 2 fiber 62.5/125 µm fiber optic cable with PVC insulation and jacket.
 - c) Maximum RG/U (or smaller) coaxial copper conductor cable with fluorinated ethylene insulation and jacket materials.
4. Fill, Void or Cavity Materials — NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.

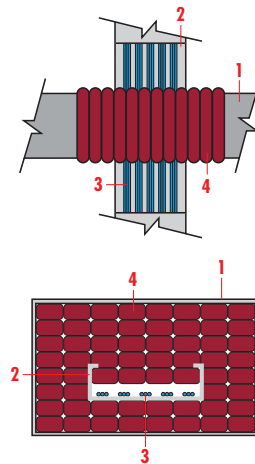


UL SYSTEM NO. C-AJ-4074

(For Horizontal or Vertical Separations)

F Rating — 3 hr., T Rating — 0 hr.

1. Floor or wall assembly — Minimum 4½ in. thick reinforced lightweight (100 pcf) concrete. Maximum size of opening is 288 sq. in. with maximum dimension of 24 in. Wall may also be constructed of any UL Classified concrete blocks. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray — Maximum 12 in. wide by maximum 3⅝ in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables — Aggregate cross-sectional area of cables in cable tray to be 25% of the cross-sectional area of the cable tray based on a maximum 3 in. cable loading within the cable tray. Any combination of the following types and sizes of cables may be used:
 - a) Maximum 287 lengths of cables, each with 3 pair No. 24 AWG Type D telephone cables with PVC insulation and jacket.
 - b) Maximum 24 lengths of double stranded fiber optic cables, ⅛ in. diameter with PVC insulation and jacket.
 - c) Maximum 12 lengths of coaxial cable, ¼ in. diameter, 22 AWG solid copper conductor with polyethylene insulation and PVC jacket.
 - d) Maximum 12 lengths of data cable, Alcatel 380100, E107890, 24 AWG CMR, with PVC jacket.
4. Fill, Void or Cavity Materials — NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.



WIRE MANAGEMENT

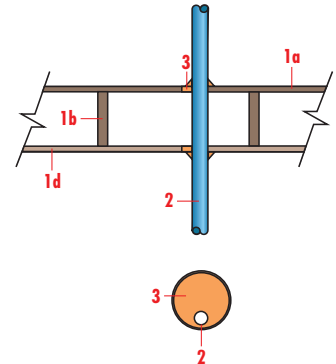
UL System No. F-C-3084

FireStop™
Instructions

UL SYSTEM NO. F-C-3084

F Rating — 1 hr., T Ratings — $\frac{3}{4}$ hr. and 1 hr. (See Item 2)

1. Floor-Ceiling Assembly — The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
 - a) Flooring System — Lumber or minimum $\frac{1}{2}$ in. plywood subfloor with lumber or minimum $\frac{3}{4}$ in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is $\frac{5}{8}$ in.
 - b) Wood Joists — Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
 - c) Furring Channels (not shown) — Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
 - d) Wallboard, Gypsum — Nom. 4 ft. wide x $\frac{5}{8}$ in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is $\frac{5}{8}$ in.
2. Cables — One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
 - a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
 - b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
 - c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
 - d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
 - e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.



The T Rating of the firestop system is dependent upon the type of cable used, as tabulate below:

CABLE TYPE	T-RATING (HR.)
a, b, c and e	1
d	$\frac{3}{4}$

3. Fill, void or cavity material — NSi FireStop Intumescent Caulk. On top of assembly, a minimum $\frac{1}{4}$ in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum $\frac{1}{2}$ in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum $\frac{1}{2}$ in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.



GROUNDING



GROUNDING

Ground Clamps

Heavy Duty Direct Burial with Lay-In Lugs
GLC Series

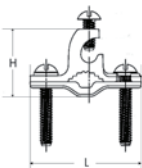
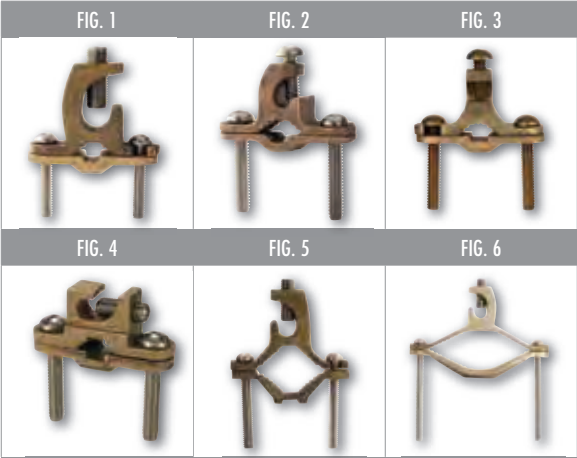
FEATURES

- The ultimate ground clamp for large ground wires.
- This incredible ground clamp can handle just about any size ground wire and just about any application.
- Lay-in feature provides for the ultimate in flexibility.
- Convenient and pre-assembled screws are 304 stainless steel.

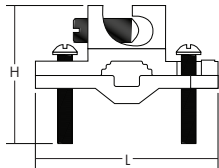


SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- Application: UL Listed for direct burial in earth and concrete, it can be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.



GLC-12 DB



GLC-140 DB

CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	GROUND WIRE RANGE	REBAR SIZE (IN.)	GROUND ROD SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
GLC-140DB	1	cULus	1/2-1	8 STR-4/0 STR	3/8-1	1/2-1	2.551	0.784	2.132	10
GLC-12DB	2	UL	1/2-1	#10-2 STR	3/8-1	1/2-1	2.281	0.714	1.382	25
GLC-12RDB	3	UL	1/2-1	#10-2 STR	3/8-1	1/2-1	2.283	0.670	1.385	25
GLC-12HDB	4	UL	1/2-1	#10-2 STR	3/8-1	1/2-1	2.362	0.708	1.200	25
GLC-240DB	5	cULus	1 1/4-2	#8-4/0 STR	—	—	3.319	0.693	3.190	6
GLC-440DB	6	cULus	2 1/2-4	#8-4/0 STR	—	—	5.688	0.823	3.743	3



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Grounding drawings.

GROUNDING

Ground Clamps

Copper & Tin Plated Copper Lay-In Lugs GLC, GLA Series



SPECIFICATIONS

GLC-4, GLC-4 DB/GLC-4 DBP

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- *UL486 A Listed wire connector.
- Temperature Rating: 90 °C.
- Voltage: 600V.

Dual Rated Lay-In Lugs (GLA)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding (GLA-4).
- **UL486 B Listed wire connector.
- Temperature Rating: *Dual rated lay-in 90 °C.
- Voltage: 600V.

FEATURES

- Lay-in lugs are used for grounding or in continuous loop bonding and are available in several variations, depending on the application.

GLC-4

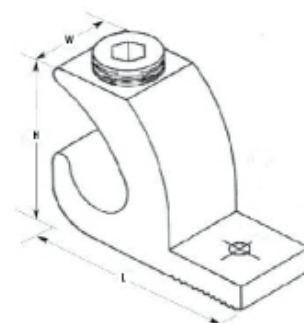
- Copper body with a steel screw and is used for general grounding applications with copper wire.

GLC-4 DB/GLC-4 DBP

- Copper bodies with stainless steel screws, are UL Listed for direct burial in earth or concrete with copper wire.

Dual Rated Lay-In Lugs (GLA)

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.



GLA Series

CAT. NO.	FIG. NO.	CERTIFICATION	MATERIAL	WIRE RANGE	USE	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
GLC-4*	1	cULus	Copper with steel screws	4 -14 AWG	General use for CU wire only	1.312	0.396	0.908	100
GLC-4DB*	1	cULus	Copper with stainless steel screws	4 -14 AWG	Direct burial for CU wire only	1.312	0.396	0.908	100
GLC-4DBP*	2	cULus	Tin-plated copper with stainless steel screws	4 -14 AWG	Direct burial for CU wire only	1.312	0.396	0.908	100
GLA-4**	3	cULus	Tin-plated aluminum with stainless steel screws	4-14 AWG	General use for AL/CU wire	1.070	0.380	0.750	100
GLA-0**	3	cULus	Tin-plated aluminum with steel screws	1/0-8 AWG	General use for AL/CU wire	1.500	0.600	1.100	40
GLA-000**	3	cULus	Tin-plated aluminum with steel screws	3/0-6 AWG	General use for AL/CU wire	2.000	0.800	1.500	20
GLA-250**	4	cULus	Tin-plated aluminum with steel screws	250 MCM-6 AWG	General use for AL/CU wire	2.200	0.800	1.700	20

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GROUNDING

Ground Clamps

Heavy Duty Direct Burial

G-S-DB, G-S-BS Series

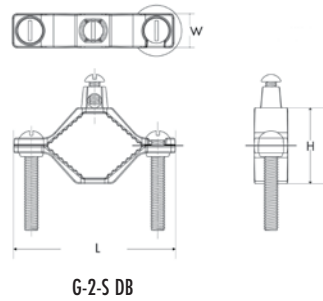
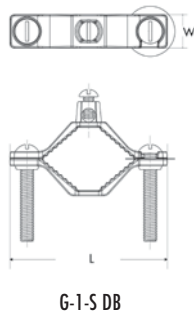
FEATURES

- Screws are 304 stainless steel.
- *G-S-DB are available with silicon bronze screws by adding suffix of -SB.



SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS)	REBAR SIZE (IN.)	GROUND WIRE BOLT SIZE (IN.)	GROUND CLAMP BOLT SIZE (IN.)	GROUND WIRE RANGE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
G-1-SDB*	1	UL	1/2-1	—	1/4"-20 x 1/2"	1/4"-20 x 1.50"	10 SOL — 2 STR	2.280	0.650	1.400	20
G-2-SDB*	1	UL	1 1/4-2	—	1/4"-20 x 1/2"	5/16"-18 x 2"	10 SOL — 2 STR	3.600	0.750	1.690	10



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GROUNDING

Ground Clamps

Heavy Duty Direct Burial & with Adapters
G-DB Series



FEATURES

Direct Burial With Wire Adapters (G-20DB)

- For connecting wire to copper water pipe for grounding.
- Special pressure bar grips cable armor to lessen chances of grounding conductor being pulled out.
- Assembled with silicon bronze screws.

Extra Heavy Duty Direct Burial (G-140DB)

- This incredible ground clamp can handle just about any size ground wire and just about any application.
- Assembled with tough 304 stainless steel screws.
- Will accommodate ground wires from 8 AWG to 4/0 AWG.

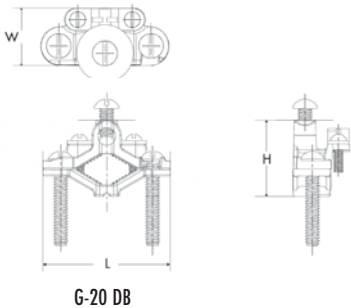
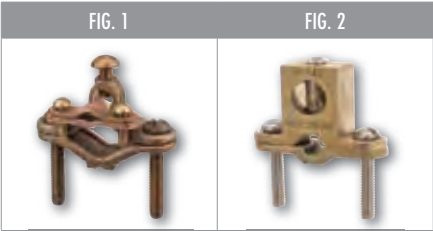
SPECIFICATIONS

Direct Burial With Wire Adapters (G-20DB)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.
- Application: UL Listed for direct burial in earth and concrete.

Extra Heavy Duty Direct Burial (G-140DB)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding).
- Application: UL Listed for direct burial in earth and concrete, be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	GROUND WIRE RANGE (IN.)	REBAR SIZE (IN.)	GROUND ROD SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
G-20DB	1	UL	1/2 - 1	4,6,8 STR	—	—	2.250	1.000	1.350	20
G-140DB	2	cULus	1	8 STR-4/0 STR	3/8-1	1/2-1	2.362	0.669	1.761	10

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GROUNDING

Ground Clamps

Heavy Duty Direct Burial with Adapters & Rebar
G-S-DBR, G-BS, RC Series



SPECIFICATIONS

Heavy Duty Bronze Ground Clamp (G-S DBR)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

HD Ground Clamp With Adapter & Brass Screws (G-BS)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

Ground Clamp With Adapter & Brass Screws (RC)

- cULus Listed 467 Grounding & Bonding/Direct Bury.
- UL467 Listed, Grounding & Bonding.
- *UL Listed for #4 STR - #2 STR.
- **Application:** For use with copper wire only. Harsh direct bury environments & Pool and Spa. Any commercial, industrial, maintenance application where ground wire needs to be connected to rebar.

FEATURES

Heavy Duty Bronze Ground Clamp (G-S DBR)

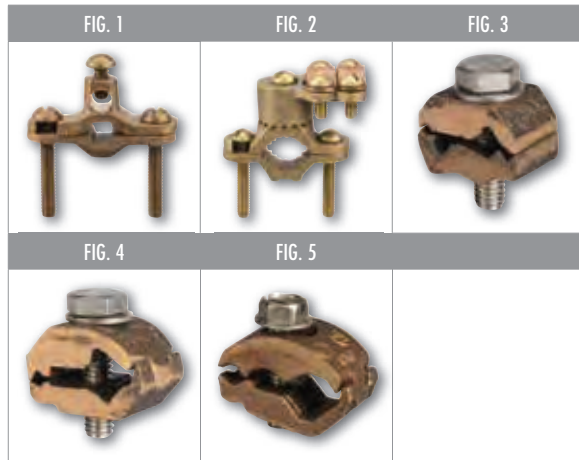
- Bronze ground clamp for bonding bare copper wire to copper water pipe.
- Assembled with tough 304 stainless steel screws.
- Available with silicon bronze screws by adding suffix -SB.

HD Ground Clamp With Adapter & Brass Screws (G-BS)

- Bronze clamps for copper water pipes with bronze adapters.
- Assembled with brass screws.

Ground Clamp With Adapter & Brass Screws (RC)

- Lay-in style clamp allows for continuous loop wiring.
- Cast silicon bronze connector & Stainless steel hardware.



CAT. NO.	FIG. NO.	CERTIFICATION	GROUND WIRE RANGE (IN.)	PIPE SIZE (IPS) (IN.)	REBAR SIZE (IN.)	GROUND ROD SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	STD. CTN. QTY.
G-1-SDBR	1	cULus	10 SOL - 2 STR	1/2-1	3/8 - 1	3/8-1	2.280	0.650	1.400	20
G-2BS	2	UL	8-4/0 STR	1/2-1	—	—	2.320	0.748	1.437	20
G-3BS	2	cULus	8-4/0 STR	1/2-1	—	—	2.320	0.748	1.437	20
RC38	3	cULus	8-6 SOL	—	3/8	—	1.14	0.74	0.75	25
RC50	4	cULus	8 SOL - 4 STR	—	1/2	—	1.35	0.83	0.91	25
RC58*	5	UL	6 SOL - 2/0 STR	—	5/8	—	1.62	0.80	1.06	25



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GROUNDING

Ground Clamps

Bronze Ground Clamps & Heavy Duty Water
G-S, G-SBS, G Series



SPECIFICATIONS

Bronze Ground Clamps (G-S), (G-SBS)

- *cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding).

Heavy Duty Water Pipe Clamps (G)

- UL467 Listed, Grounding & Bonding.

FEATURES

Bronze Ground Clamps (G-S)

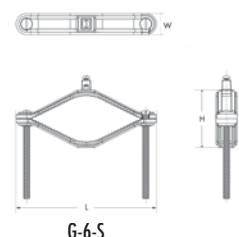
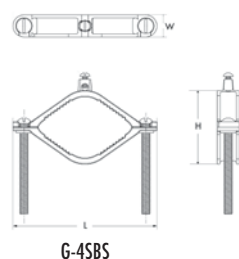
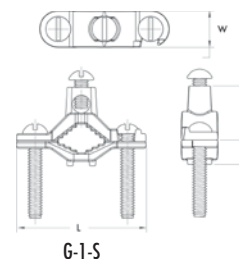
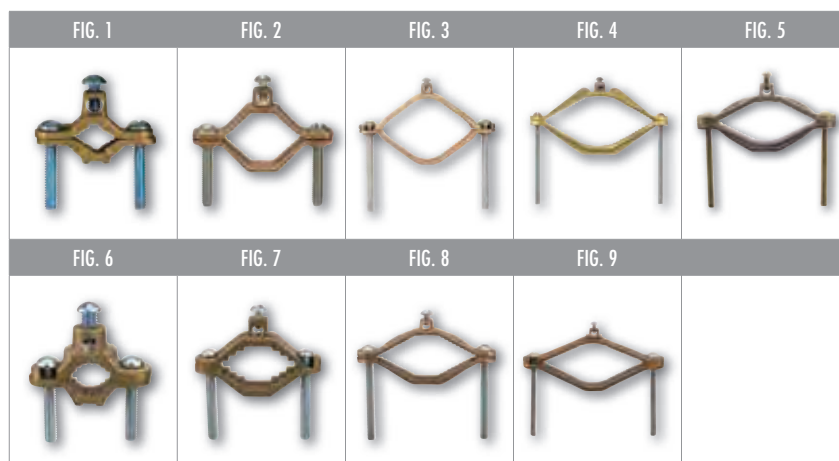
- Bronze ground clamp for bonding bare copper wire to water pipe or for use as a water meter shunt.
- Zinc plated steel screws.

Bronze Ground Clamps (G-SBS)

- Used to connect bare copper wire to copper water pipe, ground rods and rebar for bonding.
- Assembled with copper alloy screws and UL Listed for direct burial in earth and concrete.
- Can accommodate ground wires up to 2 AWG.

Heavy Duty Water Pipe Clamps (G)

- Bronze water pipe clamps with serrated head.
- Cast bronze body with plated steel screws.
- Designed for use alone or with heavy duty bronze adapters.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	GROUND WIRE RANGE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
G-1-S*	1	UL	1/2-1	10 SOL – 2 STR	2.280	0.650	1.400	20
G-2-S*	2	UL	1 1/4-2	10 SOL – 2 STR	3.600	0.750	1.690	10
G-4-S	3	UL	2 1/2-4	10 SOL – 2 STR	6.350	0.970	3.750	6
G-6-S	4	cULus	4 1/2-6	10 SOL – 2 STR	8.300	1.250	4.000	3
G-4-SBS	5	UL	2 1/2-4	10 SOL – 2 STR	6.350	0.970	3.750	6
G-1	6	UL	1/2-1	10 SOL – 2 STR	2.200	0.748	1.437	25
G-2	7	UL	1 1/4-2	10 SOL – 2 STR	3.500	0.847	2.180	15
G-12	8	cULus	2 1/2-4	10 SOL – 2 STR	6.250	0.943	3.674	6
G-13	9	UL	4 1/2-6	10 SOL – 2 STR	7.916	0.933	4.165	4

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GROUNDING

Ground Clamps

Aluminum & Bronze Ground Clamps

GCA, G Series



SPECIFICATIONS

Aluminum Ground Clamps (GCA)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

Bronze Ground Clamps With Wire Adapters (G)

- UL467 Listed, Grounding & Bonding.

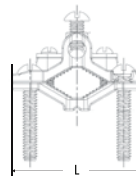
FEATURES

Aluminum Ground Clamps (GCA)

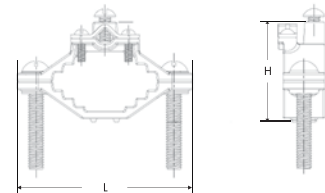
- Dual-rated ground clamp that grounds aluminum or copper to water pipe, galvanized pipe or steel conduit.
- Constructed from high-strength, extruded aluminum alloy and are plated to provide low-contact resistance.
- Zinc plated steel screws.

Bronze Ground Clamps With Wire Adapters (G)

- For connecting unarmored wire to water pipe for grounding.
- Special pressure bar grips cable to lessen chances of grounding conductor being pulled out.
- Assembled with zinc-plated steel screws.



G-20



G-66

CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	GROUND WIRE RANGE (IN.)	GROUND WIRE BOLT SIZE (IN.)	GROUND CLAMP BOLT SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
GCA-1	1	UL	1/2-1	1/0-14 AWG	—	—	2.260	0.685	1.670	25
GCA-2	1	UL	1 1/4-2	250 MCM-6 AWG	—	—	3.760	0.828	2.930	10
GCA-4	2	UL	2 1/2-4	250 MCM-6 AWG	—	—	6.125	0.996	4.630	3
G-20	3	UL	1/2-1	4,6,8 STR	1/4 - 20 x 1/2	1/4 - 20 x 1 1/2	2.250	1.000	1.350	20
G-66	4	UL	1 1/4-2	4,6,8 STR	1/4 - 20 x 1/2	5/16 - 18 x 2	3.580	0.850	2.040	10



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GROUNDING

Ground Clamps

Heavy Duty & with 360° Adapters for Rigid Conduit G Series



SPECIFICATIONS

Heavy Duty Bronze (G)

- UL467 Listed, Grounding & Bonding).

For Rigid Conduit (G)

- UL467 Listed, Grounding & Bonding.
- CSA.

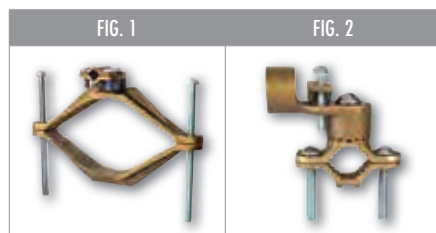
FEATURES

Heavy Duty Bronze (G)

- Heavy duty bronze adapters have serrations that match the serrations on the ground clamp, assuring positive lock.
- All adapters fit all clamps for the ultimate flexibility.
- Assembled with zinc plated steel hardware.
- Used to connect grounding conductor to rigid conduit on water pipe.

For Rigid Conduit (G)

- Used to connect grounding conductor to rigid conduit on water pipe.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	CONDUIT HUB SIZE (IN.)	GROUND WIRE RANGE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
G-3	1	UL	1 1/2-1	—	8-4/0 STR	2.320	0.748	1.437	20
G-4	1	UL	1 1/4-2	—	8-4/0 STR	3.528	0.850	2.706	10
G-15	1	UL	2 1/2-4	—	8-4/0 STR	6.125	0.964	3.962	6
G-16	1	cULus	4 1/2-6	—	8-4/0 STR	7.916	0.933	4.565	3
G-5	2	cULus	1/2 - 1	1/2	10 SOL - 2/0 STR	2.200	0.748	2.437	15
G-6	2	cULus	1 1/4 - 2	1/2	10 SOL - 2/0 STR	3.667	0.791	3.195	10
G-7	2	UL	1/2 - 1	3/4	10 SOL - 3/0 STR	2.200	0.748	1.437	15
G-8	2	UL	1 1/4 - 2	3/4	10 SOL - 3/0 STR	3.616	0.791	3.298	8
G-9	2	cULus	1/2 - 1	1	10 SOL - 3/0 STR	2.315	0.747	3.159	12
G-10	2	UL	1 1/4 - 2	1	10 SOL - 3/0 STR	3.616	0.816	3.561	8
G-18	2	UL	2 1/2 - 4	1/2	10 SOL - 2/0 STR	6.125	0.961	4.812	6
G-19	2	cULus	4 1/2 - 6	1/2	10 SOL - 2/0 STR	8.125	1.263	4.740	3
G-21	2	cULus	2 1/2 - 4	3/4	10 SOL - 3/0 STR	6.125	0.961	4.943	6
G-22	2	UL	4 1/2 - 6	3/4	10 SOL - 3/0 STR	8.227	1.244	5.050	3
G-24	2	cULus	2 1/2 - 4	1	10 SOL - 3/0 STR	6.125	0.940	5.191	6
G-25	2	UL	4 1/2 - 6	1	10 SOL - 3/0 STR	8.225	1.260	5.245	3

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GROUNDING

Ground Clamps

Heavy Duty & with 360° Adapters for Rigid Conduit
EG Series

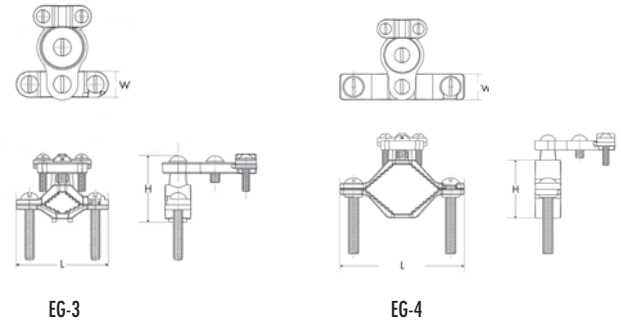
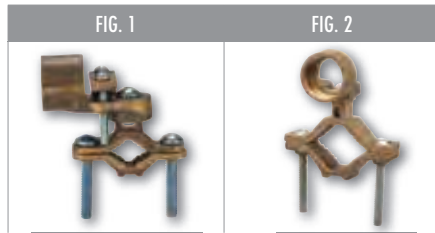


SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.

FEATURES

- Bronze water pipe clamps with bronze adapters.
- Excellent quality yet economical.
- All adapters are interchangeable.
- Assembled with zinc-plated steel screws.
- Hub swings 360° for easy alignment.
- Used to connect rigid conduit and ground conductor to water pipe.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	GROUND WIRE RANGE (IN.)	CONDUIT HUB SIZE (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
EG-3	1	cULus	1/2 - 1	10 SOL - 2/0 STR	1/2	2.200	0.585	2.300	20
EG-4	1	UL	1 1/4 - 2	10 SOL - 2/0 STR	1/2	3.588	0.737	3.117	10
EG-5	1	cULus	1/2 - 1	10 SOL - 2/0 STR	1/2	2.208	0.597	2.210	15
EG-6	1	UL	1 1/4 - 2	10 SOL - 2/0 STR	1/2	3.631	0.725	2.696	10
EG-7	1	UL	1/2 - 1	10 SOL - 2/0 STR	3/4	2.298	0.663	2.470	15
EG-8	1	UL	1 1/4 - 2	10 SOL - 2/0 STR	3/4	3.576	0.789	3.841	8
EG-9	1	UL	1/2 - 1	10 SOL - 3/0 STR	1	2.280	0.650	1.900	12
EG-10	2	UL	1 1/4 - 2	10 SOL - 3/0 STR	1	3.587	0.792	4.029	8
EG-15	2	cULus	2 1/2 - 4	10 SOL - 2/0 STR	1/2	6.125	0.972	4.834	6
EG-24	2	UL	2 1/2 - 4	10 SOL - 3/0 STR	1	6.125	0.962	5.158	6



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GROUNDING

Ground Clamps

Rigid Conduit with Flexible Wire Strap
G Series

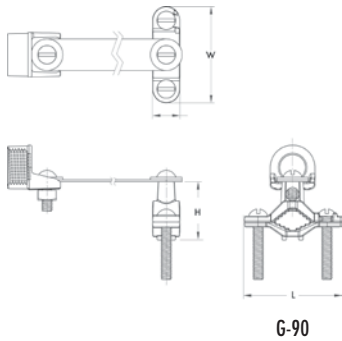
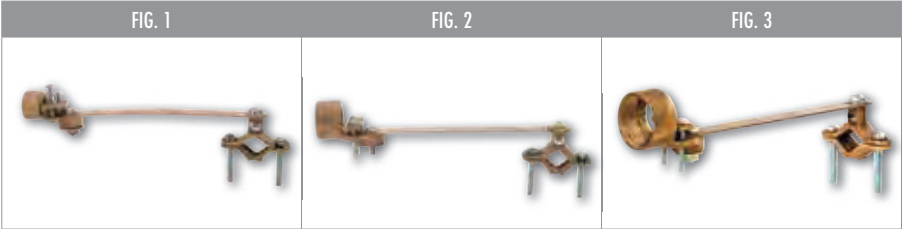


SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.

FEATURES

- For connecting the grounding conductor in rigid conduit to water pipe.
- Copper strap allows flexibility during grounding and helps protect the conduit system from the results of vibrations in the water system.
- Assembled with zinc-plated steel screws.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	GROUNDWIRE RANGE (IN.)	CONDUIT HUB SIZE (IN.)	STD. CTN. QTY.
G-90	1	cULus	1/2 - 1	10 SOL – 2/0 STR	1/2	15
G-79	2	UL	1/2 - 1	10 SOL – 2/0 STR	3/4	12
G-83	3	UL	1/2 - 1	10 SOL – 3/0 STR	1	12

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GROUNDING

Ground Clamps

Economy & 360° Swing Type Hubs
GH, GHM Series

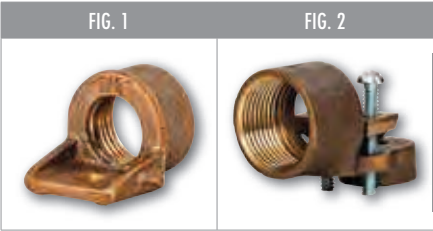
FEATURES

Economy 360° Hub (GH)

- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground clamp to ground conductor to water pipe.

360° Swing Type (GHM)

- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground clamp with serrated hub to ground conductor to water pipe.
- Allows entry from any direction.
- Zinc plated steel screws.



CAT. NO.	FIG. NO.	CONDUIT HUB SIZE (IN.)	GROUND WIRE RANGE (IN.)	STD. CTN. QTY.
GH-50	1	1/2	10 SOL – 4 STR	50
GH-75	1	3/4	10 SOL – 2/0 STR	25
GH-100	1	1	10 SOL – 3/0 STR	15
GHM-50	2	1/2	10 SOL – 2/0 STR	50
GHM-75	2	3/4	10 SOL – 2/0 STR	75
GHM-100	2	1	10 SOL – 3/0 STR	15



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GROUNDING

Ground Clamps

Zinc Die Cast & Standard Duty Silicon Bronze

GZ, GRC Series



SPECIFICATIONS

Zinc Die-Cast Ground Clamps (GZ)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.

Standard Duty Silicon Bronze (GRC)

- cULus Listed 467 Grounding and Bonding.
- UL467 Listed, Grounding & Bonding.

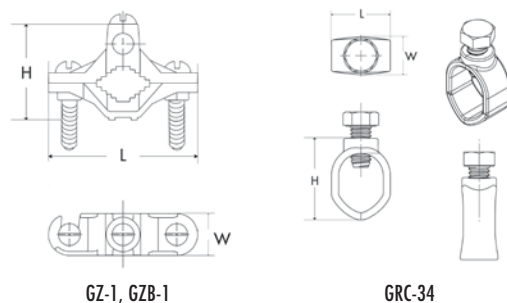
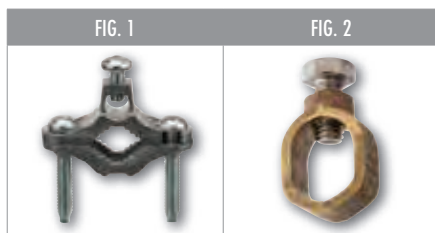
FEATURES

Zinc Die-Cast Ground Clamps (GZ)

- Die cast from high-strength zinc alloy.
- Used to connect bare copper wire for grounding.
- Zinc plated steel screws.
- GZB-1 is brass plated and not UL Listed.

Standard Duty Silicon Bronze (GRC)

- Ground rod clamps are made from silicon bronze with 304 stainless steel screws for maximum strength.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.
- **Available with silicon bronze screws by adding suffix of -SB.



CAT. NO.	FIG. NO.	CERTIFICATION	GROUND WIRE RANGE (IN.)	CONDUIT SIZE (IN.)	GROUND ROD SIZE (IN.)	REBAR SIZE (IN.)	GROUND WIRE MAXIMUM (IN.)	STD. CTN. QTY.
GZ-1	1	UL	2 - 10	1/2 - 1	—	—	—	20
GZB-1	1	—	2 - 10	1/2 - 1	—	—	—	20
GRC 38**	2	—	—	—	3/8	—	10 SOL — 4 STR	50
GRC 50**	2	cULus	—	—	1/2	3/8	10 SOL — 2 STR	25
GRC 58**	2	cULus	—	—	5/8	1/2	10 SOL — 2 STR	25
GRC 34**	2	cULus	—	—	3/4	5/8	10 SOL — 1 STR	20

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GROUNDING
Ground Clamps

Heavy Duty Silicon Bronze & Range Taking Rod Clamp
GRC Series



SPECIFICATIONS

- UL Listed for Direct Burial in Earth & Concrete.

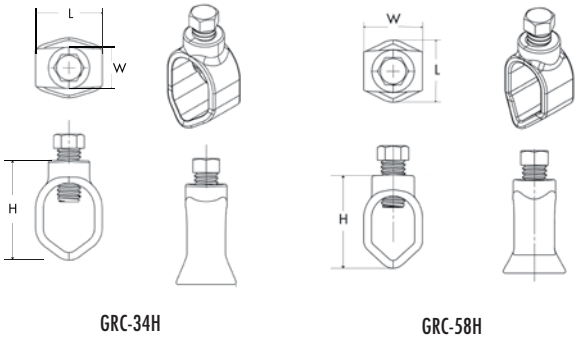
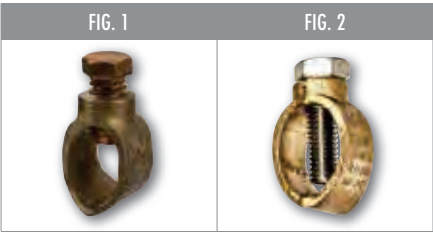
FEATURES

Heavy Duty Silicon Bronze (GRC-H)

- Ground rod clamps are made from silicon bronze for maximum strength.
- A silicon bronze screw furnishes maximum clamping force.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.
- *Available with silicon bronze screws by adding suffix -SB.

Range Taking Rod Clamp (GRC)

- This heavy duty ground rod clamp replaces all existing ground rod clamps, eliminating the need to stock several different sizes and types.
- UL listed for direct burial in earth and concrete, heavy duty construction enables it to handle large ground wires up to 1/0 AWG – much larger than a standard ground rod clamp.
- Suitable for 3/8", 1/2", 5/8", 3/4" ground rods.
- *Available with silicon bronze screws by adding suffix -SB.



CAT. NO.	FIG. NO.	CERTIFICATION	GROUND WIRE RANGE (IN.)	GROUND ROD SIZE (IN.)	REBAR SIZE (IN.)	GROUND WIRE MAXIMUM (IN.)	STD. CTN. QTY.
GRC-34H*	1	UL	8 SOL – 1/0 STR	3/4	–	1/0 STR	20
GRC-50H*	1	UL	10 SOL – 2 STR	1/2	–	2 STR	25
GRC-58H*	1	UL	10 SOL – 1/0 STR	5/8	–	1/0 STR	20
GRC-100H*	1	UL	8 SOL – 4/0 STR	1	–	4/0 STR	10
GRC-3834*	2	cULus	10 SOL – 1/0 STR	3/8, 1/2, 5/8	3/8, 1/2, 5/8	1/0 STR	25



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GROUNDING

Grounding Connectors

Intersystem Bonding Connectors

GBIAL, GBIBZ Series

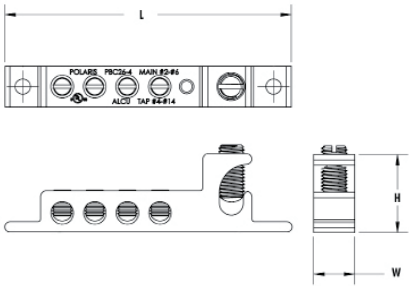
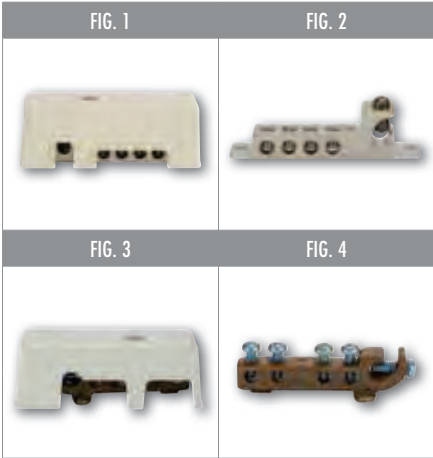


- SPECIFICATIONS**
- Zinc Die-Cast Ground Clamps (GZ)**
- cULus Listed 467 Grounding & Bonding.
 - UL467 Listed, Grounding & Bonding.

- FEATURES**
- Convenient lay-in feature for main grounding conductor, accommodates #2 to #6 AWG.
 - Lay-In feature eliminates the need to cut or splice to main electrode.
 - Lay-In feature eliminates disassembling ground to rod connection.
 - Optional UV Resistant paintable cover for more desirable appearance.
 - For indoor and outdoor use.
 - Compact size measures 1.4"H x 1.19"W x 3.93"L.

- GBIAL**
- Supplied with stainless steel screws to prevent corrosion.
 - Dual rated for copper or aluminum conductor.

- GBIBZ**
- Assembled with Zinc plated steel screws.
 - Rated for copper conductor only.



CAT. NO.	FIG. NO.	MATERIAL	DESCRIPTION	WIRE RANGE (IN.)	NO. OF CIRCUITS (IN.)	STD. CTN. QTY.
GBIAL 126-4414-WC	1	Aluminum	With cover	(1) 2-6, (4) 4-14	4	1
GBIAL 126-4414	2	Aluminum	Cover not included	(1) 2-6, (4) 4-14	4	1
GBIBZ 126-4414-WC	3	Bronze	With cover	(1) 2-6, (4) 4-14	4	1
GBIBZ 126-4414	4	Bronze	Cover not included	(1) 2-6, (4) 4-14	4	1

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GROUNDING

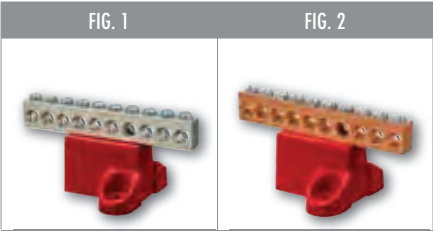
Grounding Connectors

Isolated Ground Bars

GBA, GBC Series

FEATURES

- Made from either high-strength aluminum alloy 6061-T6 or high-conductivity copper as indicated below.
- The base is made from high-strength glass-filled polyester.
- Aluminum connectors are dual-rated for use with aluminum or copper cables.



CAT. NO.	FIG. NO.	MATERIAL	WIRE RANGE	NO. OF CIRCUITS	LENGTH (L) (IN.)	HEIGHT (H) (IN.)	WIDTH (W) (IN.)	STD. CTN. QTY.
GBA2-7	1	Aluminum	AL/CU 2 - 14	7	2.88	2.31	1.88	3
GBC2-7	2	Copper	CU 2 - 14	7	2.88	2.31	1.75	3
GBA2-10	1	Aluminum	AL/CU 2 - 14	10	4.07	2.31	1.88	3
GBC2-10	2	Copper	CU 2 - 14	10	4.07	2.31	1.75	3
GBA2-14	1	Aluminum	AL/CU 2 - 14	14	5.56	2.31	1.88	2
GBC2-14	2	Copper	CU 2 - 14	14	5.56	2.31	1.75	2
GBA2-20	1	Aluminum	AL/CU 2 - 14	20	8.04	2.31	1.88	2
GBC2-20	2	Copper	CU 2 - 14	20	8.04	2.31	1.75	2
GBA20-7	1	Aluminum	AL/CU 2/0 - 14	7	4.61	2.31	2.13	3
GBA20-10	1	Aluminum	AL/CU 2/0 - 14	10	6.41	2.31	2.13	3
GBA20-14	1	Aluminum	CL/CU 2/0 - 14	14	8.81	2.31	2.13	2



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GROUNDING

Grounding Connectors

Heavy Duty for Parallel, 90° Copper Cable
UC Series



SPECIFICATIONS

- UL467 Listed, Grounding & Bonding.

FEATURES

- Made of high-copper-content alloy for grounding to
- 1/2" - 1" ground rods and ground pipes from
- 1/4" - 3 1/2" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- For use with single wire.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	ROD SIZE (IN.)	CABLE RANGE (IN.)	STD. CTN. QTY.
UC-101	1	UL	1/4	1/2	2/0 - 4	12
UC-102	1	Not UL Listed	1/4	1/2	250-2/0	12
UC-103	1	UL	3/8	5/8 - 3/4	4 - 8	12
UC-104	1	UL	3/8	5/8 - 3/4	2/0 - 4	12
UC-105	1	UL	3/8	5/8 - 3/4	250 - 2/0	12
UC-108	1	UL	1/2 - 3/4	7/8 - 1	2/0 - 4	12
UC-109	1	UL	1/2 - 3/4	7/8 - 1	250 - 2/0	12
UC-110	1	Not UL Listed	1/2 - 3/4	7/8 - 1	300-500	12
UC-114	2	UL	1	—	2/0 - 4	6
UC-115	2	UL	1	—	250 - 2/0	12
UC-120	2	UL	1 1/4	—	2/0 - 4	12
UC-121	2	UL	1 1/4	—	250 - 2/0	12
UC-126	2	UL	1 1/2	—	2/0 - 4	12
UC-127	2	UL	1 1/2	—	250 - 2/0	12
UC-132	3	UL	2	—	2/0 - 4	12
UC-133	3	UL	2	—	250 - 2/0	6
UC-137	3	UL	2 1/2	—	2/0 - 4	6
UC-138	3	UL	2 1/2	—	250 - 2/0	6
UC-142	4	UL	3	—	2/0 - 4	6
UC-143	4	UL	3	—	250 - 2/0	6
UC-147	4	UL	3 1/2	—	2/0 - 4	3
UC-148	4	Not UL Listed	3 1/2	—	250 - 2/0	3

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GROUNDING

Grounding Connectors

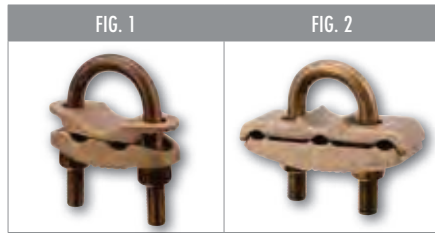
Heavy Duty for Parallel

UC Series



FEATURES

- Made of high-copper-content alloy for grounding to 1/2" - 1" ground rods and ground pipes from 1/4" - 3 1/2" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- 200 Series for use with two wires and 300 Series for use with three wires.



CAT. NO.	FIG. NO.	CERTIFICATION	PIPE SIZE (IPS) (IN.)	CABLE RANGE (IN.)	STD. CTN. QTY.
UC-214	1	UL	1	2/0 - 4	6
UC-215	1	UL	1	250 - 2/0	6
UC-221	1	UL	1 1/4	250 - 2/0	6
UC-226	1	UL	1 1/2	2/0 - 4	6
UC-227	1	UL	1 1/2	250 - 2/0	6
UC-232	1	UL	2	2/0 - 4	6
UC-233	1	UL	2	250 - 2/0	3
UC-237	1	UL	2 1/2	2/0 - 4	3
UC-238	1	UL	2 1/2	250 - 2/0	3
UC-242	1	UL	3	2/0 - 4	3
UC-243	1	UL	3	250 - 2/0	3
UC-315	2	UL	1	250 - 2/0	6
UC-320	2	UL	1 1/4	2/0 - 4	6
UC-326	2	UL	1 1/2	2/0 - 4	6
UC-327	2	UL	1 1/2	250 - 2/0	6
UC-332	2	UL	2	2/0 - 4	6
UC-338	2	UL	2 1/2	250 - 2/0	3
UC-342	2	UL	3	2/0 - 4	3
UC-343	2	UL	3	250 - 2/0	3



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GROUNDING

Grounding Connectors

C Taps
CT, CTH Series



SPECIFICATIONS

CT Series, CTH Series

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

FEATURES

CT Series

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

CTH Series

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

CTH Series

- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation.
- Installation time is reduced because of its "C" shape.



C-TAPS ORDER INFO

- Find them in the Connectors Section pages 66-68.

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GROUNDING

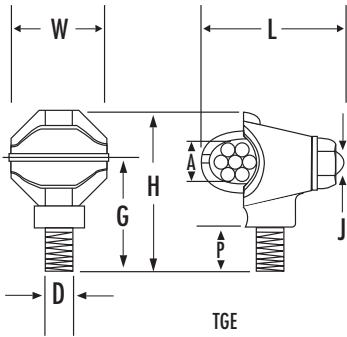
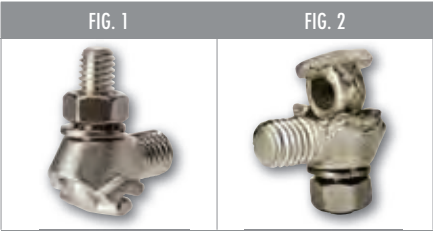
Grounding Connectors

Transformer Ground Clamps

TGE Series

FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The TGE may be tightened by using a wrench on the body.



CAT. NO.	FIG. NO.	COPPER CONDUCTOR RANGE (A) (IN.)	FINISH	WIRE DIA. (IN.)	STUD SIZE (D) (IN.)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	HEIGHT (H) (IN.)	STD. CTN. QTY.
TGE-1	1	10 SOL - 1 STR	Plain	.102/.332	1/2 - 13	1.450	0.932	1.701	50
TGE-2/0	1	8 SOL -2/0 STR	Plain	.128/.419	1/2 - 13	1.782	1.225	2.208	15
TGE-250	1	6 SOL - 250MCM	Plain	.162/.575	1/2 - 13	2.760	1.863	2.569	10
TGE-2/0TN	2	8 SOL -2/0 STR	Tin Plated	.128/.419	1/2 - 13	1.782	1.225	2.208	15
TGE-250TN	2	6 SOL - 250MCM	Tin Plated	.162/.575	1/2 - 13	2.760	1.863	2.569	10



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GROUNDING

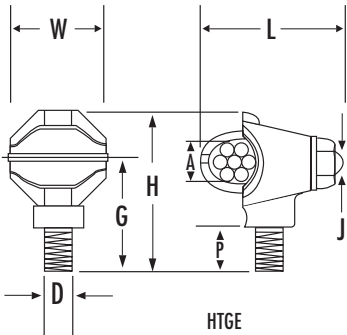
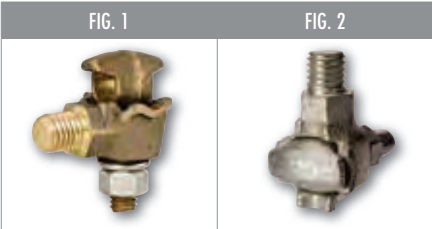
Grounding Connectors

Two-Way Baskets

HTGE Series

FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The HTGE provides a hex or square shoulder for wrench tightening.
- The flat surface also acts as a seal to the tank.



CAT. NO.	FIG. NO.	COPPER CONDUCTOR RANGE (A)	FINISH	WIRE DIA.	STUD SIZE (D) (IN.)	APPROX DIMENSIONS (IN.)											
						G		H		J		L		P		W	
						IN.	MM.	IN.	MM.	(EYEBOLT) IN.	IN.	MM.	IN.	MM.	IN.	MM.	
HTGE-1	1	10 SOL - 1 STR	Plain	.102/.332	1/2 - 13	1 - 3/16	30	1 - 3/4	44	3/8 - 16	1 - 31/32	50	7/16	11	1 - 1/8	28	
HTGE-2/O	1	8 SOL - 2/O STR	Plain	.128/.419	1/2 - 13	1 - 5/16	33	1 - 15/16	49	3/8 - 16	2	51	7/16	11	1 - 1/4	32	
HTGE-250	1	6 SOL - 250MCM	Plain	.162/.575	1/2 - 13	1 - 3/16	30	2 - 1/8	54	1/2 - 13	2 - 5/8	67	15/32	12	1 - 7/8	48	
HTGE-2/OTN	2	8 SOL - 2/O STR	Tin Plated	.128/.419	1/2 - 13	1 - 5/16	33	1 - 15/16	49	3/8 - 16	2	51	7/16	11	1 - 1/4	32	
HTGE-250TN	2	6 SOL - 250MCM	Tin Plated	.162/.575	1/2 - 13	1 - 3/16	30	2 - 1/8	54	1/2 - 13	2 - 5/8	67	15/32	12	1 - 7/8	48	

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GROUNDING

Grounding Connectors

Flexible Braid Jumper Straps & Ground Straps

FS, SA Series

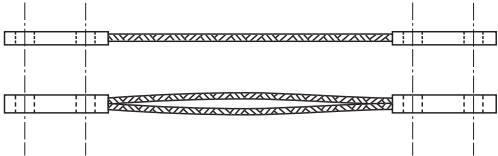
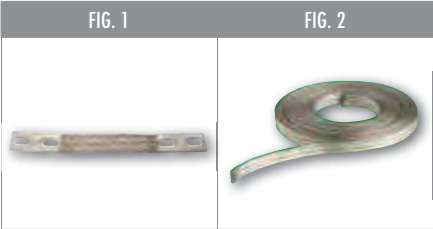
FEATURES

Jumper Straps (FS)

- Recommended for motion due to expansion, contraction, vibration and operational movement of current carrying members.
- Manufactured from flat, extra-flexible tinned braid, they are available in a wide variety of sizes and amperages.
- The ferrules are made from pure electrolytic copper and are tin-plated.
- Standard mounting holes are 9/16" NEMA spaded holes.

Ground Straps (SA)

- Woven of high conductivity, annealed, tinned copper wire, this braided ground strap provides maximum flexibility and ease of handling when installing ground or shield continuity.
- This braid is used for shield and lead-sheath grounding and is easily soldered to lead, copper and tinned metals.
- It is also used for continuing the fault-carrying capacity of the cable shield as a jumper braid.



FS Series

CAT NO.	FIG. NO.	AMPERE RATING INDOORS OUTDOORS		APPROX. CIRCULAR MILS	THICKNESS (IN.)	EQUIVALENT AWG SIZE	LENGTH (L) (IN.)	WIDTH (W) (IN.) (2 HOLE PAD ONLY)	STD. CTN. QTY.
FS1-19-8N	1	190	225	77,000	1/4	—	12	11/16	1
FS1-19-8N-18	1	190	225	77,000	1/4	—	18	11/16	1
FS1-19-8N-24	1	190	225	77,000	1/4	—	24	11/16	1
FS1-33-8N	1	330	400	154,500	1/4	—	12	1 1/2	1
FS1-33-8N-18	1	330	400	154,500	1/4	—	18	1 1/2	1
FS1-33-8N-24	1	330	400	154,000	1/4	—	24	1 1/2	1
FS2-60-8N	1	600	720	463,000	7/16	—	12	13/16	1
SA 382B	2	—	—	—	—	9 AWG	25	3/8	1
SA 382C	2	—	—	—	—	9 AWG	100	3/8	1
SA 582B	2	—	—	—	—	6 AWG	25	1/2	1
SA 582C	2	—	—	—	—	6 AWG	100	1/2	1



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GROUNDING

Grounding Connectors

Grounding Pigtails (for solid & stranded wire) & Clips
PG, GGC, GSH, GSC Series

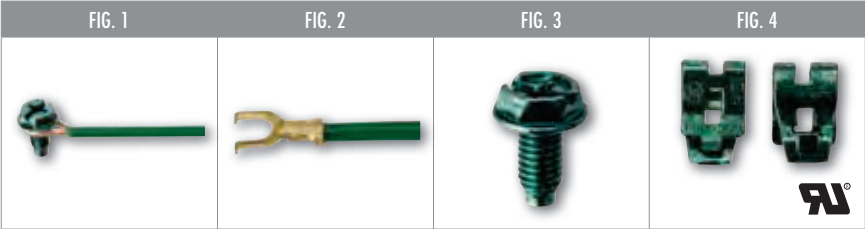
FEATURES

Solid Pigtails With Screws

- Pigtails are insulated conductors supplied with an attached ground screw on one end and the insulation stripped back one inch on the other end.
- Meets NEC requirements.

Stranded With Ring & Spade

- Supplied with a spade terminal on one end and a ring terminal with a captive green-dyed screw on the other end.
- 65 strand #12 AWG and 41 strand #14 AWG for maximum flexibility.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
PG14C	1	6.5 Inch 14 AWG Solid With Combo Screw - Green	50
PG12C	1	6.5 Inch 12 AWG Solid With Combo Screw - Green	50
PG12C-8	1	8 Inch 12 AWG Solid With Combo Screw - Green	50
PG14SC	2	8 Inch 14 AWG (41W) Stranded With Combo Slotted Screw	50
PG12SC	2	8 Inch 12 AWG (65W) Stranded With Combo Slotted Screw	50
GSH	3	Hex Head Green Grounding Screw	100
GSC	3	Combo Slotted Hex Screw	100
GGC-1000	4	Green Grounding Clips	100

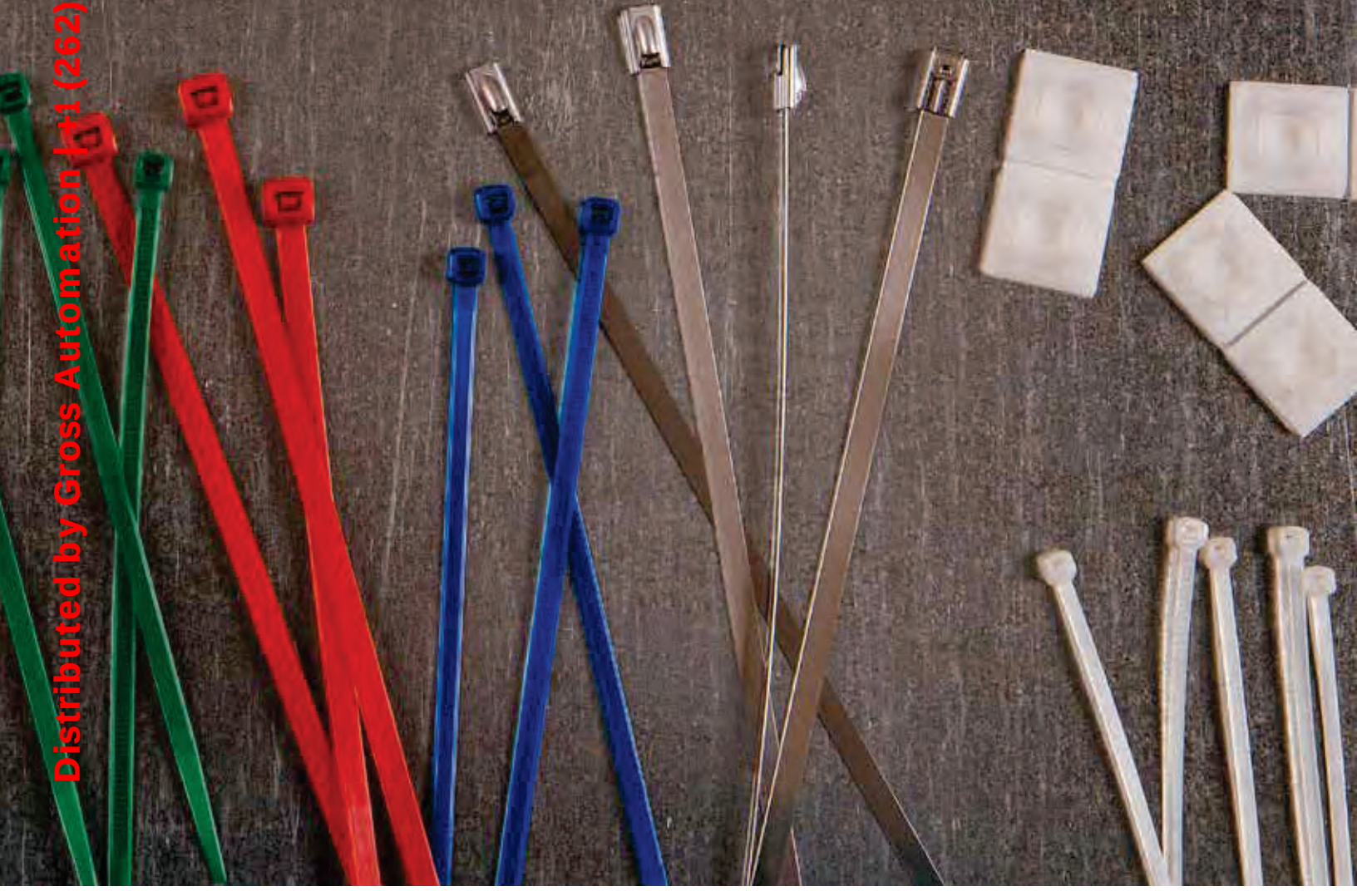
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CABLE TIES



CABLE TIES

Standard (Natural) Cable Ties

Standard - Natural Series



SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C)
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



CAT. NO.	MAX. WIRE/CABLE SIZE (L)	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
418	4"	0.800	18 Lbs.	4.000	0.095	100	5,000
418X	4"	0.800	18 Lbs..	4.000	0.095	1000	5,000
450	4"	0.800	50 Lbs.	4.750	0.095	100	5,000
518	5"	1.430	18 Lbs.	5.500	0.095	100	5,000
518X	5"	1.375	18 Lbs.	5.500	0.100	1000	5,000
540	5"	1.300	40 Lbs.	5.500	0.140	100	3,000
540X	5"	1.300	40 Lbs.	5.500	0.140	1000	3,000
650	6"	1.320	50 Lbs.	6.250	0.181	100	3,000
650X	6"	1.320	50 Lbs.	6.250	0.181	1000	3,000
750	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750X	7"	1.810	50 Lbs.	7.500	0.189	1000	3,000
818	8"	2.060	18 Lbs.	8.000	0.095	100	3,000
818X	8"	2.060	18 Lbs.	8.000	0.095	1000	3,000
840	8"	2.060	40 Lbs.	8.000	0.140	100	3,000
840X	8"	2.060	40 Lbs.	8.000	0.140	1000	3,000
850	8"	1.940	50 Lbs.	8.000	0.189	100	3,000
850X	8"	1.940	50 Lbs.	8.000	0.189	1000	3,000
875	8"	1.940	75 Lbs.	8.000	0.189	100	3000
8120	8"	2.000	120 Lbs.	8.000	0.300	100	2,000
8120X	8"	2.000	120 Lbs.	8.000	0.300	1000	2,000

CABLE TIES
Standard (Natural) Cable Ties
Standard - Natural Series



FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- Temperature Rating: Min., -40°F to Max., 185°F (-40°C to 85°C)
- Ideal Storage: 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- Type 21 AH-2: "Suitable for use in air-handling spaces (Plenums)".



CAT. NO.	MAX. WIRE/CABLE SIZE (L)	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
1140	11"	3.300	40 Lbs.	11.500	0.140	100	2,000
1140X	11"	3.300	40 Lbs.	11.500	0.140	1000	2,000
1150	11"	2.940	50 Lbs.	11.100	0.189	100	2,000
1150X	11"	2.940	50 Lbs.	11.100	0.189	1000	2,000
1175	11"	2.940	75 Lbs.	11.100	0.189	100	2,000
11120	11"	3.000	120 Lbs.	11.500	0.300	100	2,000
1450	14"	4.070	50 Lbs.	14.100	0.189	100	3,000
1450X	14"	4.070	50 Lbs.	14.100	0.189	1000	3,000
1475	14"	4.070	75 Lbs.	14.100	0.189	100	3,000
14120	14"	4.070	120 Lbs.	14.250	0.300	100	2,000
15250	15"	4.375	250 Lbs.	15.000	0.500	50	500
1850	18"	5.070	50 Lbs.	18.000	0.189	100	2,000
18175	18"	5.250	175 Lbs.	17.750	0.315	50	500
18250	18"	5.500	250 Lbs.	18.870	0.500	50	500
22250	22"	6.875	250 Lbs.	22.87	0.500	50	500
24175	24"	7.140	175 Lbs.	24.000	0.345	50	500
28250	28"	8.875	250 Lbs.	28.75	0.500	50	500
30175	30"	9.250	175 Lbs.	30.000	0.354	50	500
36175	36"	11.000	175 Lbs.	36.000	0.350	50	500
48175	48"	15.000	175 Lbs.	48.000	0.354	50	500

CABLE TIES

CABLE TIES

UV & Weather Resistant (Black)

Standard - Black Series



SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- Temperature Rating: Min., -40°F to Max., 185°F (-40°C to 85°C)
- Ideal Storage: 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- Type 21 AH-2: "Suitable for use in air-handling spaces (Plenums)".

FEATURES

- Made from weather resistant Nylon 66 for applications exposed to outside elements.
- UV resistant and Black color only.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



CAT. NO.	MAX. WIRE/CABLE SIZE (L)	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
4180	4"	0.800	18 Lbs	4.000	0.095	100	5,000
4180X	4"	0.800	18 Lbs	4.000	0.095	1000	5,000
4500	4"	1.430	50 Lbs	4.750	0.095	100	5,000
4500X	4"	1.375	50 Lbs	4.750	0.100	1000	5,000
5180	5"	1.300	18 Lbs	5.500	0.140	100	3,000
5180X	5"	1.300	18 Lbs	5.500	0.140	1000	3,000
5400	5"	1.320	40 Lbs	6.250	0.181	100	3,000
5400X	5"	1.320	40 Lbs	6.250	0.181	1000	3,000
6500	6"	1.810	40 Lbs	7.500	0.189	100	3,000
7500	7"	2.060	50 Lbs	8.000	0.095	100	3,000
7500X	7"	2.060	50 Lbs	8.000	0.095	1000	3,000
8180	8"	2.060	18 Lbs	8.000	0.140	100	3,000
8180X	8"	2.060	18 Lbs	8.000	0.140	1000	3,000
8400	8"	1.940	40 Lbs	8.000	0.189	100	3,000
8400X	8"	1.940	40 Lbs	8.000	0.189	1000	3,000
8500	8"	2.000	50 Lbs	8.000	0.300	100	2,000
8500X	8"	2.000	50 Lbs	8.000	0.300	1000	2,000
8750	8"	2.000	75 Lbs	8.000	0.300	100	2,000
81200	8"	3.300	120 Lbs	8.000	0.140	100	2,000

CABLE TIES

UV & Weather Resistant (Black)

Standard - Black Series



SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C)
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

FEATURES

- Made from weather resistant Nylon 66 for applications exposed to outside elements.
- UV resistant and Black color only.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



CAT. NO.	MAX. WIRE/CABLE SIZE (L)	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
11400	11"	2.940	40 Lbs	11.100	0.189	100	2,000
11500	11"	3.125	50 Lbs	11.500	0.187	100	2,000
11500X	11"	3.125	50 Lbs	11.500	0.187	1000	2,000
11750	11"	3.000	75 Lbs	11.500	0.189	100	2,000
111200	11"	3.000	120 Lbs	11.500	0.300	100	2,000
14500	14"	4.070	50 Lbs	14.100	0.189	100	3,000
14500X	14"	4.070	50 Lbs	14.100	0.189	1000	3,000
14750	14"	4.070	75 Lbs	14.100	0.189	100	3,000
141200	14"	4.070	120 Lbs	14.250	0.300	100	2,000
152500	15"	4.375	250 Lbs	15.000	0.500	50	500
18500	18"	5.070	50 Lbs	18.000	0.189	100	2,000
181750	18"	5.250	175 Lbs	17.750	0.315	50	500
182500	18"	5.500	250 Lbs	18.870	0.500	50	500
222500	22"	6.875	250 Lbs.	22.87	0.500	50	500
241750	24"	7.140	175 Lbs	24.000	0.345	50	500
282500	28"	8.875	250 Lbs.	28.75	0.500	50	500
301750	30"	9.250	175 Lbs	30.000	0.354	50	500
342500	34'	10.5	250 Lbs.	34.68	0.500	50	500
361750	36"	11.000	175 Lbs	36.000	0.350	50	500
402500	40"	12.5	250 Lbs.	40.5	0.500	50	500
481750	48"	15.000	175 Lbs	48.000	0.354	50	500
601750	60"	18.250	175 Lbs	59.000	0.354	50	500

CABLE TIES
Air Handling & Push Mount Cable Ties
-P, -PM Series



FEATURES

Air Handling (-P)

- Air handling ties are approved for indoor use in air handling spaces other than plenums and ducts per NFPA-1993.
- Made of high strength nylon, these ties are self-extinguishing and resist abrasions and chemicals such as oil, greases, solvents, dilute acids and alkalies.
- Burgundy in color for easy identification.

Push Mount (-PM)

- Secure a cable tie to a back panel quickly and easily, eliminating the possibility of adhesive mount failure.
- Drill the mounting hole and insert.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and excellent dielectric properties.

SPECIFICATIONS

- UL Listed and CSA (-P).
- Meets UL62275 test standards. MIL spec. 3367-1, -7, -2. NEC Sec. 300-22 (C) & (D), Rules 12-010 (3), (4), and (5) and 12-020 of the Canadian Electrical code, Part 1.
- Temperature Rating (-P): Maximum operating temperature 85 °C (185 °F).
- Temperature Rating (-PM): -40 °C to 85 °C (-40 °F to 185 °F) and will withstand temperatures up to 149 °C (300.2 °F). 94V-2 flammability rating.



CAT. NO.	CERTIFICATION	MAX. WIRE/ CABLE SIZE	MAX. BUNDLE DIA.	MIN. TENSILE STRENGTH	MTG. HOLE SIZE REQ. (IN.)	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
750-P	UL/CSA	7"	1.750	50 Lbs.	—	7.500	0.180	100	5,000
1150-P	UL/CSA	11"	3.000	50 Lbs.	—	11.100	0.180	100	5,000
1450-P	UL/CSA	14"	4.000	50 Lbs.	—	14.200	0.180	100	5,000
640-PM	UL Recognized	6"	1.59	40 Lbs.	3/16	6.125	0.139	100	1,000



CABLE TIES

Tefzel & Marker Cable Ties

TFZ, -ID Series

FEATURES

Tefzel Cable Ties (TFZ)

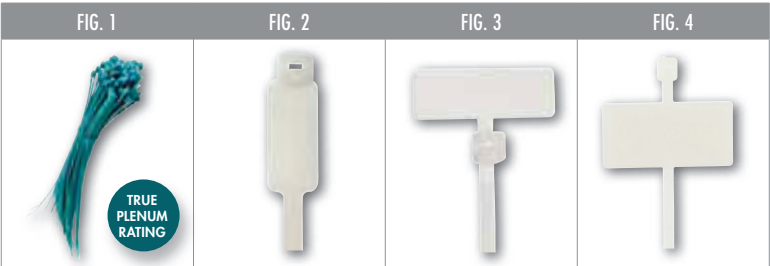
- Suitable for extreme environments, no toxic smoke.
- Rated for air handling spaces and chemical, weather and radiation resistant.
- Ideal for high temperature applications, up to 150 °C (302 °F) continuous operating temperature.
- Aqua blue in color.

MARKER CABLE TIES (-ID)

- Manufactured from natural colored Nylon 66, with an identification area provided (see STYLE).

SPECIFICATIONS

- UL 94V-0 approved.
- True Plenum Rating (TFZ).
- Temperature Rating (TFZ): 18.3 °C to 150 °C (65 °F to 302 °F). Melting point 271.1 °C (520 °F).
- TEFZEL (True Plenum Rating): Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.
- UL62275 Listed.



CAT. NO.	CERTIFICATION	FIG. NO.	STYLE	MAX. WIRE/CABLE SIZE	MAX. BUNDLE DIA.	MIN. TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
TFZ850	UL Recognized	1	—	8"	1.750	50 Lbs.	7.500	0.190	100	1,000
TFZ1150	UL Recognized	1	—	11"	3.00	50 Lbs.	11.500	0.190	100	1,000
418-ID	UL	2	Vertical	4"	0.75	18 Lbs.	4.000	0.100	100	1,000
418F-ID	UL	3	Flag	4"	0.75	18 Lbs.	4.000	0.100	100	1,000
418H-ID	UL	4	Horizontal	4"	0.75	18 Lbs.	4.000	0.100	100	1,000
750-ID	UL	2	Vertical	7"	2	50 Lbs.	7.800	0.183	100	1,000
818H-ID	UL	4	Horizontal	8"	2	18 Lbs.	8.000	0.100	100	1,000

CABLE TIES



CABLE TIES

Releasable & Stainless Steel Ties

-R, SS Series

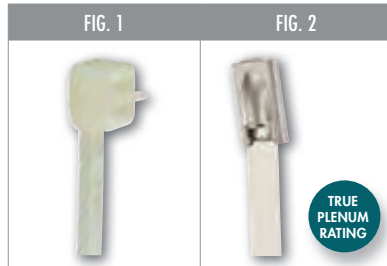
FEATURES

Releasable (-R)

- Releasable ties are manufactured from either natural Nylon 66 or Weather Resistant Nylon 66, these ties can be easily released and re-used.

Stainless Steel Cable Ties (SS)

- Made of Grade 304 stainless steel and are ideally suited for hazardous environments.
- Roller-ball design that is self locking, fast and easy to install.
- Smooth edges will not damage wires and it can be installed by hand or with a tool.
- Available with a non-toxic, halogen-free polyester coating in a wide choice of colors.
- Available in Grade 316, for applications that require extremely high corrosion resistance. To order 316SS material, add suffix "-316" to part number.



CAT. NO.	FIG. NO.	MAX. WIRE/CABLE SIZE	MAX. BUNDLE DIA.	MIN. TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
850-R	1	8"	2.000	50 Lbs.	8.00	0.210	100	1,000
SS8100	2	8"	1.970	100 Lbs.	8.000	0.181	100	500
SS14100	2	14"	3.940	100 Lbs.	14.000	0.181	100	500
SS14250	2	20"	3.940	250 Lbs.	14.000	0.311	100	500
SS20100	2	20"	5.900	100 Lbs.	20.5	0.181	100	500
SS20250	2	20"	5.900	250 Lbs.	20.5	0.311	100	500
SS26250	2	26"	7.870	250 Lbs.	26.5	0.311	100	500

SPECIFICATIONS

- UL Recognized.
- Temperature Rating (-R):** -40 °C to 85 °C (-40 °F to 185 °F).
- Temperature Rating (SS):** -80 °C to 538 °C (-62.2 °F to 281.1 °F).
- Stainless Steel Ties (True Plenum Rating):** Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.



CABLE TIES

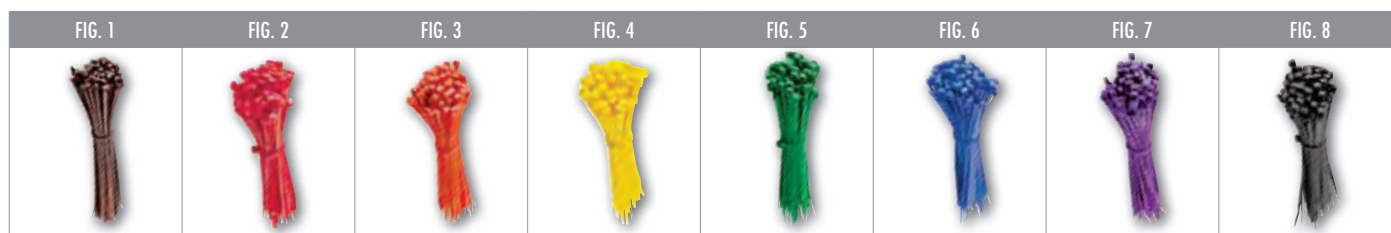
Standard Color Ties

SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- Temperature Rating: Min., -40°F to Max., 185°F (-40°C to 85°C).
- Type 21 AH-2: "Suitable for use in air-handling spaces (Plenums)".

FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



CAT. NO.	FIG. NO.	COLOR	MAX. WIRE/CABLE SIZE (L)	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
530-1	1	Brown	5"	1.300	30 Lbs.	5.600	0.140	100	5,000
530-2	2	Red	5"	1.300	30 Lbs.	5.600	0.140	100	5,000
530-3	3	Orange	5"	1.300	30 Lbs.	5.600	0.140	100	5,000
530-4	4	Yellow	5"	1.250	30 Lbs.	5.600	0.130	100	5,000
530-5	5	Green	5"	1.300	30 Lbs.	5.600	0.140	100	5,000
530-6	6	Blue	5"	1.300	30 Lbs.	5.600	0.140	100	5,000
530-8	8	Gray	5"	1.300	30 Lbs.	5.600	0.140	100	5,000
750-2	2	Red	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-3	3	Orange	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-4	4	Yellow	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-5	5	Green	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-6	6	Blue	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-7	7	Purple	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-8	8	Gray	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
840-1	1	Brown	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-2	2	Red	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-3	3	Orange	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-4	4	Yellow	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-5	5	Green	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-6	6	Blue	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-7	7	Purple	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
840-8	8	Gray	8"	2.060	40 Lbs.	8.500	0.140	100	3,000
1150-2	2	Red	11"	3.000	50 Lbs.	11.100	0.187	100	2,000
1450-2	2	Red	14"	4.000	50 Lbs.	14.100	0.187	100	2,000
1450-3	3	Orange	14"	4.000	50 Lbs.	14.100	0.187	100	2,000
1450-4	4	Yellow	14"	4.070	50 Lbs.	14.000	0.189	100	2,000
1450-5	5	Green	14"	4.000	50 Lbs.	14.100	0.187	100	2,000

CABLE TIES

Standard Fluorescent Ties

FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".



CAT. NO.	FIG. NO.	COLOR (FLOURESCENT)	MAX. WIRE/CABLE SIZE	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
750-16	1	Orange	7"	1.750	50 Lbs.	7.500	0.187	100	3,000
750-18	2	Green	7"	1.810	50 Lbs.	7.500	0.189	100	3,000
750-20	3	Blue	7"	1.810	50 lbs.	7.500	0.189	100	3,000
840-11	4	Pink	8"	2.000	40 Lbs.	8.500	0.130	100	3,000
840-16	1	Orange	8"	2.000	40 Lbs.	8.500	0.130	100	3,000
840-17	5	Yellow	8"	2.060	40 Lbs.	8.000	0.140	100	3,000
840-18	2	Green	8"	2.000	40 Lbs.	8.500	0.130	100	3,000
840-20	3	Blue	8"	2.000	40 Lbs.	8.500	0.130	100	3,000
1150-11	4	Pink	11"	3.000	50 Lbs.	11.100	0.187	100	2,000
1150-16	1	Orange	11"	3.000	50 Lbs.	11.100	0.187	100	2,000
1150-17	5	Yellow	11"	3.000	50 Lbs.	11.100	0.187	100	2,000
1150-18	2	Green	11"	3.000	50 Lbs.	11.100	0.187	100	2,000
1150-20	3	Blue	11"	3.000	50 Lbs.	11.100	0.187	100	2,000



CABLE TIES

Cable Tie Canister Packs

CTP Series

FEATURES

- Four sizes of canister packs include popular assortments of standard and colored cable ties.
- Provided in an air-tight canister to prevent drying, extending life.

SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".



CAT. NO.	FIG. NO.	COLOR	CONTENTS	QTY.	BUNDLE DIAL	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
CTP-300	1	Natural	418	100	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	1	Red	418-2	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	1	Yellow	418-4	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	1	Green	418-5	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	1	Blue	418-6	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	1	Natural	840	50	2 1/8	2.125	40 Lbs.	8.000	0.140	1	12
	1	Red	840-2	25	2 1/8	2.125	40 Lbs.	8.000	0.140	1	12
	1	Blue	840-6	25	2 1/8	2.125	40 Lbs.	8.000	0.140	1	12
CTP-650	2	Natural	418	200	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	2	Red	418-2	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	2	Yellow	418-4	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	2	Green	418-5	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	2	Blue	418-6	25	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	2	Natural	840	300	2 1/8	2.125	40 Lbs.	8.000	0.140	1	12
	2	Natural	1150	50	3 1/8	3.125	50 Lbs.	11.000	0.187	1	12
	2	Natural	1150	50	3 1/8	3.125	50 Lbs.	11.000	0.187	1	12
CTP-650N	3	Natural	418	300	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	3	Natural	840	300	2 1/8	2.125	40 Lbs.	8.000	0.140	1	12
	3	Natural	1150	50	3 1/8	3.125	50 Lbs.	11.000	0.187	1	12
CTP-650B	4	UV Black	4180	300	7/8	0.875	18 Lbs.	4.000	0.100	1	12
	4	UV Black	8400	300	2 1/8	2.125	40 Lbs.	8.000	0.140	1	12
	4	UV Black	11500	50	3 1/8	3.125	50 Lbs.	11.000	0.187	1	12

CABLE TIES

Natural & Weather Resistant Mountable Ties

-MH Series

FEATURES

- Standard mountable cable ties are manufactured from natural Nylon 66 and come complete with a mounting hole.
- Black weather mountable cable ties are also screw mounted, are manufactured from Weather Resistant Nylon 66 and suitable for outdoor use.



CAT. NO.	COLOR	MAX. WIRE/CABLE SIZE	MAX BUNDLE DIAMETER	TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
530MH	Natural	5"	1.500	30 Lbs.	6.000	0.145	100	1,000
750MH	Natural	7"	2.250	50 Lbs.	8.000	0.165	100	1,000
1150MH	Natural	11"	3.250	50 Lbs.	11.750	0.188	100	1,000
1450MH	Natural	14"	4.000	50 Lbs.	14.500	0.188	100	500
14120MH	Natural	14"	4.750	120 Lbs.	15.500	0.310	100	500
5300MH	UV Black	5"	1.500	30 Lbs.	6.000	0.145	100	1,000
7500MH	UV Black	7"	2.000	50 Lbs.	8.000	0.165	100	1,000
11500MH	UV Black	11"	3.250	50 Lbs.	11.750	0.188	100	1,000
14500MH	UV Black	14"	4.000	50 Lbs.	14.500	0.188	100	500
141200MH	UV Black	14"	4.750	120 Lbs.	15.500	0.310	100	500



SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".



CABLE TIES

Velcro Ties

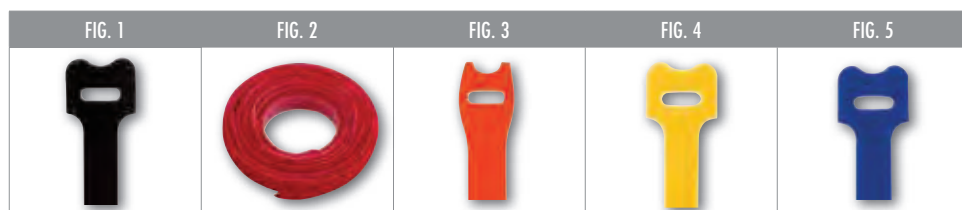
V Series

SPECIFICATIONS

- UL Recognized.

FEATURES

- Unique back-to-back fastening system: a self-gripping, double-sided strap that is easy to use and cost effective.
- Molded high performance polyethylene hook fastener laminated on to a non-woven polyester loop.
- Low peel strength allows for easy entry or removal by the user yet the average shear strength is 3.0 PSI, which increases substantially with each circular rotation.
- Will not over-cinch delicate cable and fiber optics.
- For use with cord and cable management, wire harnesses, inventory control, fibre optics, packaging, in-plant maintenance, etc.
- Allow for a minimum 2" overlap when installing.
- Available in five colors.



CAT. NO.	FIG. NO.	COLOR	MAX. WIRE/CABLE SIZE	MAX. BUNDLE DIAMETER	LENGTH (IN.)	WIDTH (IN.)	PCS. PER. PKG.	PKG. PER. CTN.
V850	1	Black	8"	1.750	8"	0.500	10	25
V850-2	2	Red	8"	1.750	8"	0.500	10	25
V850-3	3	Orange	8"	1.750	8"	0.500	10	25
V850-4	4	Yellow	8"	1.750	8"	0.500	10	25
V850-6	5	Blue	8"	1.750	8"	0.500	10	25
V1250	1	Black	12"	3.000	12"	0.500	10	20
V1250-2	2	Red	12"	3.000	12"	0.500	10	20
V1250-4	4	Yellow	12"	3.000	12"	0.500	10	20
V1250-6	5	Blue	12"	3.000	12"	0.500	10	20
V875	1	Black	80"	Perforated Every 8"	80"	0.75	1	10
V1275	1	Black	10'	Perforated Every 12"	10'	0.75	1	10
V180*	1	Black	15'	Roll	15'	0.75	1	10
V900*	1	Black	75'	Roll	75'	0.75	1	3
V7200*	1	Black	600'	Roll	600'	0.75	1	1

*Rolls of Velcro tape can be cut to desired length.

CABLE TIES

Cable Ties with Stainless Steel Barb

-SB Series



SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

FEATURES

- Natural and UV resistant black, nylon cable ties have stainless steel barb; barb is at 45° pitch with 60° cutting angle, setting strap to desired position to suit all diameters in range.
- Flexible and resistant at low temperatures and humidity-free environments.
- Cold and fastening resistances are higher than normal cable tie tolerances.



CAT. NO.	COLOR	MAX. WIRE/CABLE SIZE	MAX. BUNDLE DIA.	MIN. TENSILE STRENGTH	LENGTH (IN.)	WIDTH (IN.)	STD. PKG. QTY.
418-SB	Natural	4"	0.944	18 Lbs.	4.000	0.100	100
540-SB	Natural	5"	1.417	40 Lbs.	5.500	0.137	100
750-SB	Natural	7"	2.007	50 Lbs.	7.322	0.177	100
818-SB	Natural	8"	2.165	18 Lbs.	7.874	0.100	100
840-SB	Natural	8"	2.165	40 Lbs.	7.874	0.137	100
1140-SB	Natural	11"	3.149	40 Lbs.	11.023	0.137	100
1150-SB	Natural	11"	3.149	50 Lbs.	11.023	0.177	100
1450-SB	Natural	14"	3.976	50 Lbs.	14.173	0.177	100
14120-SB	Natural	14"	3.976	120 Lbs.	14.173	0.295	50
4180-SB	UV Black	4"	0.944	18 Lbs.	4.000	0.100	100
5400-SB	UV Black	5"	1.417	40 Lbs.	5.500	0.137	100
7500-SB	UV Black	7"	2.007	50 Lbs.	7.322	0.177	100
8180-SB	UV Black	8"	2.165	18 Lbs.	7.874	0.100	100
8400-SB	UV Black	8"	2.165	40 Lbs.	7.874	0.137	100
11400-SB	UV Black	11"	3.149	40 Lbs.	11.023	0.137	100
11500-SB	UV Black	11"	3.149	50 Lbs.	11.023	0.177	100
14500-SB	UV Black	14"	3.976	50 Lbs.	14.173	0.177	100
141200-SB	UV Black	14"	3.976	120 Lbs.	14.173	0.295	50

CABLE TIES

Cable Tie Installation Tools

TRT, SSCT Series

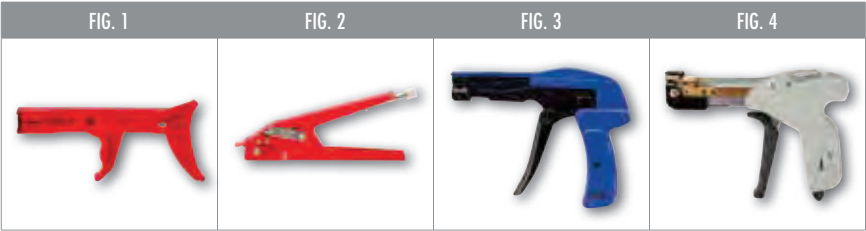
FEATURES

TRT

- Ergonomic, durable cable tie tools suitable for tensile strengths from 18lb through 250lb extra heavy lashing ties.

SSCT

- Stainless Steel manual tools are ergonomic, durable cable tie tools suitable for 100lb and 250lb tensile strength stainless steel ties.
- SSCT-5 has preset tension adjustment control, allowing for uniform tension setting and automatic cutting on each bundle.



CAT. NO.	FIG. NO.	TOOL DUTY	APPLICATION	MIN. TENSILE STRENGTH	STD. CTN. QTY.
TRT-200	1	Durable plastic.	Miniature, intermediate, and standard duty cable ties	18-50 Lbs.	1
TRT-400	2	Extra Heavy Duty, all-metal.	Miniature up to extra Heavy Duty cable ties	18-250 Lbs.	1
TRT-500	3	Deluxe cable tie tool.	Miniature up to Standard Duty cable ties	18-50 Lbs.	1
SSCT-5	4	Stainless Steel cable tie tool.	100lb and 250lb Stainless Steel cable ties	100-250 Lbs.	1

CABLE TIES

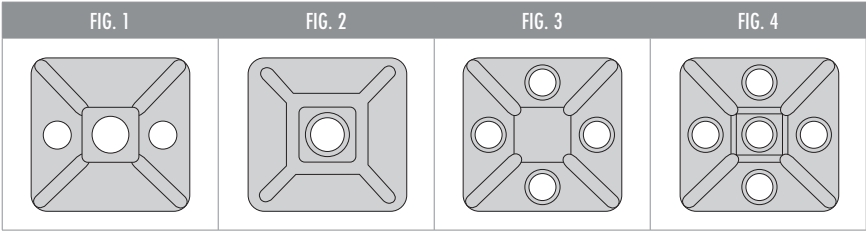
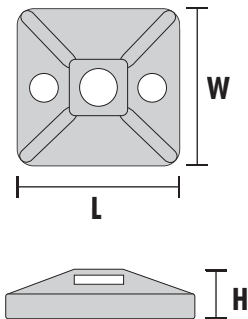
CABLE TIES

Cable Ties Adhesive Mounts

FTH Series

- SPECIFICATIONS
- Temperature Rating: -80 °C to 538 °C (-112 °F to 1000.4 °F).

- FEATURES
- Mounts are used to route and fasten cable-tied bundles to flat surfaces.
 - Cable ties may be inserted from any of four directions, eliminating orientation time.
 - The top of the mount has a cradle design which allows the bundle to fit snugly and a mounting hole for additional support, where required.



CAT. NO.	FIG. NO.	COLOR	SLOT WIDTH	LENGTH (IN.)	WIDTH (IN.)	HEIGHT
FTH5A	1	Natural	0.140	0.750	0.750	0.140
FTH5A-B	1	Black	0.140	0.750	0.750	0.140
FTH7A	2	Natural	0.203	1.000	1.000	0.160
FTH7A-B	2	Black	0.203	1.000	1.000	0.160
FTH15A	3	Natural	0.394	1.500	1.500	0.300
FTH15A-B	3	Black	0.394	1.500	1.500	0.300
FTH20A	4	Natural	0.500	2.000	2.000	0.500
FTH20A-B	4	Black	0.500	2.000	2.000	0.500

CABLE TIES
Push Mounts
SM Series

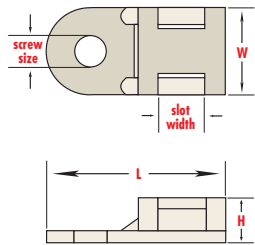
SPECIFICATIONS

- Temperature Rating: -80 °C to 538 °C (-112 °F to 1000.4 °F).

FEATURES

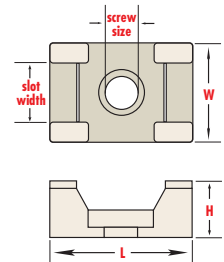
- Manufactured using UL approved Nylon 66, 94V-2.
- Saddle design provides maximum stability to wire bundles.

Figure 1

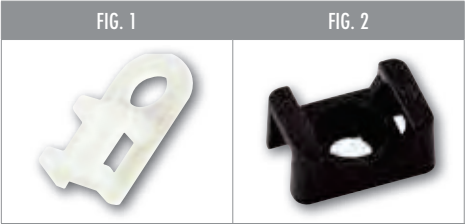


SM-0, OL

Figure 2



SM-1, 2, 3



CAT. NO.	FIG. NO.	COLOR	SCREW SIZE	SLOT WIDTH	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
SM-0	1	Natural	0.133	0.200	0.750	0.370	0.200	100	1,000
SM-OL	1	Natural	0.204	0.200	0.750	0.370	0.200	100	1,000
SM-1	2	Natural	0.120	0.280	0.590	0.390	0.280	100	1,000
SM-2	2	Natural	0.130	0.160	0.500	0.280	0.230	100	1,000
SM-3	2	Natural	0.236	0.350	0.900	0.630	0.350	100	1,000
SM-1-B	2	Black	0.120	0.280	0.590	0.390	0.280	100	1,000
SM-2-B	2	Black	0.130	0.160	0.500	0.280	0.230	100	1,000
SM-3-B	2	Black	0.236	0.350	0.900	0.630	0.350	100	1,000

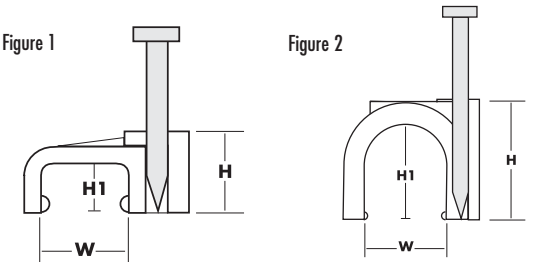
CABLE TIES

Polyethylene Nail Clips

PNC Series

FEATURES

- Made from impact resistant, non-corrosive polyethylene.
- Supplied with corrosion resistant, hardened steel nails already inserted for ease-of-use.
- The smooth polyethylene surface prevents damage to the insulation.



CAT. NO.	FIG. NO.	COLOR	WIDTH	HEIGHT (IN.)	HEIGHT 1 (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
PNC-217W	1	White	0.217	0.216	0.122	100	1,000
PNC-335W	1	White	0.335	0.315	0.205	100	1,000
PNC-157G	2	Grey	0.157	0.260	0.165	100	1,000
PNC-197G	2	Grey	0.197	0.299	0.206	100	1,000
PNC-236G	2	Grey	0.236	0.354	0.260	100	1,000
PNC-315G	2	Grey	0.315	0.453	0.339	100	1,000
PNC-391G	2	Grey	0.391	0.528	0.413	100	1,000

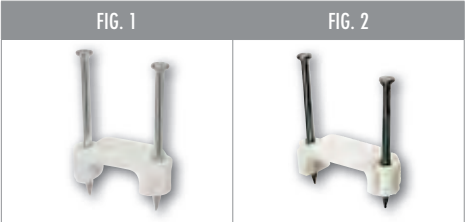
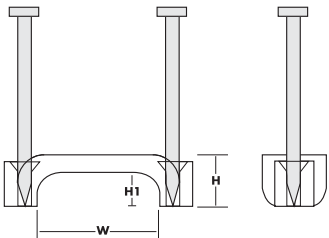


CABLE TIES
Nail-On Plastic Staples for Romex
PNC Series

SPECIFICATIONS
• RoHS Compliant.

FEATURES

- PNC-492W is suitable for use with 14/2, 14/3 or 12/2.
- PNC-736W is suitable for use with 12/3, 10/2 or 10/3.



CAT. NO.	FIG. NO.	COLOR	WIDTH	HEIGHT (IN.)	HEIGHT 1 (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
PNC-492W	1	White	0.492	0.315	0.209	100	5,000
PNC-736W	2	White	0.736	0.315	0.209	100	5,000

CABLE TIES

Adjustable Cable Clamps & Masonry Push Mount

ADJCC, MPM Series

FEATURES

Adjustable Cable Clamps (ADJCC)

- Clamps are adjustable to accommodate various sizes of cables.
- Easy to install and open for unlimited usage. Manufactured using UL approved Nylon 66, 94V-2 and have an adhesive tape backing.

Masonry Push Mount (MPM)

- Manufactured using UL approved Nylon 66, 94V-2. Installs in masonry surfaces.
- Simply pre-drill a mounting hole, hammer the push mount in, then feed a cable tie through the head.

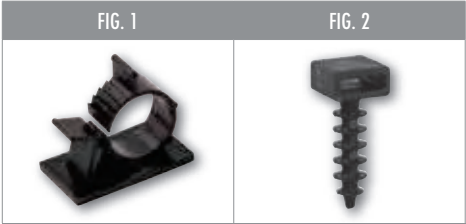


Figure 1

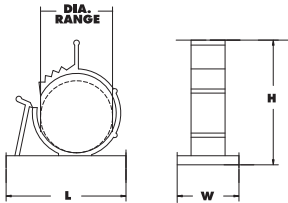
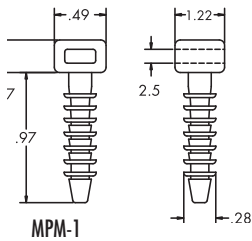


Figure 2



CAT. NO.	FIG. NO.	CABLE TIE WIDTH ACCEPTABLE	THREAD LENGTH	OVERALL WIDTH	THREAD WIDTH	HEAD SIZE L X W	DIA. RANGE	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
ADJCC-1	1	—	—	—	—	—	0.31 to 0.40	1.000	0.750	0.870	100	1,000
ADJCC-3	1	—	—	—	—	—	0.50 to 0.60	1.500	0.750	1.250	100	1,000
ADJCC-5	1	—	—	—	—	—	0.87 to 1.00	1.650	1.000	1.750	100	1,000
MPM-1	2	0.39	0.97	1.22	0.28	0.49 x 0.47	—	—	—	—	100	500

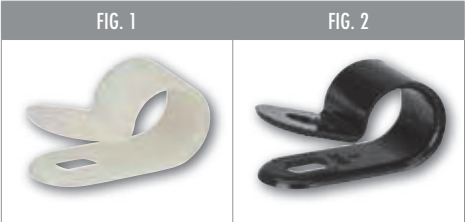
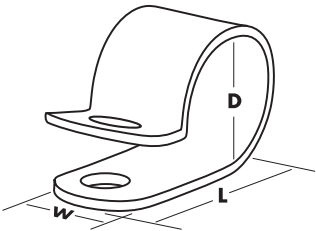


CABLE TIES
Standard Duty Nylon Cable Clamps
NC Series

SPECIFICATIONS
• RoHS Compliant.

FEATURES

- Standard duty clamps are similar to heavy duty nylon cable clamps, except narrower in width.
- Made from Nylon 66. 94 V-2 rated.
- Complete with 0.180" mounting hole.



CAT. NO.	FIG. NO.	COLOR	DIAMETER	LENGHT (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
NC-125	1	Natural	0.125	0.780	0.378	100	1,200
NC-125-0	2	Black	0.125	0.780	0.378	100	1,200
NC-187	1	Natural	0.187	0.780	0.378	100	1,200
NC-187-0	2	Black	0.187	0.780	0.378	100	1,200
NC-250	1	Natural	0.250	0.790	0.394	100	1,200
NC-250-0	2	Black	0.250	0.790	0.394	100	1,200
NC-312	1	Natural	0.312	0.860	0.394	100	1,200
NC-312-0	2	Black	0.312	0.860	0.394	100	1,200
NC-375	1	Natural	0.375	0.940	0.375	100	1,200
NC-375-0	2	Black	0.375	0.940	0.375	100	1,200
NC-500	1	Natural	0.500	1.220	0.375	100	1,200
NC-500-0	2	Black	0.500	1.220	0.375	100	1,200

CABLE TIES

CABLE TIES

Heavy Duty Nylon Cable Clamps

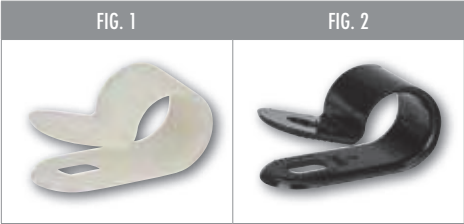
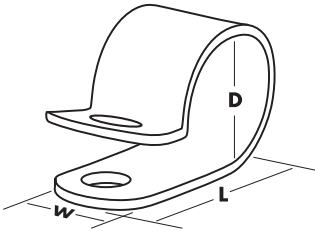
NCH Series



- SPECIFICATIONS**
- RoHS Compliant.

FEATURES

- Made from Nylon 66. 94V-2 rated.
- Designed with wide arc to hold cables, tubes, etc.
- Fully radiused interior edges to protect cable insulation.
- Non-conductive, non-corrosive, resistant to fuels, lubricants and most chemicals.
- 0.180" mounting hole.



CAT. NO.	FIG. NO.	COLOR	DIAMETER	LENGHT (IN.)	WIDTH (IN.)	STD. PKG. QTY.	STD. CTN. QTY.
NCH-250	1	Natural	0.250	0.790	0.500	100	1,200
NCH-250-0	2	Black	0.250	0.790	0.500	100	1,200
NCH-312	1	Natural	0.312	0.860	0.500	100	1,200
NCH-312-0	2	Black	0.312	0.860	0.500	100	1,200
NCH-375	1	Natural	0.375	0.940	0.472	100	1,200
NCH-375-0	2	Black	0.375	0.940	0.472	100	1,200
NCH-437	1	Natural	0.437	1.080	0.500	100	1,200
NCH-500	1	Natural	0.500	1.220	0.472	100	1,200
NCH-500-0	2	Black	0.500	1.220	0.472	100	1,200
NCH-562	1	Natural	0.562	1.280	0.500	100	1,200
NCH-625	1	Natural	0.625	1.350	0.472	100	1,200
NCH-750	1	Natural	0.750	1.380	0.472	100	1,200
NCH-1000	1	Natural	1.000	1.690	0.472	100	1,200



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HARDWARE, TOOLS & TESTERS



HARDWARE, TOOLS & TESTERS
Hydraulic Compression Tool
Dieless & 12 Ton Hydraulic Crimping Tool
Tools



FEATURES

Dieless Hydraulic Crimping Tool

- N121D Dieless indent style crimping head does not require interchangeable crimping dies.
- Flip-open Crimping head rotates 350 degrees to get into tight locations.
- Two-speed pump provides rapid crimping cycle time.
- Lightweight and strong fiberglass handles.
- Comes with a molded carrying case.
- Copper: 4AWG-1000kcmil (MCM).
- Aluminum: 6AWG-1000kcmil (MCM).
- 26", 15 lbs.

U-Die Type Hydraulic Crimping Tool

- N1240 with 1.65 in (42mm) opening.
- Accepts KC12, KA12 and KD12 crimping dies as well as industry "U" style dies.
- New head design results in lower weight and improved durability – tested to 50,000 crimp cycles.
- Two-speed pump to reduce cycle time.
- Ram automatically retracts when crimp cycle is complete.
- Crimping heads rotate 350 degrees.
- Smaller and lighter than most tools.
- Includes carrying case.
- N1240 - 8 AWG to 750 kcmil copper and aluminum color-coded lugs and splices.
- 21 1/2", 13-2 lbs.

SPECIFICATIONS

- UL and cUL Listed*.

CROSS-REFERENCE GUIDE

- NSI: N1240
- GREENLEE: KC12, KD12, U-Style
- BURNDY: U
- THOMAS & BETTS: 15500 Series
- ILSCO: ILD
- HUSKIE: HT41
- PANDUIT: CD-920
- BLACKBURN: B,H
- PENN-UNION: T

NOTE

*UL and cUL classified with NSI Industries, LLC, Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors. The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union® and Tyco®.



CAT. NO.	FIG. NO.	DESCRIPTION	CRIMPING FORCE	LENGTH (IN)	WEIGHT (LBS)	STD. CTN. QTY.
N121D*	1	Dieless Hydraulic Crimping Tool	—	26	15	1
N1240*	2	12 Ton hydraulic Crimping Tool, 1.65 in. opening.	24,000 (12 Ton)	21-1/2	12.2	1

HARDWARE, TOOLS & TESTERS

Crimping Dies & Carrying Case

Tools

KA, KC Series



NOTE

*UL and cUL classified with Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors. The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union® and Tyco®.

FEATURES

- KA, KC Series dies for use in NSi N1240 Hydraulic Compression Tool and industry standard tools using the "U" type dies.



FOR USE WITH ALUMINUM CONDUCTORS.				FOR USE WITH COPPER CONDUCTORS.				
CAT. NO.	FIG. NO.	DESCRIPTION	ALUMINUM COLOR CODE	CAT. NO.	FIG. NO.	DESCRIPTION	COPPER COLOR CODE	STD. CTN. QTY.
KA12-8*	1	8 AWG, Aluminum	BLUE	KC12-8*	2	8 AWG, Copper	RED	1
KA12-6*	1	6 AWG, Aluminum	GREY	KC12-6*	2	6 AWG, Copper	BLUE	1
KA12-4*	1	4 AWG, Aluminum	GREEN	KC12-4*	2	4 AWG, Copper	GREY	1
KA12-2*	1	2 AWG, Aluminum	PINK	KC12-2*	2	2 AWG, Copper	BROWN	1
KA12-1*	1	1 AWG, Aluminum	GOLD	KC12-1*	2	1 AWG, Copper	GREEN	1
KA12-1/0*	1	1/0 AWG, Aluminum	TAN	KC12-1/0*	2	1/0 AWG, Copper	PINK	1
KA12-2/0*	1	2/0 AWG, Aluminum	OLIVE	KC12-2/0*	2	2/0 AWG, Copper	BLACK	1
KA12-3/0*	1	3/0 AWG, Aluminum	RUBY	KC12-3/0*	2	3/0 AWG, Copper	ORANGE	1
KA12-4/0*	1	4/0 AWG, Aluminum	WHITE	KC12-4/0*	2	4/0 AWG, Copper	PURPLE	1
KA12-250*	1	250 MCM, Aluminum	RED	KC12-250*	2	250 MCM, Copper	YELLOW	1
KA12-300*	1	300 MCM, Aluminum	BLUE	KC12-300*	2	300 MCM, Copper	WHITE	1
KA12-350*	1	350 MCM, Aluminum	BROWN	KC12-350*	2	350 MCM, Copper	RED	1
KA12-400*	1	400 MCM, Aluminum	GREEN	KC12-400*	2	400 MCM, Copper	BLUE	1
KA12-500*	1	500 MCM, Aluminum	PINK	KC12-500*	2	500 MCM, Copper	BROWN	1
KA12-600*	1	600 MCM, Aluminum	BLACK	KC12-600*	2	600 MCM, Copper	GREEN	1
KA12-750*	1	750 MCM, Aluminum	YELLOW	KC12-750*	2	750 MCM, Copper	BLACK	1
01082	3	Crimping die carrying case, 15 pairs	—	—	—	—	—	1

HARDWARE, TOOLS & TESTERS
Hydraulic Die & Battery-Operated Die Type Crimping Tools



FEATURES

Hydraulic Dies

- 12-Ton Compression Tool for U-Type Dies.
- Delivers 12 tons of hydraulic force.
- 1/2" jaw opening for large conductors and taps.
- Automatic two-speed pump action for rapid ram advancement.
- Fast ram release with twist of handle.
- 180° head rotation.
- Accepts all standard U-type dies.
- Not UL Listed/CSA.

Power 750 (Battery Operated)

- 14.6 tons, 1.65" jaw opening for U-type dies.
- Powerful 14.4 Volt battery crimper.
- High power Ni-Cad battery.
- 180° head rotation.
- Reinforced molded nylon body.
- Pressure release button.
- Switch-protected against accidental operation.
- Battery condition display.
- Balanced tool and sculptured body for greater control.
- Ergonomically designed center grip handle.
- 10,000 PSI rated operating pressure.
- Includes steel carrying case, shoulder strap, spare battery and battery charger.
- Accepts all standard U-type dies.
- UL Listed and CSA.

SPECIFICATIONS

Hydraulic Dies

- Not UL Listed/CSA.

Power 750

- UL Listed and CSA.

NOTE

- U-Type Compression Die Chart: See page 158.



CAT. NO.	FIG. NO.	WIRE RANGE AL-CU		LENGTH (IN)
		MAX.	MIN.	
NSI-12	1	750 MCM	8 STR	23
P-750	2	750 MCM	8 STR	16.5

HARDWARE, TOOLS & TESTERS

U-Type Compression Dies

Tools

CD Series

FEATURES

- For use in NSi N12 and N1240 Compression Tools.

CAT. NO.	DIE INDEX NO.	NSI TOOL DIE INDEX	T&B TOOL DIE INDEX	ILSCO TOOL DIE INDEX	HUSKIE TOOL DIE INDEX	BURNDY TOOL DIE INDEX	ALUMINUM COLOR CODE	COPPER LUGS AND SPLICES	WIRE SIZE ALUM. LUGS AND SPLICES	BI-METALLIC PIN TERMINALS
CD2	7/374	AT	24	ILD-2	AT	7	BLUE	6	8	—
CD3	8/346	AU	29	ILD-3	AU	8	GREY	4	6	—
CD4	10	AW	33	ILD-4	AW	10	BROWN	2	—	—
CD5A	375	GM	3	ILD-4	GM	375	GREEN	1	4	—
CD6A	348	GF	42H	ILD-5	GF	348	PINK	1/0	2	—
CD7	13	AZ	45	ILD-6	AZ	13	BLACK	2/0	—	—
CD9	296	EX	50	ILD-8	EX	296	TAN	—	1/0	—
CD10	14	BA	50	ILD-9	BA	14	ORANGE	3/0	—	6, 4, 2, 1
CD11	297	EY	54H	—	EY	297	OLIVE	—	2/0	—
CD12	15	BC	54H	ILD-10	BC	15	PURPLE	4/0	—	—
CD13	467	GW	60	—	GW	467	RUBY	—	3/0	—
CD14	16	BE	62	ILD-11	BE	16	YELLOW	250 MCM	—	—
CD15	17	BF	66	ILD-12	BF	17	WHITE	300 MCM	—	—
CD15A	298	EZ	66	ILD-12	EZ	298	WHITE	300 MCM	4/0	—
CD16	18	BJ	71H	ILD-13	BJ	18	RED	350 MCM	—	—
CD16A	324	FW	71H	ILD-13	FW	324	RED	350 MCM	250 MCM	1/0, 2/0, 3/0, 4/0
CD17	19	BK	76	ILD-14	BK	19	BLUE	400 MCM	—	—
CD17A	470	BK	76	ILD-14	BK	470	BLUE	400 MCM	300 MCM	—
CD18	20	BL	87H	ILD-15	BL	20	BROWN	500 MCM	—	—
CD18A	299	FA	87H	—	FA	299	BROWN	500 MCM	350 MCM	250, 300, 350, MCM
CD19	22	HH	94H	ILD-16	HH	472	GREEN	600 MCM	—	—
CD19A	472	BM	94H	ILD-16	BM	22	GREEN	600 MCM	400 MCM	—
CD20	300	FB	99H	ILD-16A	FB	300	PINK	—	500 MCM	400, 500 MCM
CD21	24	BP	106H	ILD-17	BP	24	BLACK	750 MCM	—	—
CD21A	743	BP	106H	ILD-17	BP	473	BLACK	750 MCM	600 MCM	—
CD23	936	LJ	115H	—	LJ	936	YELLOW	—	750 MCM	600, 750 MCM

HARDWARE, TOOLS & TESTERS

Mechanical Crimpers & Tools, Ratchet-Drive Crimpers

Manual Crimp Tools

FEATURES

1. MECHANICAL SINGLE-INDENT LUG CRIMPERS (M-250)

- Manually operated single-indent compressor tool.
- Wire Range: CU-250 MCM to 8 AWG and AL-4/0 AWG to 8 AWG.
- Requires no dies.

2. MECHANICAL SINGLE-INDENT LUG CRIMPERS (M-500)

- Extendable handle design provides increased leverage and allows you to crimp connectors up to 500 MCM.
- Requires no dies.

3. MECHANICAL TOOL (OD-58, OD-581)

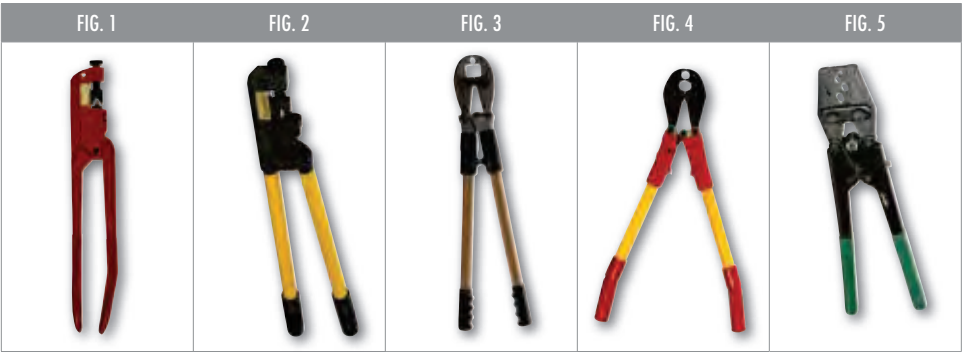
- With 5/8" nose die.
- For copper and aluminum.

4. MECHANICAL TOOL (OD-59)

- With 5/8" nose die.
- For copper and aluminum.

5. RACHET-DRIVE CRIMPERS (RDC1/0)

- For non-insulated terminals from 6 to 1/0 AWG and insulated terminals from 22 to 8 AWG.
- Rugged, compact and lightweight.
- Requires minimum effort due to ratchet action, ensuring an excellent crimp every time.



CAT. NO.	FIG. NO.	DESCRIPTION	INSERT DIES FOR OD581 AND OD59	
			CAT. NO.	DESCRIPTION
M-250	1	Mechanical Crimper Up To 250 MCM	OJB	'O' die for OD581
M-500	2	Mechanical Crimper Up To 500 MCM	DBL	'D' die for OD581
OD58	3	Mechanical Crimper For WR Series/H-tap Connectors	BY37C	840 red for OD581
OD581	3	Mechanical Crimper For WR Series/H-tap Connectors With Fibreglass Handles & 5/8" Nose Die. Output: 4.5 Tons.	U-BG	U-BG die for OD59
OD59	4	Mechanical Crimper For Wr Series/H-Tap Connectors. Fiberglass Handles And 'O' And 'D' Nose Dies. Output: 4.5 Tons.	—	—
RDC1/0	5	Ratchet Drive Crimper — 6-1/0 AWG Uninsulated, 22-8 AWG Insulated	—	—

HARDWARE, TOOLS & TESTERS

Manual & Ratchet-Drive Cable Cutters

Tools
For Copper & Aluminum Cables

FEATURES

Manual Cable Cutters (1-3)

- Rugged, lightweight manual cable cutters available in three sizes to handle all sizes of cable.
- Replacement blades are available for CCM-500 and CCM-1000.

Ratchet-Drive Cable Cutters (4-7)

- Fine quality tools crafted for cutting ease, minimum cable distortion and long life.
- Rugged, compact and lightweight.
- High quality steel blades offer excellent cutting-edge performance.
- Handles are made from fiberglass.
- Replacement blades and handles are available.



CAT. NO.	FIG. NO.	CABLE CAPACITY	FOR USE WITH	MAX. INSUL. DIA.	LENGTH (IN)
CCM-350	1	350 MCM	Copper & Aluminum	1.25	16
CCM-500	2	500 MCM	Copper & Aluminum	1.25	21
CCM-1000	3	1000 MCM	Copper & Aluminum	1.90	32
CCM-500RB	—	Replacement Blades For CCM-500	—	—	—
CCM-1000RB	—	Replacement Blades For CCM-1000	—	—	—
CCR-600	4	600 MCM	Copper & Aluminum	1.20	10
CCR-750	5	500 MCM	Copper & Aluminum	1.40	20
CCR-1000	6	1000 MCM	Copper & Aluminum	2.38	20
CCR-750 RB	7	Replacement Blades For CCR-750	—	—	—

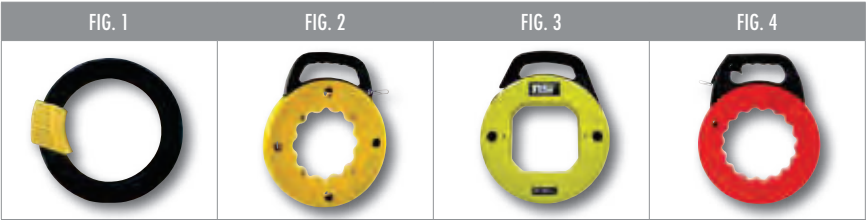
HARDWARE, TOOLS & TESTERS

Steel Fishtapes

Tools
FTS Series

FEATURES

- Extremely flexible and durable flat spring steel.
- Stiffer construction is excellent for long runs.
- Looped end for attaching wires.
- Heavy-duty housing withstands rough conditions.
- High visibility yellow makes fish tape easy to locate.
- Viewing holes to show remaining tape.
- Handle slides through base to reel tape easily.
- 500 lbs. maximum tape strength.



CAT. NO.	FIG. NO.	DESCRIPTION	LENGTH (FT)	END TYPE
FTS25	1	Flat Spring Steel Fishtape	25	Torpedo-Style
FTS50	2	1/8" Steel Fishtape c/w handle	50	Formed hook
FTS100	3	Steel Fishtape, Reel and Winder	100	Formed hook
FTS120	4	1/8" Steel Fishtape c/w handle	120	Formed hook
FTS200	4	1/8" Steel Fishtape c/w handle	200	Formed hook

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HARDWARE, TOOLS & TESTERS

Conduit Benders

Tools
CB, CBH Series

FEATURES

- All NSi conduit benders have cast in-angle indicators with raised bending points of reference to aid the installer.
- The bodies are aluminum die cast which are lightweight yet strong enough for everyday use.
- Handles are tough steel construction and have a black powder coat finish that is textured for better gripping; flared handle corrects overbends.
- Aluminum die cast bender.
- Handles are made of steel.



CAT. NO.	FIG. NO.	DESCRIPTION	TYPE	HANDLE SIZE (IN.)	HANDLE LENGTH (IN.)	STD. CTN. QTY.
CB100	1	For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius	Aluminum Die Cast	—	—	12
CB75	2	For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius	Aluminum Die Cast	—	—	12
CB50	3	For 1/2" EMT, 5 Degree Inside Radius	Aluminum Die Cast	—	—	12
CB50WH	4	For 1/2" EMT, 5 Degree Inside Radius	Aluminum Die Cast With Handles	3/4 x 38	—	12
CB75WH	4	For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius	Aluminum Die Cast With Handles	3/4 x 38	—	12
CB100WH	4	For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius	Aluminum Die Cast With Handles	1" x 44	—	12
CBH75	5	3/4" Diameter, for use with CB50 and CB75	Handles only	3/4	38	12
CBH100	5	1" Diameter, for use with CB100	Handles only	1	44	12

HARDWARE, TOOLS & TESTERS

Precision Wire Strippers & Insulated Miniterm Tool

Tools
TL, NH Series

FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
ADJUSTABLE 10-24 AWG 5" WIRE STRIPPER			
TL-ADJ5	1	Adjustment wheel sets wire stripper for 8 wire gauge sizes from 10 to 24 AWG. Wire cutter (CU/AL). Wire looper. Heat treated spring steel. Cushioned double insulated handle.	1
10-20 AWG 6" WIRE STRIPPER			
TL-WS6	2	Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Spring and lock. Heat treated spring steel. Cushioned double insulated handle.	1
10-20 AWG 8 1/2" 6-FUNCTION ELECTRICIAN'S TOOL			
TL-6-1	3	Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Spring and lock. Heat-treated spring steel. Cushioned double insulated handle.	1
10-22 AWG 9 1/2" 5-FUNCTION ELECTRICIAN'S TOOL			
TL-5-1	4	Seven wire stripping holes: 10, 12, 14, 16, 18, 20, 22 AWG. Wire cutter nose (CU/AL). Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Heat-treated hardened steel. Cushioned double insulated handle.	1
CABLE JACKET RIPPER 4"			
TL-RCR	5	Slits NM jackets on Romex TM cables to allow stripping of internal wires. Wire gauge holes.	1
INSULATED MINITERM TOOL			
NH-1	6	A ratchet-action crimping tool for quality crimping of insulated terminals and connectors, including rings, spades, male plugs, female receptacles and disconnects in 22/18, 16/14 and 12/10 AWG wire sizes.	1
UNINSULATED MINITERM TOOL			
NH-3	7	Crimp tool for insulated miniterms 22-10 AWG wire sizes.	1
NH-4	7	Crimp tool for un-insulated miniterms 22-8 AWG wire sizes.	1

HARDWARE, TOOLS & TESTERS

Electrician's Hand Tools

Tools
TL Series

FEATURES

- The essential hand tools for electrical work.
- Heat-treated forged steel construction with precision ground edges for cutting copper and aluminum.
- Double-insulated cushioned handles.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
DIAGONAL CUTTING PLIERS 6 1/2"			
TL-DC	1	Designed and shaped for wire cutting in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.	1
CABLE CUTTER 8"			
TL-CCIH	2	Designed for high-leverage cutting of cable to 2/0 (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.	1
LONG REACH CUTTER/CRIMPER 8"			
TL-CRP	3	Long reach design for wire cutting and crimping in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.	1
LONG NOSE PLIERS/STRIPPER/CRIMPER 6 1/2"			
TL-LNP	4	For long reach twisting and positioning wires in tight places. Wire cutter (CU/AL). Non-insulated crimping stations. Heat-treated drop-forged steel. Cushioned insulated handles.	1
LINEMAN'S PLIERS 7 1/2"			
TL-LP	5	Designed for high leverage pulling and twisting wires and cables. Threaded wire-gripping nose. Wire cutter (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.	1
ELECTRICIAN'S 1000V SCREWDRIVERS			
TL-ISS	6	Fully insulated (1000 Volt) screwdriver set. Comfort grip handles and fully insulated shafts for full shock protection (1) #2 Phillips head (1) 3/16" slotted tip. Hang holes. Heat treated drop forged steel.	1

HARDWARE, TOOLS & TESTERS
Electrical Multitesters - Analog & Digital

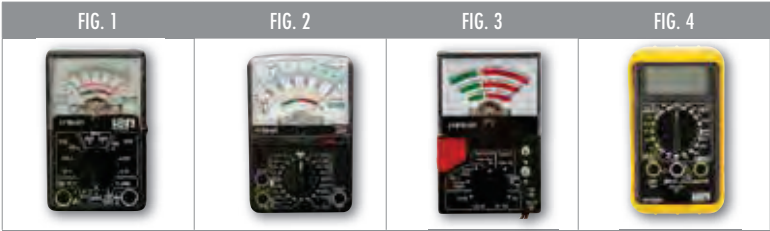
Testers
TES Series



SPECIFICATIONS
• cULus and cCSAus Listed.

FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
ANALOG MULTITESTER 5-FUNCTION 12 RANGE			
TES-MT12	1	Measures AC/DC voltage to 300 Volts. DC amperage to 250 mA. Decibels from -20 to 56dB. 1.5 and 9V Batteries Continuity. Fuse protection. Insulated test leads. Requires (2) AAA batteries.	1
ANALOG MULTITESTER 7-FUNCTION 19 RANGE			
TES-MT19	2	Tests AC/DC voltage to check 10 Meg. Decibels from -8 to +62dB 1.5 and 9V batteries. Continuity with audible buzzer Fuse protection. Insulated test leads. Requires (2) AA batteries.	1
ANALOG BATTERY TESTER			
TES-MTBTL	3	Tests AA; AAA; C; D; C; button cells; Ni-Cad; 3V lithium; 22.5V photo and lantern cells; 6V lantern; 12V, 15V photo cells. Insulated test leads. Exclusive button cell test compartment.	1
DIGITAL MULTITESTER 6-FUNCTION 20 RANGE			
TES-DT18	4	DC current to 200 mA. 1.5 and 9V batteries. Continuity (audible buzzer) Fuse protection. Insulated test leads. Requires 9V battery.	1

HARDWARE, TOOLS & TESTERS
Circuit & Receptacle Testers

Testers
TES Series



SPECIFICATIONS

- cULus Listed.
- cETLus Listed (Intertek).

FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
80-250 VAC TWIN PROBE VOLTAGE TESTER			
TES-111	1	Neon light indicates presence of AC voltage from 80-250 VAC. Double insulated housing and test leads. Pocket clip.	1
120 OR 240 VAC VOLTAGE TESTER			
TES-2	2	Dual neon light indicates presence of AC voltage of either 120 or 240 VAC. Double insulated housing and test leads. Pocket clip.	1
5-50 VAC/DC VOLTAGE TESTER			
TES-LVT	3	Neon light indicates presence of low voltage from 5 to 50 VAC or DC. Double insulated housing and fully insulated test leads with alligator clips. Pocket clip.	1
CONTINUITY/VOLTAGE SCREWDRIVER TESTER			
TES-CT	4	Neon light indicates presence of AC voltage from 12-300 VAC. Neon light also indicates circuit continuity. Double insulated housing. Handy screwdriver / voltage probe. Pocket clip. (2) LR-44 batteries included	1
120-480 VAC/DC HEAVY-DUTY VOLTAGE TESTER			
TES-SOL	5	Solenoid spring activated gauge measures voltage levels from 120 to 480 VAC. Double insulated housing and heavy gauge 48" test leads with housing storage. Lighted polarity indication.	1

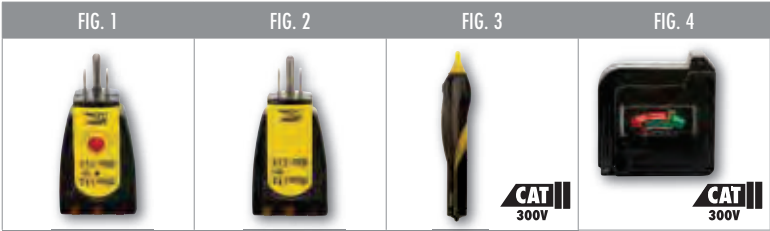
HARDWARE, TOOLS & TESTERS

Circuit & Receptacle Testers

Testers
TES Series

FEATURES

- Hand-held probe testers for measuring household voltage presence without contacting conductors, analyzing circuit wiring and GFCI integrity and quick battery testing.



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
GFCI ELECTRICAL JUNCTION BOX WIRING ANALYZER			
TES-131	1	Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Includes push-button GFCI integrity test. Neon bulb indication.	1
ELECTRICAL JUNCTION BOX WIRING ANALYZER			
TES-122	2	Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Neon bulb indication.	1
90-200 VAC NON-CONTACT VOLTAGE TESTER			
TES-NC	3	Detects household voltages from 90 to 200 VAC without touching conductors. (2) AAA batteries are included. AAA battery test feature included. Double insulated. Pocket clip.	1
POCKET BATTERY TESTER			
TES-BT	4	Checks strength of AA, AAA, C, D, N, 9V and 1.5V Button Cell Batteries. Flip up contact arm fits battery poles.	1

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HARDWARE, TOOLS & TESTERS

Torque Wrenches, Screwdriver & Accessories

Tools
TW Series

FEATURES

Torque Wrenches

- Dual scale, calibrated dual direction.
- Positive lock with spring loaded pull down lock ring.
- Fast, accurate and easy to set.
- Easy-to-read laser marked scales.
- Most feature quick release buttons which provide good socket retention as well as easy socket removal.
- Accuracy: 3% CW, 4% CCW of indicated value, CW from 20% to 100% of full scale.
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

Torque Screwdrivers

- Positive locking pull down adjustment knob.
- Trilobular comfort grip.
- Universal 1/4" hex bit holder with strong rare earth magnet.
- Cam-over torque limiting clutch and slip resistant finish.
- Easy-to-read windown scale and light weight.
- Automatic lock in CCW direction for disassembly.
- Accuracy: 6% of indicated value, CW from 20% to 100% of full scale. Individually serialized with matching certificate of calibration traceable to N.I.S.T.
- Meets or exceeds ASME B107.14-2004



CAT. NO.	FIG. NO.	DESCRIPTION	STD. CTN. QTY.
TW20-150	1	Torque Wrench. Click Type. 20-150 In Lbs. 3/8" Drive Dual Scale.	1
TW100-750	2	Torque Wrench. Click Type. 100-750 In Lbs. 3/8" Drive Dual Scale.	1
TW5-40	3	Torque Screwdriver. Micro Adjustable. 5-40 In Lbs. 1/4" Drive Single Scale.	1
TWHB 3818	4	Hex Bit 3/8" Socket. 1/8" Hex.	1
TWHB 38316	5	Hex Bit 3/8" Socket. 3/16" Hex.	1
TWHB 3814	6	Hex Bit 3/8" Socket. 1/4" Hex.	1
TWHB 38516	7	Hex Bit 3/8" Socket. 5/16" Hex.	1
TWHB 3838	8	Hex Bit 3/8" Socket. 3/8" Hex.	1
TWHB 1212	9	Hex Bit 1/2" Socket. 1/2" Hex.	1
TWDA 3812	10	Drive Adaptor. 3/8" Female To 1/2" Male (Needed For Sa16a, Sa18a And Sa20a).	1
TWBS 14	11	13 Piece 1/4" Drive Insert Bit Set.	1
TWSB	12	Holder For 1/4" Hex Screwdriver Bit. 3/8" Drive.	1

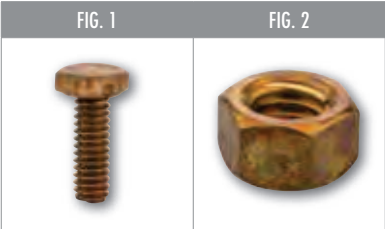
HARDWARE, TOOLS & TESTERS

Silicon Bronze Bolts & Hex Nuts

Hardware
HB, HN Series

FEATURES

- Corrosion resistance and physical strength combine to provide reliability.



CAT. NO.	FIG. NO.	BOLT SIZE	HEX/ WRENCH SIZE	BOLT SHAPE	LENGTH (IN)	STD. CTN. QTY.
HB403	1	1/4"	1/4"		3/4"	25
HB404	1	1/4"	1/4"		1"	25
HB405	1	1/4"	1/4"		1 1/4"	25
HB406	1	1/4"	1/4"		1 1/2"	25
HB505	1	5/16"	5/16"		1 1/4"	25
HB507	1	5/16"	5/16"		2"	25
HB604	1	3/8"	3/8"		1"	25
HB605	1	3/8"	3/8"		1 1/4"	25
HB606	1	3/8"	3/8"		1 1/2"	25
HB607	1	3/8"	3/8"		2"	25
HB804	1	1/2"	1/2"		1"	25
HB805	1	1/2"	1/2"		1 1/4"	25
HB806	1	1/2"	1/2"		1 1/2"	25
HB807	1	1/2"	1/2"		2"	25
HB808	1	1/2"	1/2"		2 1/4"	25
HB809	1	1/2"	1/2"		2 1/2"	25
HB811	1	1/2"	1/2"		3"	25
HB812	1	1/2"	1/2"		3 1/2"	25
HN-4	2	1/4"	1/4"		—	25
HN-5	2	5/16"	5/16"		—	25
HN-6	2	3/8"	3/8"		—	25
HN-8	2	1/2"	1/2"		—	25

HARDWARE, TOOLS & TESTERS

Flat Washers & Split Lockwashers

Hardware
SLW, FW Series

FEATURES

- Corrosion resistance and physical strength combine to provide reliability.



CAT. NO.	FIG. NO.	BOLT SIZE	HEX/ WRENCH SIZE	WASHER SHAPE	LENGTH (IN)	STD. CTN. QTY.
SLW-4	1	1/4"	–		–	25
SLW-5	1	5/16"	–		–	25
SLW-6	1	3/8"	–		–	25
SLW-8	1	1/2"	–		–	25
FW-4	2	1/4"	–		–	25
FW-5	2	5/16"	–		–	25
FW-6	2	3/8"	–		–	25
FW-8	2	1/2"	–		–	25

HARDWARE, TOOLS & TESTERS

Stainless Steel Bolts, Hex Nuts, Flat & Split Lockwashers

Tools

SS,SSHN, SSBW, SSSLW, SSFW Series

FEATURES

- Corrosion resistance and physical strength combine to provide reliability.



CAT. NO.	FIG. NO.	BOLT SIZE	HEX/ WRENCH SIZE	BOLT/WASHER SHAPE	LENGTH (IN)	STD. CTN. QTY.
SS66	1	3/8"	3/8"		2 1/4"	25
SS34	1	1/2"	1/2"		1 3/4"	25
SS37	1	1/2"	1/2"		2 1/2"	25
SSHN-6	2	3/8"	3/8"		–	25
SSHN-8	2	1/2"	1/2"		–	25
SSBW-6	3	3/8"	–	–	–	25
SSSLW-8	3	1/2"	–	–	–	25
SSFW-6	4	3/8"	–	–	–	25
SSFW-8	4	1/2"	–	–	–	25
SSBW-8	5	1/2"	–	–	–	25



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LIGHTING



LED LIGHTING

Small Wallpack LED with Photocontrol

Lower Wattage & Higher Output
WP13LEDPC



FEATURES

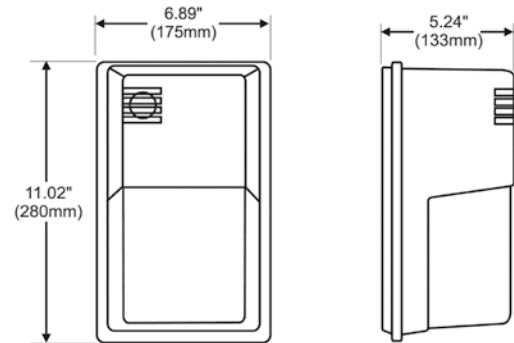
- Die cast aluminum back plate with polycarbonate housing.
- Architectural bronze finish.
- Quick mount installation.
- Color temperature - 4700k.
- High impact-resistant lens with built-in photocontrol.

SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

WARRANTY

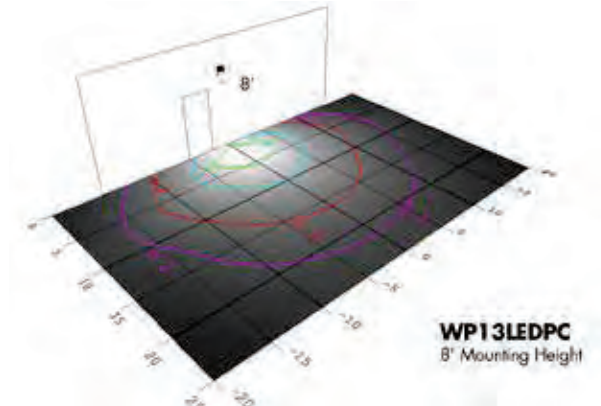
- 5-year Limited.
- See website for details. www.nsiindustries.com



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
WP13LEDPC	12.6	615LM**	4700K	49	120VAC	70+	-40 °C	50W - 70W MH

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

PHOTOMETRIC REPORTS



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LED LIGHTING

Small Wallpack LED Cutoff

Lower Wattage & Higher Output

WP12LED



FEATURES

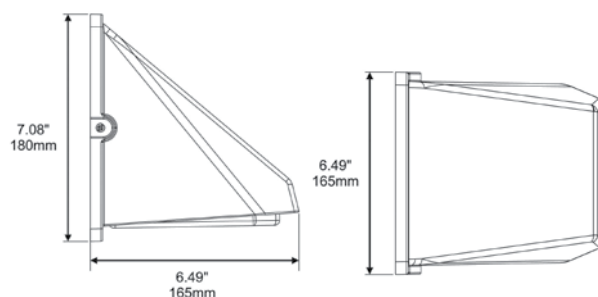
- Metal back plate with polycarbonate cover.
- Architectural bronze finish.
- Quick mount installation.
- Color temperature - 5000k.
- High impact polycarbonate/diffuser.
- DLC (Design Lights Consortium).

SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

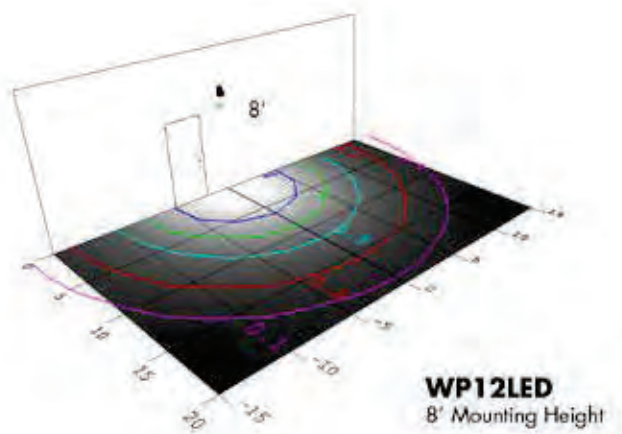
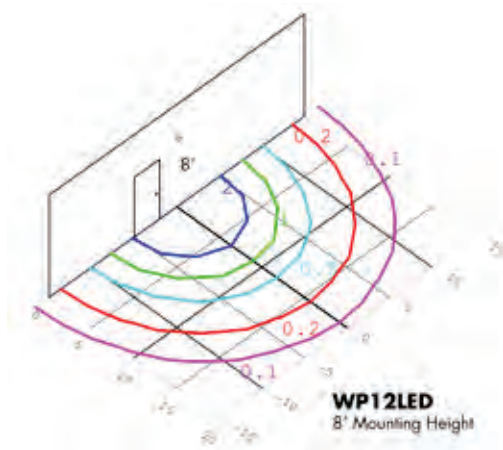
- 5-year Limited.
- See website for details. www.nsiindustries.com



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
WP12LED	11.3	828lm**	5000K	73	120-277VAC	70+	-40 °C	50W - 70W MH

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

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LED LIGHTING

Medium Wallpack LED Wide Area

Lower Wattage & Higher Output
WP36LED



SPECIFICATIONS

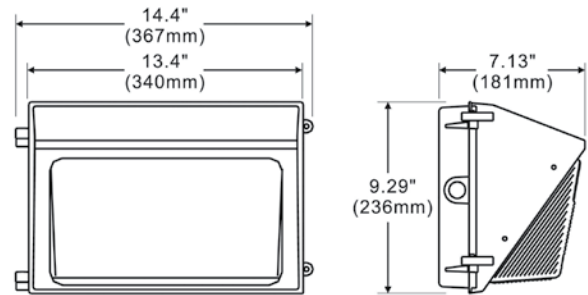
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC Listed (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

FEATURES

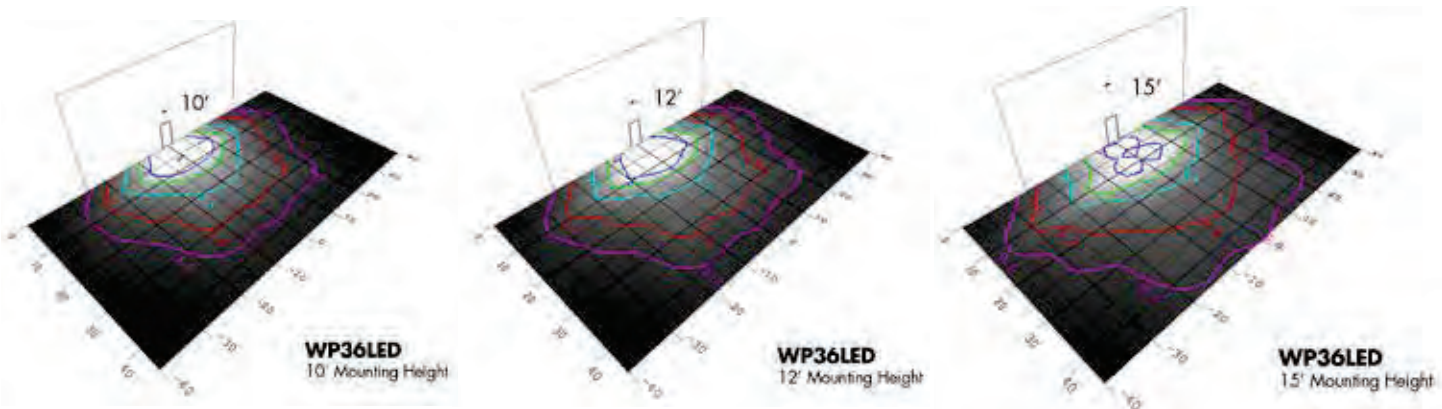
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700K.
- Heat & impact-resistant borosilicate glass lens.
- New generation led module.
- DLC Listed (Design Lights Consortium).



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
WP36LED	40	4500LM**	5000K	112.5	120-277VAC	70+	-40 °C	150W - 200W MH

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

PHOTOMETRIC REPORTS



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LED LIGHTING

Medium Wallpack LED Cutoff

Lower Wattage & Higher Output
WP38LED



SPECIFICATIONS

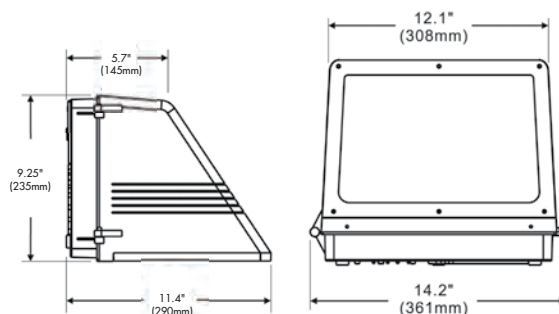
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

FEATURES

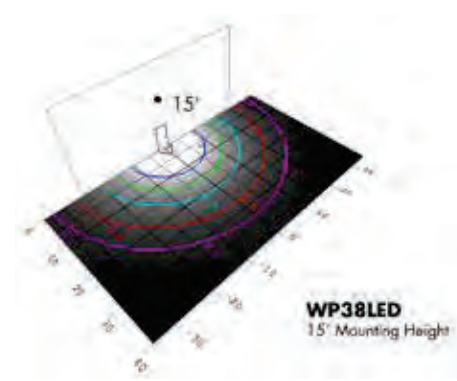
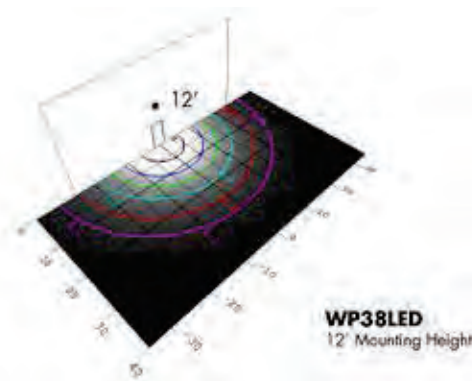
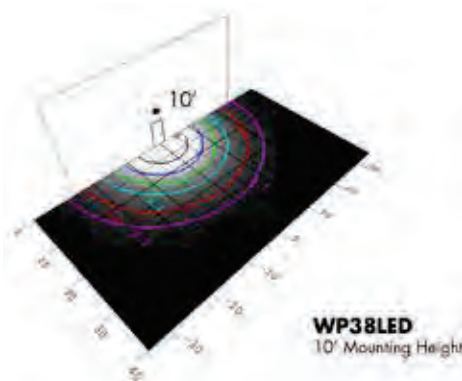
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700K.
- Heat & impact-resistant tempered glass lens.
- IP65 Rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
WP38LED	39	2857lm**	5000K	73	120-277VAC	70+	-30 °C	150W MH

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

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LED LIGHTING

Large Wallpack LED Wide Area Lower Wattage & Higher Output WP68LED



SPECIFICATIONS

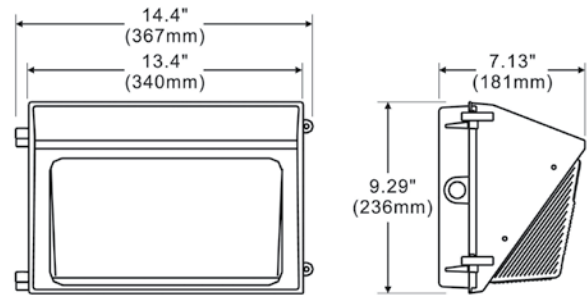
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC Listed (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

FEATURES

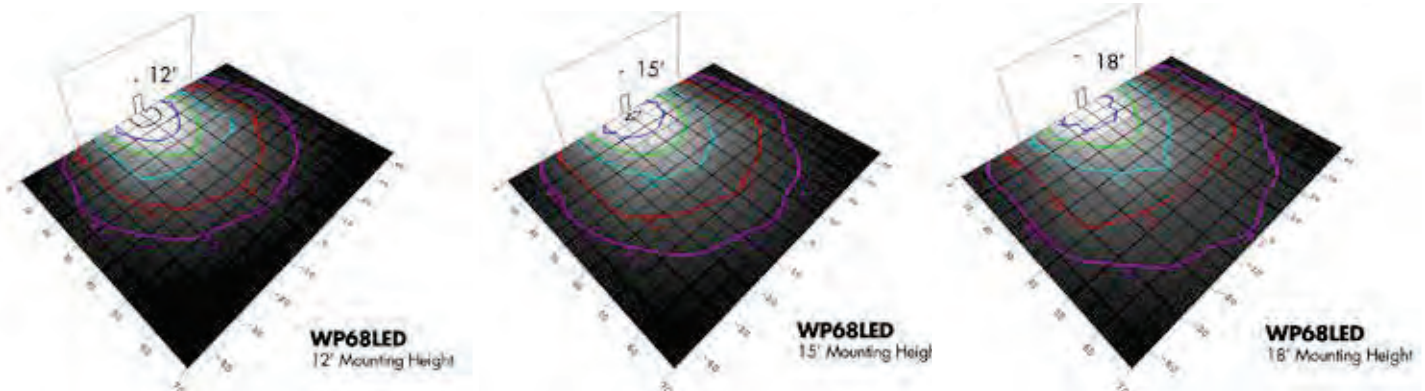
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact-resistant borosilicate glass lens.
- IC protection.
- New generation LED module.
- DLC Listed (Design Lights Consortium).



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
WP68LED	75	9000LM**	5000K	120	120-277VAC	70+	-40 °C	250W - 400W MH

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LED LIGHTING

Large Wallpack LED Cutoff

Lower Wattage & Higher Output

WP77LED



FEATURES

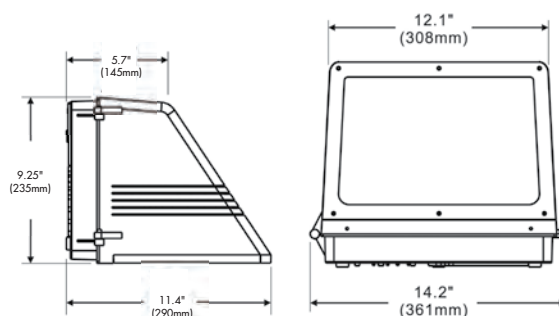
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact-resistant tempered glass lens.
- IP65 Rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

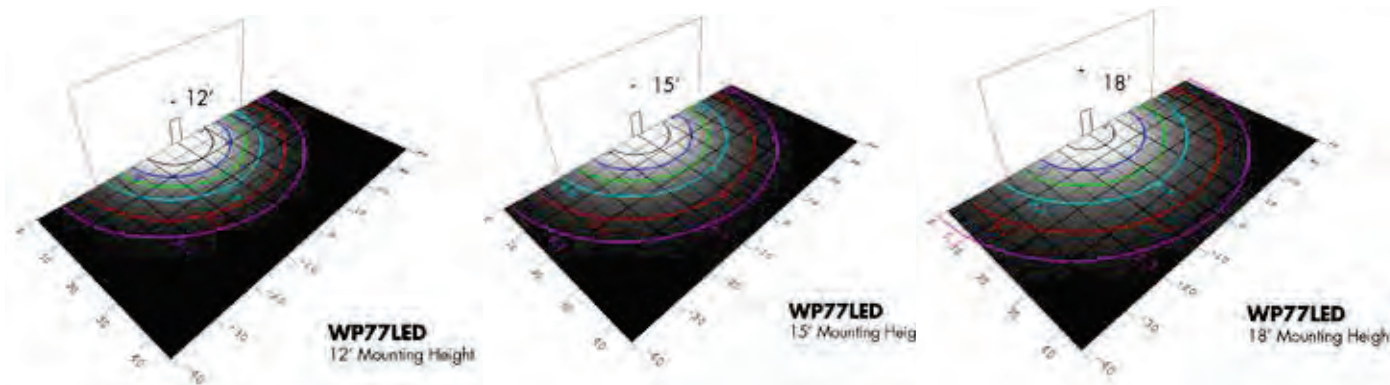
- 5-year Limited.
- See website for details. www.nsiindustries.com



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
WP77LED	77	5449lm**	4700K	71	120-277VAC	70+	-30 °C	250W MH

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LED LIGHTING

Medium Flood LED

Lower Wattage & Higher Output
FL20LED



FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC current controlled LED circuits.
- DLC (Design Lights Consortium).

ACCESSORY

GROUND STAKE (GST)

- cULus Listed for wet locations and does **NOT** include the 5-year Limited Warranty.
- Adjustable stabilizer and built in wiring compartment.
- Durable molded plastic with die cast fitting for 1/2" NPT threads.
- Two 1/2" coin plugs for enclosed wiring.
- Two 1/2" coin plugs outside for surface and through-wiring.

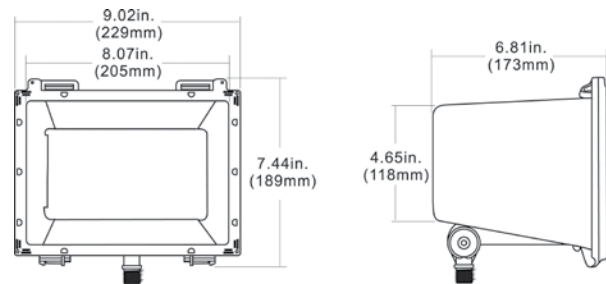


SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

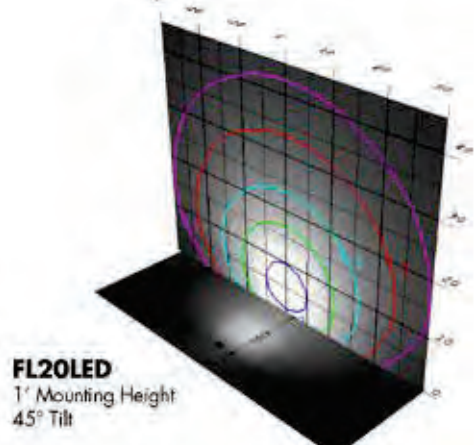
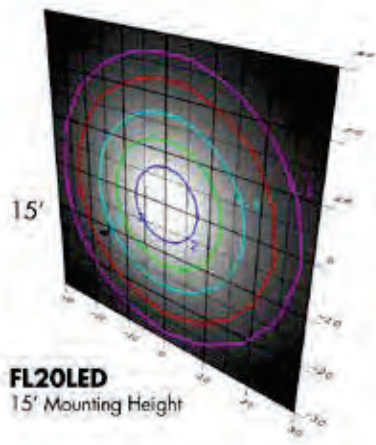
- 5-year Limited.
- See website for details. www.nsiindustries.com



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
FL20LED	22	1686LM**	4700K	77	120-277VAC	70+	-30 °C	70W - 100W MH
GST	DESCRIPTION: Non-metallic Heavy Duty Ground Stake.			LENGTH: 19 in.	WIDTH: 9 in.	DEPTH: 3.5 in.		

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

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LED LIGHTING

Large Flood LED

Lower Wattage & Higher Output
FL40LED



SPECIFICATIONS

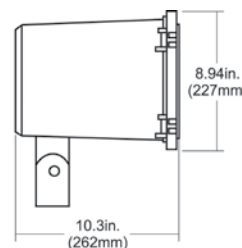
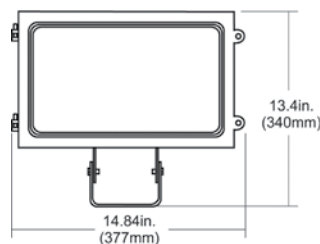
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

FEATURES

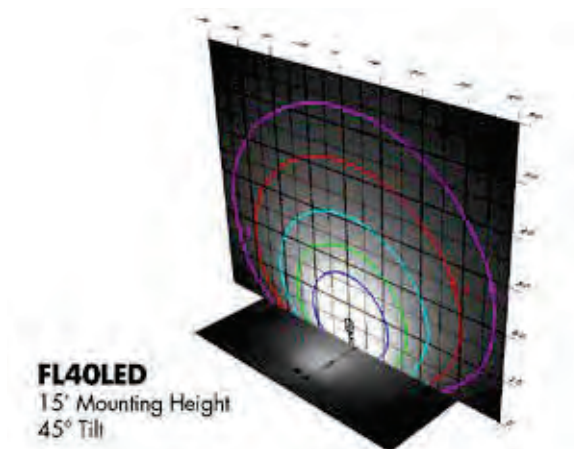
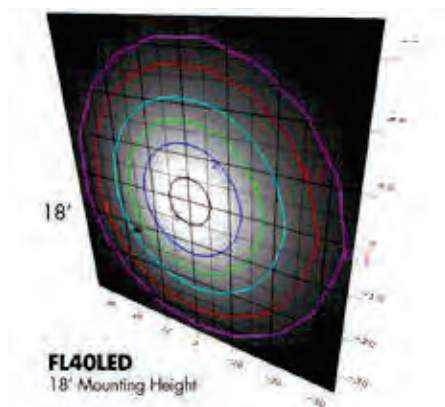
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC Current Controlled LED Circuits.
- DLC (Design Lights Consortium).



CAT. NO.	FIG. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
FL40LED	1	43.5	3458lm**	4700K	79	120-277VAC	70+	-30 °C	150W-200W MH

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LED LIGHTING

Medium Vaportite Ceiling Mount LED

Lower Wattage & Higher Output
VTC13LED



SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

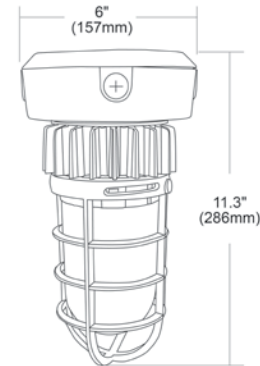
WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

For Incandescent models see page 316.

FEATURES

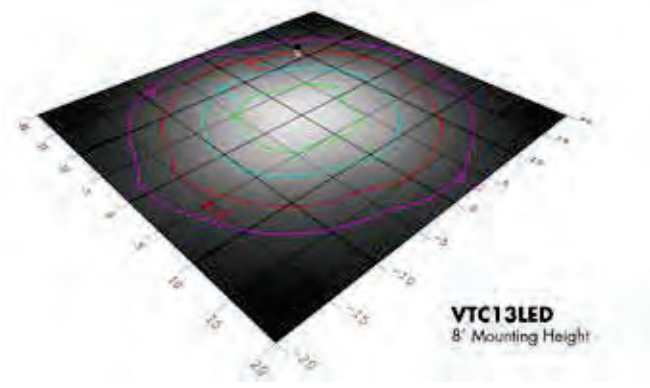
- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 5000k.
- 1/2" Conduit.
- Plugs on all 4 sides.



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
VTC13LED	12.6	636LM**	5000K	50	120-277VAC	70+	-40 °C	50W - 70W MH

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LED LIGHTING

Medium Vaportite Wall Mount LED

Lower Wattage & Higher Output
VTW13LED



SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

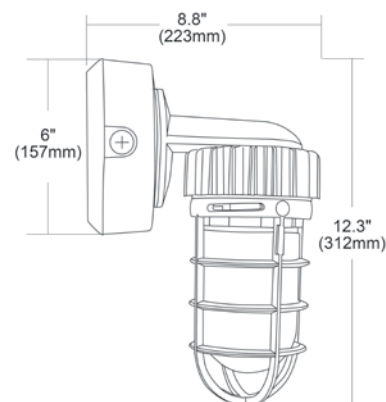
WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

For Incandescent models see page 316.

FEATURES

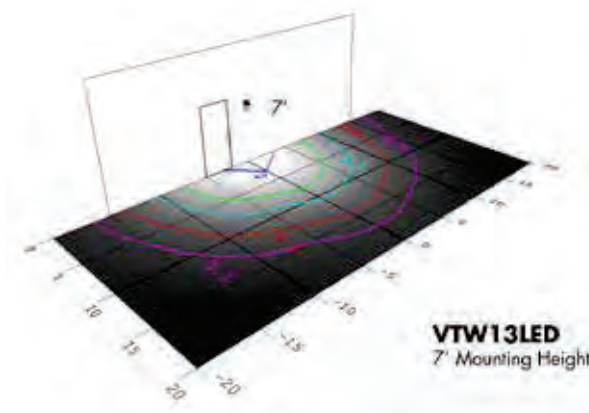
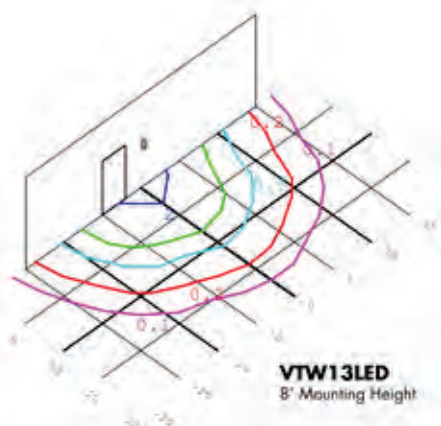
- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Heat & impact resistant tempered glass lens.
- IP65 Rated & IC protection.



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
VTW13LED	12.6	636lm**	5000K	50	120-277VAC	70+	-40 °C	50W-70W MH

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LED LIGHTING

Dusk-to-Dawn Security Light LED

Lower Wattage & Higher Output
DTD35LED



SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

WARRANTY

- 5-year Limited.
- See website for details. www.nsiindustries.com

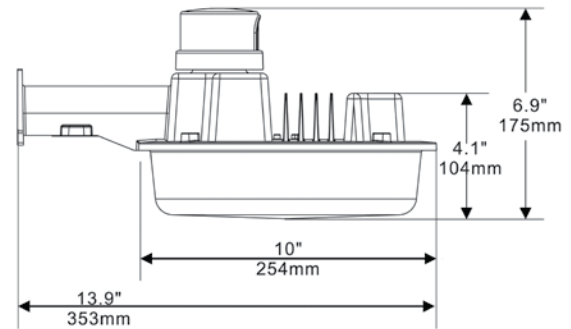
For Incandescent models see page 315.

FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Impact-resistant lens.
- Photocontrol included.

ACCESSORY

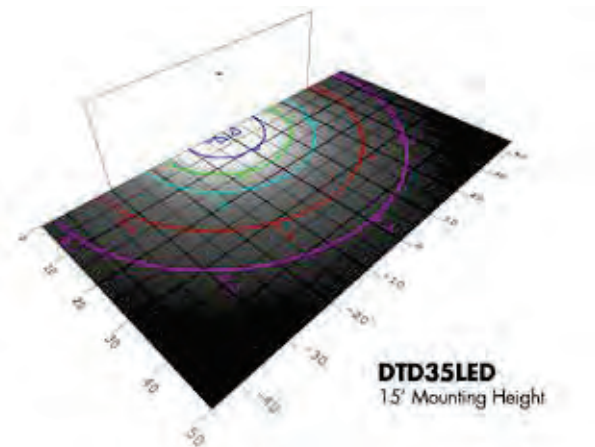
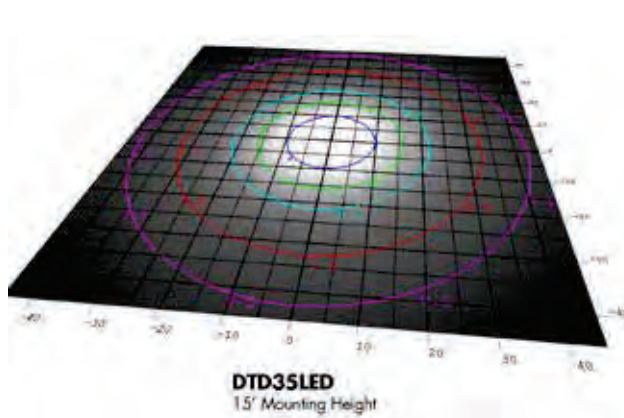
- DTDARM.



CAT. NO.	SYSTEM WATTS	LUMEN OUTPUT	COLOR	LM/W	INPUT VOLTAGE	COLOR RENDERING INDEX (CRI)	STARTING TEMP.	EQUIVALENT
DTD35LED	33.2	2725LM**	5000K	82	120VAC	70+	-20 °C	100W - 150W MH
DTDARM	Optional and available.							

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PHOTOMETRIC REPORTS



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HID & FLUORESCENT LIGHTING

Mini Wallpacks & Entry Cylinder

WP, EL Series

SPECIFICATIONS

- cULus Listed for wet locations.
- UL Listed for wet locations.
- Energy Saving Fluorescent.

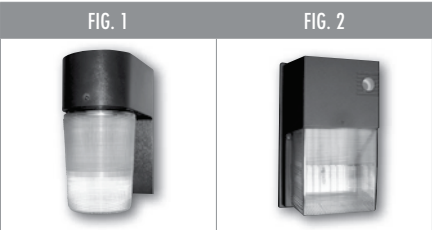
FEATURES

Mini Wallpacks (WP)

- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Mini wallpacks are available with a one-piece polycarbonate housing and lens (1) or with a die-cast housing and borosilicate glass lens (2).
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Polycarbonate version available with built-in photocontrol.
- Die cast version can be field installed with photocontrol.
- Lamp included.

Entry Cylinder (EL)

- For loading docks, security lighting and entrance doorway lighting.
- Features impact and corrosion resistant polycarbonate housing and polycarbonate lens. The lens is engineered to diffuse light to properly light entryways without glare.
- Lens locks in place with an allen set screw to resist tampering.
- 26W 4100K fluorescent lamp.
- Lamp included.



CAT. NO.	FIG. NO.	DESCRIPTION	VOLTAGE	HEIGHT (L) (IN.)	WIDTH (W) (IN.)	DEPTH (D) (IN.)	BALLAST	LAMP	BASE
EL26FL*	1	Entry Cylinder 26 Watt Fluorescent	120 VAC	9	5	7	Electronic	PLC	—
WP26FLPC*	2	26 Watt Fluorescent with Photocontrol	120/277VAC	11	6.9	5.2	Electronic	PLC	—
WP70SPC	2	70 Watt Sodium With Photocontrol	120VAC	11	6.9	5.2	R-NPF	ED17	Medium

HID LIGHTING

Medium Wallpacks

WPM, WPLD Series



SPECIFICATIONS

- cULus Listed for wet locations.
- UL Listed for wet locations.
- *e pulse Start.

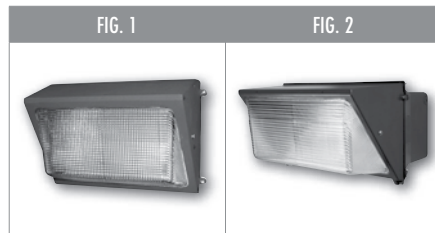
FEATURES

Medium Wallpacks (WPM)

- For warehouse, perimeter lighting, security, and retail.
- Die cast housing and lens frame with powdercoat finish and a porcelain medium base socket assembly.
- Front frame is hinged with one piece stippled aluminum reflector.
- Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Lamp included.

Medium Wallpacks (WPLD)

- For warehouse, perimeter, security and retail lighting.
- Large Deep wallpacks have a die cast housing with powdercoat finish and a porcelain 4KV mogul socket assembly.
- Specular aluminum reflector. Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Excellent for security and perimeter lighting, tunnels and commercial and industrial applications.
- Large Deep wallpacks have an extra deep housing for better cooling and longer lasting.
- Lamp included.



CAT. NO.	FIG. NO.	DESCRIPTION	VOLTAGE	BALLAST	HEIGHT (L) (IN.)	WIDTH (W) (IN.)	DEPTH (D) (IN.)	LAMP	BASE
WPM100MHQ	1	100 Watt Metal Halide	120/208/240/277VAC	QUAD HX-HPF	9	14.25	7.1	ED17	Medium
WPM150MHQP*	1	150 Watt Metal Halide Pulse Start	120/208/240/277VAC	QUAD PULSE	9	14.25	7.1	ED17	Medium
WPLD250MHQP*	2	250 Watt Metal Halide Pulse Start	120/208/240/277VAC	QUAD PULSE	9	18.2	12.8	ED28	Mogul



*energy saving
FLUORESCENT!

FLUORESCENT FLOODLIGHT

FLF Series



FEATURES

- For landscape, facade, security, pathway and sign lighting.
- NSi's non-metallic Fluorescent Floodlight features twin 13 Watt fluorescent lamps, fully silicone gasketed lens and frame.
- Mounts with fully adjustable 1/2" NPT threaded knuckle.
- Lamp included.

SPECIFICATIONS

FLUORESCENT FLOODLIGHT (FLF)

- cULus Listed for wet locations.
- UL Listed for wet locations.
- *Energy Saving Fluorescent.

CAT. NO.	DESCRIPTION	DIAMETER (BACKPLATE) (IN.)	VOLTAGE	BALLAST	HEIGHT (H) (IN.)	WIDTH (W) (IN.)	DEPTH (D) (IN.)	LAMP
FLF26NM*	Fluorescent Flood 26 Watt Non-metallic	—	120VAC	ELECTRONIC	4.75	9.25	4.6	PLC

QUARTZ LIGHTING

Quartz & Incandescent Floodlight with Lamp

Floodlight

QF, PHNM Series



FEATURES

Quartz Floodlight (QF)

- For accent, security, landscape, facades, signs and general purpose floodlighting.
- Solid one piece die cast aluminum construction, high impact resistant tempered glass lens, aluminum reflector and corrosion resistant hardware.
- Silicone rubber gasketing is included to prevent leakage from outside.
- 150 Watt is perfect for lighting small outdoor areas; the others are excellent for general purpose floodlighting.
- Mounts with 1/2" NPT knuckle.
- Lamps included.

Incandescent Floodlight (PHNM)

- Incandescent: General purpose floodlighting.
- Quartz: Accent, security, landscape, facades, signs and general purpose floodlighting.
- Oversized backplate designed specially to cover gaps where cutouts for boxes are too big.
- Extra deep backplate also fits over a flush-mounted pancake box to provide a good fit and appearance.
- Both par holders swivel side to side and up and down and can be securely locked.

SPECIFICATIONS

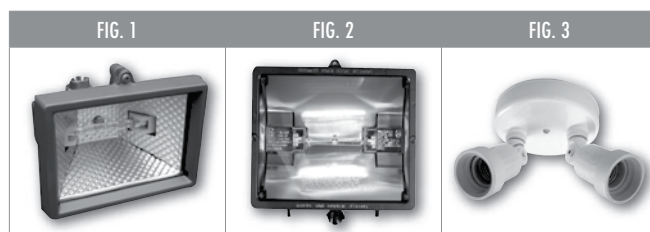
Quartz Floodlight (QF)

- cULus Listed for wet locations.
- UL Listed for wet locations.

Incandescent Floodlight (PHNM)

- cCSAus.

For Ground Mounting see page 301 or model GST Non-Metallic Ground Stake.



CAT. NO.	FIG. NO.	DESCRIPTION	VOLTAGE	HEIGHT (L) (IN.)	WIDTH (W) (IN.)	EXTENSION
QF150B	1	150 Watt Quartz Flood Bronze With Lamp	120VAC	3.5	3.3	3.9
QF300-500B	1	Quartz Flood Bronze With 300 & 500 Watt Lamps	120VAC	5.75	5.75	4.6
PHNM300	2	300 Watt Nonmetallic Twin Par Holder	—	—	—	—

HID LIGHTING

High Pressure Sodium Ballast Kits with Lamps

Ballast Kits

BKS Series



- FEATURES**
- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.

CAT. NO.	DESCRIPTION	VOLTAGE	LAMP
BKS70QL-MED	70 Watt HPS Quad	120/208/240/277V	Medium
BKS100QL-MED	100 Watt HPS Quad	120/208/240/277V	Medium
BKS150QL-MED	150 Watt HPS Quad	120/208/240/277V	Medium
BKS400QL-M	400 Watt HPS Quad	120/208/240/277V	Mogul

HID LIGHTING

High Pressure Sodium Ballast Kits Only

Ballast Kits

BKS Series



- FEATURES**
- Kit includes: Cap, ignitor and brackets.

CAT. NO.	DESCRIPTION	VOLTAGE
BKS70R	70 Watt HPS Reactor – Cap, Ignitor & Brackets	120V
BKS100R	100 Watt HPS Reactor – Cap, Ignitor & Brackets	120V
BKS50Q	50 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V
BKS70Q	70 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V
BKS100Q	100 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V
BKS150Q	150 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V
BKS250Q	250 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V
BKS400Q	400 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V
BKS1000Q	1000 Watt HPS Quad – Cap, Ignitor & Brackets	120/208/240/277V

HID LIGHTING

Metal Halide Ballast Kits with Lamp

Ballast Kits
BKM Series



FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.

CAT. NO.	DESCRIPTION	VOLTAGE	LAMP
BKM100QL-MED	100 Watt Metal Halide Quad	120/208/240/277V	Medium
BKM320QPL-M*	320 Watt Metal Halide Pulse Quad	120/208/240/277V	Mogul
BKM1000QL-M	1000 Watt Metal Halide	120/208/240/277V	Mogul

HID LIGHTING

Metal Halide Ballast Kits Only

Ballast Kits
BKM Series



FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.

CAT. NO.	FIG. NO.	DESCRIPTION	VOLTAGE
BKM50Q	1	50 Watt Metal Halide Quad — Cap, Ignitor & Brackets	120/208/240/277V
BKM70Q	1	70 Watt Metal Halide Quad — Cap, Ignitor & Brackets	120/208/240/277V
BKM100120	1	100 Watt Metal Halide — Cap, Ignitor & Brackets	120V
BKM100Q	1	100 Watt Metal Halide Quad — Cap, Ignitor & Brackets	120/208/240/277V
BKM400480	1	400 Watt Metal Halide — Cap & Brackets	480V
BKM1000Q	1	1000 Watt Metal Halide Quad — Cap & Brackets	120/208/240/277V
BKM1000480	1	1000 Watt Metal Halide — Cap & Brackets	480V
BKM150QP*	1	150 Watt Metal Halide Pulse Quad — Cap, Ignitor & Brackets	120/208/240/277V
BKM250QP*	1	250 Watt Metal Halide Pulse Quad — Cap, Ignitor & Brackets	120/208/240/277V
BKM320QP*	1	320 Watt Metal Halide Pulse Quad — Cap, Ignitor & Brackets	120/208/240/277V

EMERGENCY LIGHTING

Twin Head & Fixed Optics Emergency Light

Emergency Lights

EMTW, EMFW Series



FEATURES

Twin Head Emergency Light (EMTW)

- For commercial, industrial, institutional and retail lighting.
- Unit gives a low profile appearance with automatic LVD (low voltage disconnect) and universal transformer for 120/277VAC.
- Long lasting, efficient ultra-bright 1 watt white LED lamp head.
- Universal mounting plate with quick connect for labor saving installation.
- Injection-molded V-0 flame retardant high-impact thermoplastic housing and a 3.6V maintenance free rechargeable NiCd battery.
- Environmentally-coated solid state charger.

Fixed Optics Emergency Light (EMFW)

- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation with automatic LVD (low voltage disconnect) and universal transformer for 120/277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 6V premium grade, sealed lead acid, maintenance free battery with 90 minute operation.
- Compact, low profile design in pleasing neutral finish with environmentally-coated solid state charger.

SPECIFICATIONS

- Listed for damp locations.
- **Operating Temperature:**
EMTW-LED: 32 °F - 122 °F (0 °C - 50 °C)
EMFW: 68 °F - 122 °F (20 °C - 50 °C)
- Meets UL924.



CAT. NO.	FIG. NO.	BATTERY	HOUSING	LAMP	VOLTAGE
EMTW-LED	1	3.6 Volt	White	2 x 1 Watt	120/277VAC
EMFW 	2	6 Volt	White	2 x 5.4 Watt	120/277VAC

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EMERGENCY LIGHTING

LED Exit & Combo LED Exit Light

EXL, EEL Series



SPECIFICATIONS

- UL Listed for damp locations.
- **Operating Temperature:**
EXL: 32 °F - 131 °F (0 °C - 55 °C)
EEL: 32 °F - 104 °F (0 °C - 40 °C)
- Meets UL924.

FEATURES

LED Exit Lights (EXL)

- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation at 120 or 277VAC.
- Long lasting, efficient ultra-bright Red or Green LED lamps.
- LED exit lights have a universal mounting canopy for side or top installation.
- Long Life 4.8V maintenance free rechargeable NiCd battery for back-up style units.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing with a low profile design and excellent energy savings.

Combo LED Exit Lights (EEL)

- For commercial, industrial, institutional and retail lighting.
- Long lasting, efficient ultra-bright Red or Green LED lamps.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 9.6V long life, maintenance-free, rechargeable NiCd battery with 90.
- Two fully adjustable glare free lighting heads with long lasting, efficient ultra-bright 1 watt white LED lamp heads.
- Remote model allows connection of an additional head with a maximum current draw of 1 watt.
- Self-diagnostic and remote capable options are available for this fixture, call for special quote.
- Universal mounting canopy for ceiling installation.



Figure 1

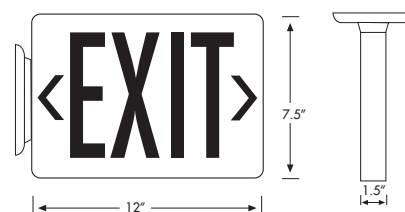
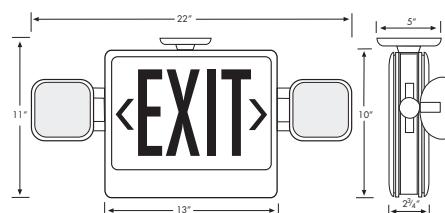


Figure 2



CAT. NO.	FIG. NO.	NO. OF FACES	TYPE	LETTERING	HOUSING	REMOTE
EXLRW	1	2	AC	Red	White	—
EXLBURW-SL	1	2	90 Min. Slimline Battery Backup	Red	White	—
EXLBUGW	1	2	90 Min. Battery Backup	Green	White	—
EEL2RW-LED	2	2	90 min. combo battery backup	Red	White	No
EEL2RWRM-LED	2	2	90 min. combo battery backup	Red	White	Yes
EEL2GW	2	2	90 min. combo battery backup	Green	White	No

EMERGENCY LIGHTING

Wet Location Exit & Emergency Lights

EMWL, EMTW Series



- SPECIFICATIONS**
- UL Listed for wet locations.
 - Operating Temperature: 68 °F - 104 °F (20 °C - 40 °C)
 - Meets UL924.

FEATURES

Wet Location LED Exit Light, Combo 2-Head Unit (EMWL)

- For commercial, industrial, and institutional lighting.
- Polycarbonate, corrosion resistant UV stabilized enclosures meet NFPA, NEC, OSHA, NEC and local and state codes, making these energy-saving wet location LED exit lights great for corrosive or damaging environments.
- Sealed 6V NiCd, rechargeable, maintenance-free battery and high-impact housing.
- Universal 120/277VAC operation with removable directional indicators.

Wet Location LED Emergency Light (EMTW)

- For commercial, industrial, and institutional lighting.
- Dual 120/277VAC operation.
- Polycarbonate, corrosion resistant UV stabilized enclosures meet NFPA, NEC, OSHA, NEC and local and state codes, making thesen energy-saving wet location LED exit lights great for corrosive or damaging environments.
- Sealed lead acid, rechargeable, maintenance-free battery and high-impact housing.
- Push-to-test switch and automatic, low-voltage disconnect (LVD).
- Completely self-contained.



Figure 1

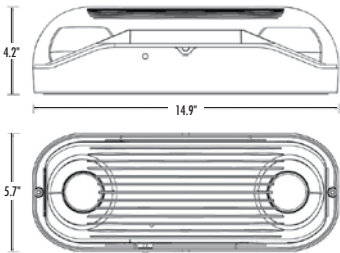
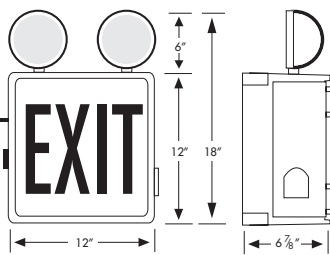


Figure 2



CAT. NO.	FIG. NO.	DESCRIPTION	BATTERY TYPE	LETTERING	HOUSING	BATTERY	HEIGHT (H) (IN.)	WIDTH (W) (IN.)	DEPTH (D) (IN.)	LAMP
EMTWMR16WL	1	Wet Location Twin Head Mr16 Emergency Light-Gray	Sealed Lead Acid 90 Minute Operation	—	—	6V	5.7	14.9	4.2	2 x 7 Watt MR-16 Halogen
EMWL26RW	2	2-Head Emergency Light	Sealed Lead Acid 90 Minute Operation	Red	White	6V	—	—	—	2 x 5.4 Watt Lamp Head

EMERGENCY LIGHTING

Heavy Duty Emergency Light & Emergency Fluorescent Ballast

Emergency Light & Fluorescent Ballast
EMHD, FBP Series



SPECIFICATIONS

Heavy Duty Emergency Light (EMHD)

- UL Listed for dry locations.
- Meets UL924.

Emergency Fluorescent Ballast (FBP)

- UL Listed for damp locations.
- Operating Temperature:
32 °F - 122 °F (0 °C - 50 °C)
- Meets UL924.

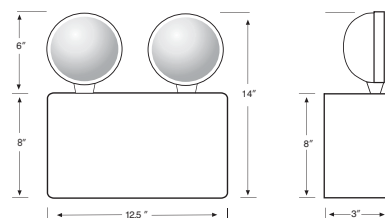
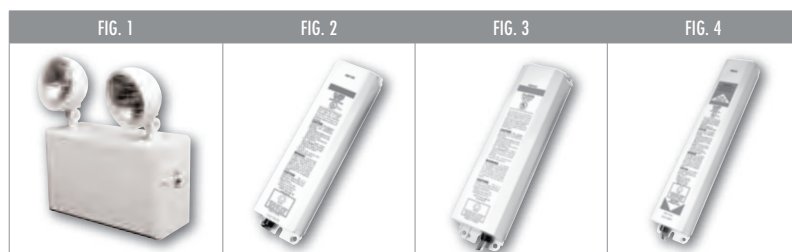
FEATURES

Heavy Duty Emergency Light (EMHD)

- For commercial, industrial, institutional and retail lighting.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277 VAC.
- This heavy duty light comes standard with two fully adjustable glare-free lighting heads and side and top conduit KOs.
- 6V premium grade, sealed lead acid, maintenance free batteries included with 10 year life expectancy.
- Remote capability and easy installation.
- Unit comes with 7.2 watt lamps standard.

Emergency Fluorescent Ballast (FBP)

- Premium grade, sealed NiCd, maintenance free batteries with 90 minute operation.
- Charge rate/power "ON" LED indicator and push-to-test switch.
- All ballast are standard with dual 120/277V input.

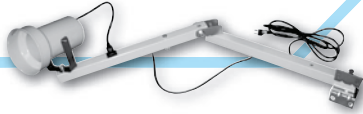


CAT. NO.			FIG. NO.			WATTAGE CAPACITY				BATTERY				VOLTAGE				LAMP			
EMHD506			1			50 Watt				6 Volts				120/277VAC				13			
CAT. NO.	FIG. NO.	MAX. LUMENS	DIMENSIONS			LINEAR FLUORESCENT				COMPACT FLUORESCENT LAMPS				SPECIAL		U-BEND					
			H	L	W	T8(W)		T12(W)		4-PIN CFL (W)		4-PIN LONG CFL (W)		T9 CIRCLINE (W)		T8 (W)		T12 (W)			
# Lamps						1L	2L	1L	2L	1L	2L	1L	2L	1L	2L	1L	2L	1L	2L		
FBP100	2	500	1.5"	9.4"	2.4"	17-32	—	20-40	—	13-26	—	18-36	—	20-40	—	32-40	—	—	—		
FBP60	3	700	1.5"	9.4"	2.4"	25-32	—	25-110	—	—	—	—	—	—	—	—	—	—	—		
FBP50	4	1400	1.5"	13.3"	2.4"	17-32	17-32	30-215	30-40	13-42	13-26	18-55	18-36	40	40	32	32	34	34		

INCANDESCENT LIGHTING

Incandescent Loading Dock Lights

TA-DOK Series



FEATURES

- Adjustable pivot friction which maintains intended positions.
- 1-1/2" square, 14 gauge steel arm resists damage from impact.
- 36", 3 conductor #18SJT cord with wall plug is included.
- Lamp not included.

SPECIFICATIONS

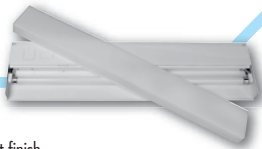
- cULus Listed for wet locations.

CAT. NO.	DESCRIPTION	COLOR
TA-DOK 40VA	115VAC Extends 40 Inches	Yellow
TA-DOK 60VA	115VAC Extends 60 Inches	Yellow

FLUORESCENT LIGHTING

Fluorescent Undercabinet

UCF Series



FEATURES

- For fluorescent undercabinet lighting is constructed of heavy duty steel with white powdercoat finish.
- UV inhibited acrylic diffuser with linear prism which snaps in for easy maintenance.
- T-5 4100K lamp included.
- Fluorescent is great for energy savings.
- Ultra thin, 1" thick.
- K.O.s on top, side and back.
- Includes rocker switch and lamp.

SPECIFICATIONS

- cULus Listed for wet locations.

CAT. NO.	DESCRIPTION	VOLTS (V)	LENGTH (L) (IN.)	WIDTH (W) (IN.)	DEPTH (D) (IN.)
UCF128WT5	8 Watt T-5 Electronic Ballast, with Lamp	110-125	12	5	1
UCF2113WT5	13 Watt T-5 Electronic Ballast, with Lamp	110-125	21	5	1
UCF2416WT5	16 Watt T-5 Electronic Ballast, with Lamp	110-125	24	5	1
UCF3321WT5	21 Watt T-5 Electronic Ballast, with Lamp	110-125	33	5	1
UCF4226WT5	26 Watt T-5 Electronic Ballast, with Lamp	110-125	42	5	1

INCANDESCENT LIGHTING

Box & Wall Vaportite

VTB, VTW Series

SPECIFICATIONS

- cULus Listed for wet locations.

FEATURES

- For well or pit lighting, indicators on docks, industrial and commercial lighting.
- Heavy duty die cast aluminum housing.
- One piece locking die cast aluminum guard with grey polyester powder coat finish.
- Screw in tempered glass globe.
- 1/2" NPT knockouts.
- Lamp not included.



CAT. NO.	FIG. NO.	DESCRIPTION	HEIGHT (L) (IN.)	WIDTH (W) (IN.)	LAMP	STD. CTN. QTY.
VTB15012	1	Box 150 Watt 1/2" Vaportite	9	4.125	Incandescent	—
VTW15012	2	Wall 150 Watt 1/2" Vaportite	10	7.13	Incandescent	—
CG150	3	Clear Glass Globe for 150 Series Vaportite Fixtures	—	—	—	—

ACCESSORIES

SLUL, SC, RS Series



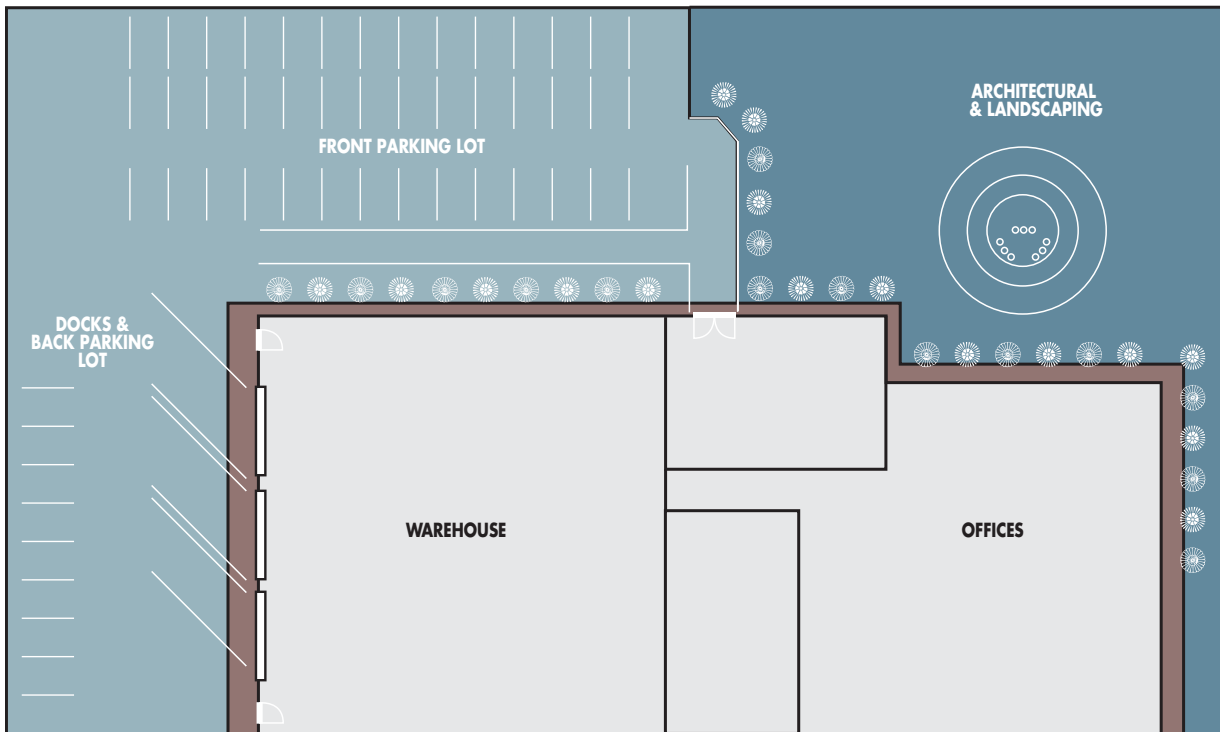
CAT. NO.	FIG. NO.	DESCRIPTION	HEIGHT (L) (IN.)	WIDTH (W) (IN.)	LAMP	STD. CTN. QTY.
SLUL100 (UL Listed)	1	100 Ft. With Molded Sockets in 10 Ft. Intervals. 150 Watts. Osha And Nec Compliant. High Visibility Yellow	—	—	—	1
SC200	2	Standard Cage	—	—	—	24
RS200	3	Rotatable Socket 200 Watt	—	—	—	24

ENERGY CODE REFERENCE GUIDE

EXTERIOR LIGHTING ZONES

When ambient light levels drop at dusk, lighting is needed to provide safety and security. BUT: Does all lighting need to be on all night long? The proper selection of lighting controls is essential to ensuring that energy is only used when needed. An efficient lighting control design creates zones of light levels that can be varied by time at night.

ZONE 1 DUSK TO DAWN All night Security Lighting Photocontrols and Photosensors The first zone gives a minimum light level where security is the primary need. Determine what lighting is necessary, such as building-mounted wallpacks and a portion of the parking lot lighting. These should be on from dusk to dawn, and are best controlled by a photosensor device.	ZONE 2 DUSK TO TIME OFF Safety and Architectural Lighting Photosensor/Time-based controls, Astronomic controls The second zone provides a higher light level for safety, when people are normally present. Maximum levels for the parking lot and all walkway lighting are needed. These lights are best controlled by a combination photosensor and time-based device to allow shut-off during the night. The astronomic-calculated sunset/time control can also be useful.	ZONE 3 ARCHITECTURAL Building Facade, Landscape and Signage Astronomic controls The third zone covers architectural lighting for building facade or landscape and signs. These are best controlled with an astronomic-calculated sunset/time control.
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< **Responsible Energy** is the mark of TORK's commitment to developing and manufacturing energy saving, environmentally friendly products.



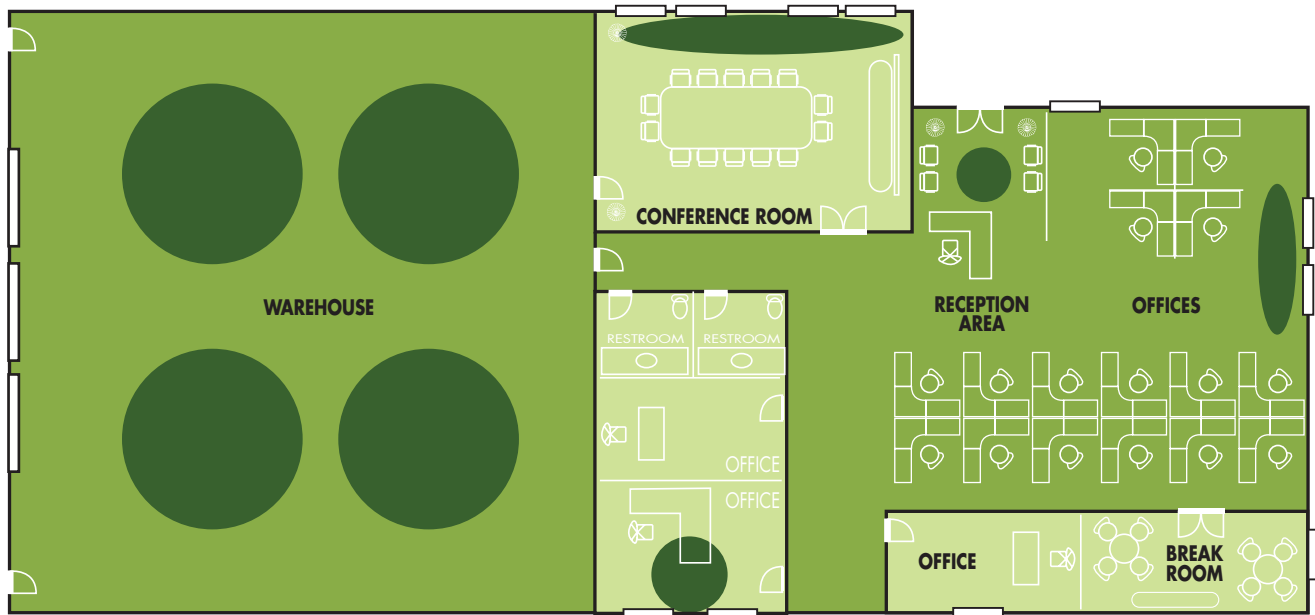
Energy Saving Solutions
Lighting Controls

ENERGY CODE REFERENCE GUIDE

INTERIOR LIGHTING ZONES

The first way to save energy begins with eliminating lighting when it isn't needed. As with exterior lighting, an efficient design matches controls to the typical use of the area.

ZONE A SMALL SPACES Meeting Rooms, Restrooms and Storage Spaces Occupancy Sensors/Interval Timers The first zone includes small spaces such as offices, restrooms and storage areas —places where people may not occupy the space continuously. Individual wall switch replacement provides low cost installation, with occupancy sensors and interval timers as the best solution. In the event that wall switches do not provide proper coverage for the occupancy sensor, ceiling mounted options are available.	ZONE B LARGE SPACES Open Offices, Public Spaces, Hallways and Warehouses Time of Day with Override/Occupancy Sensors The second zone is for common areas, such as hallways, reception spaces or large spaces for open offices. These places are commonly controlled with time-of-day devices and must include an after-hours override. A conveniently placed switch should provide a limited override with a maximum length of two or four hours*, or occupancy sensors can be used to ensure that lights are shut off when people have left the building. * Energy codes vary on the stated maximum time, but shorter times can give more energy savings.	ZONE C DAYLIGHT HARVESTING Large or Small Spaces with Natural Light Light Sensors, Light Sensors with Occupancy Sensors/Astronomic Timers A third zone that uses daylighting control can be added to either of the first two zones. Light sensors can shut off a portion of the lighting when windows or skylights contribute sufficient natural light to the area. This “harvesting” of light is an excellent, green way to conserve energy.
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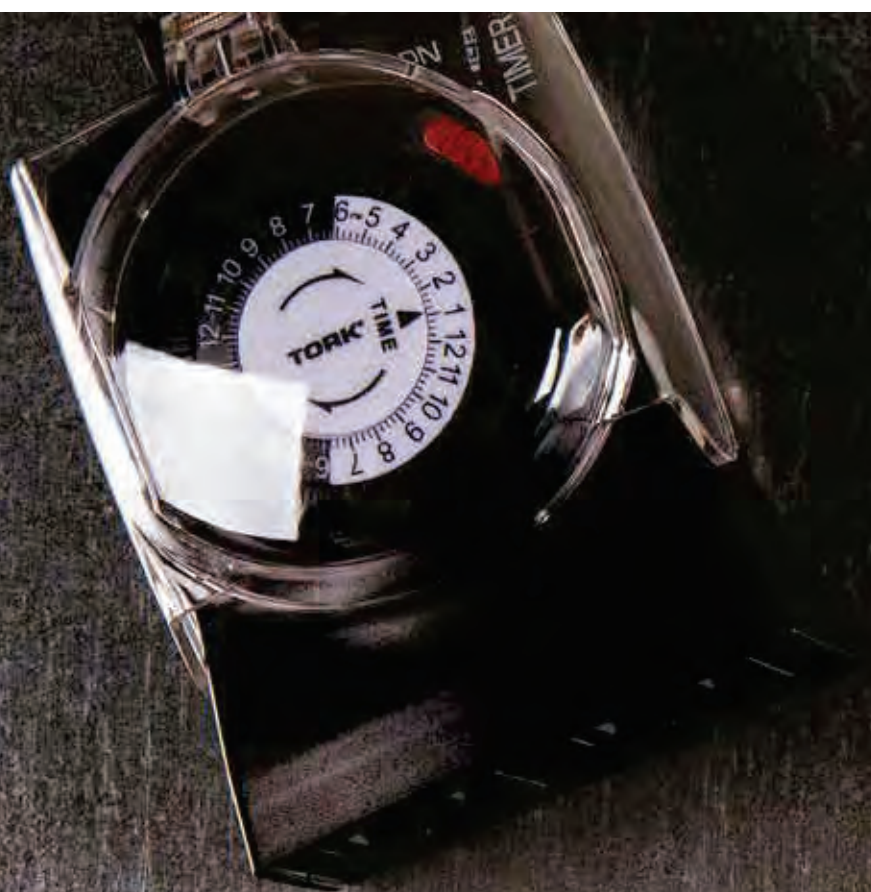
Responsible Energy

Each of these marked products have features that decrease energy consumption and/or damage to the environment by one or more of the following:

- Timed control, Photocontrol and/or Astronomic control of on and off functions of lighting, fans, pumps and appliances.
- Timed control of systems or multiple zones of lighting.
- Photo or occupancy sensing control of lighting.
- Supercapacitor backup, no batteries to replace or dispose.
- Helps meet CA Title 24, ASHRAE, IECC and other standards for responsible building products.



Use the Quick Reference
Energy Code Guide for approved products.





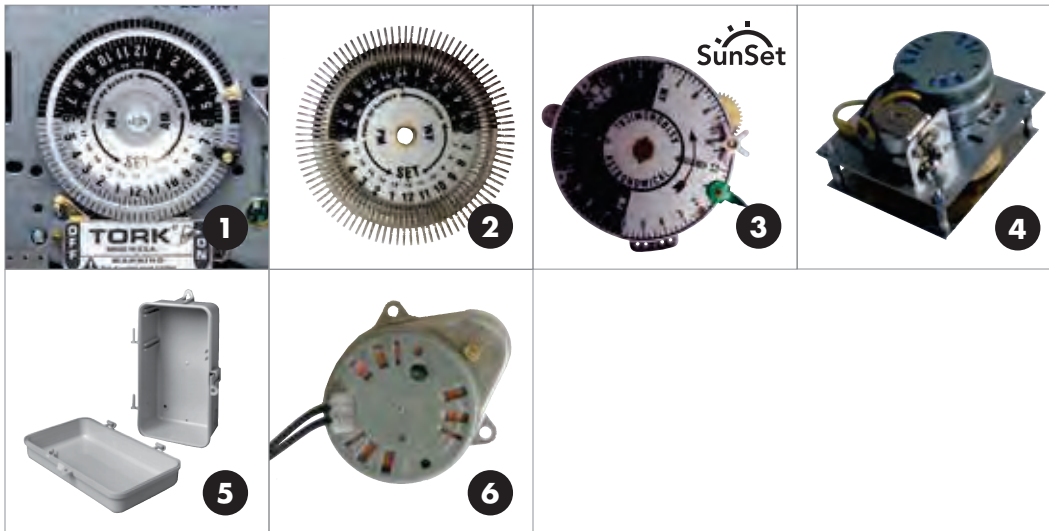
TORK® MECHANICAL

QUICK REFERENCE GUIDE

Series	Page No.	Clock Dial	Minimum Settings (Minutes)		Skip A Day	Manual Override	Sunrise/ Sunset	Max On & Off Events Per Day	Switch Types				Ratings (Amps)	Reserve Power	
			On	Off											
TU40	325	24 Hour	15	15		Permanent		48	SPST	DPST	SPDT	DPDT		40	
1100	326	24 Hour	20	75		Yes		12	SPST	DPST				40	
7000	327	24 Hour	20	75	Yes	Yes		12	SPST	DPST	SPDT	DPDT	3PST	40	Available
7000Z	328	24 Hour	20 or 40 Minute Offset		Yes	Yes		1		DPST	SPDT		3PST	40	Available
TZ	336	24 Hour	20 or 40 Minute Offset		Yes	Permanent by circuit		1				DPDT	3PST	20	Standard
W	333	7 Day	60	120	Yes	Yes		2	SPST	DPST	SPDT	DPDT	3PST 4PST	40	Available
TW	335	7 Day	60	120	Yes	Permanent by circuit		2				DPDT	3PST	20	Standard
T900	334	7 Day	60	120	Yes	Permanent by circuit	Photo Control	2					2 SPDT 3 SPDT	20	Standard
8000	329	24 Hour	15	15	Available			48			SPDT			20	Available
8000	330	6, 12, 30 & 60 Min.	Varies by dial 6 sec. to 1 min.					30/dial			SPDT			20	
WH2B	331	24 Hour	20	75		Yes		12			DPST			40	

IN-WALLS		A	C	711A/701B
Page No.		343	344	341/342
Timer Type		Auto OFF Mechanical	Auto OFF Mechanical	24 Hour Mechanical
Voltage		125/250/277	125/250/277	120
Minimum Settings	ON	Various 2 min-12 hr	Various 2 min-12 hr	30 min.
	OFF			30 min.
Switch Type		SPDT	SPDT or DPST	SPST
Resistive Ratings		20/10/10A	20/10/10A	20/15A
Neutral Required for Wiring		No	No	Yes
3-Way Wiring		No	No	No

FEATURES



1. EASY TO SET DIAL ASSEMBLY

Tork's 24 hour dial assembly allows the user to set the time switch more accurately, easily moving it by hand in small increments. Dial can provide up to 12 ON/OFFs per day with cycles as short as 20 minutes. AM and PM settings are easy to see by the light and dark areas of the dial.

2. CAPTIVE TABS - DUTY CYCLE DIAL

For applications requiring many ON/OFF cycles per day, captive tabs on this dial tilt in and out just using your fingertip!

3. FIELD UPGRADEABLE TO SunSet DIALS

All Tork 24 hour time switches can be upgraded in the field to a SunSet timer dial.

4. SPRING WOUND RESERVE

During power outages, precision spring mechanism takes over instantly and automatically. Keeps the mechanism on time up to 16 hours on 24 hour models and up to 24 hours on 7 day models. No resetting is needed after power resumes, and field installation is easy.

5. REMOVABLE DOOR

Tork time switches feature removable doors to provide easy access for installation and wiring.

6. ENCLOSED MOTOR

Time switch motors are enclosed to protect from dirt and damage.

QUALITY ASSURANCE

TORK® Electromechanical Controls are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality expectations.

MECHANICAL

24 Hour Time Switch

Universal Multi-Voltage, Same ON/OFF Times
TU40 Series



APPLICATIONS

- Lighting, pumps, signs.
- Air conditioning, water heaters, fans.
- Automatic ON/OFF control when operation is required at the same time every day.

FEATURES

- **Multi-Voltage:** Automatic input voltage detection.
- **Easy-Set:** Real time clock face and day/night markings for setting trippers.
- **Scheduling:** Minimum ON is setting 15 minutes. Dial has 96 captive trippers.
- **4 In 1 Contacts:** DPDT can also wire as SPST, SPDT, & DPST.
- **Bypass Switch:** Sets timer to permanent ON, OFF or timer operation.
- **Vacation Mode:** Set timer OFF with no change of tripper settings.
- **Indicating Lights:** Power ON green and load ON red and LED indicators.
- **Standards:** Listed UL60370 (formerly UL60730).

SPECIFICATIONS

- **Input Voltage:** 120/208-240/277 VAC, 60Hz (Auto Detection).
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #18 Awg.
- **Operating Temperature:** -31°F To 116°F (-35°C To +47°C).
- **Power Consumption:** 6 Watts Maximum.
- **Enclosure:** Polycarbonate Indoor/Outdoor Nema 3R Or -Y Suffix Metal Indoor Nema 1 Enclosure. Both With Lockable Hasp Standard (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	DRY CONTACTS (UNPOWERED)	ENCLOSURE TYPE
TU40	24000	120/208-240/277	DPDT	Plastic Indoor/Outdoor NEMA 3R
TU40-Y	24001	120/208-240/277	DPDT	Metal Indoor NEMA 1

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	120-277	40A	30A
Inductive	120-277	30A	15A
Ballast	120	30A	10A
	277	20A	10A
Tungsten	120	15A	
Motor Load	120	1HP, 30FLA, 90LRA	¼HP, 12FLA, 30LRA
	240	2HP, 20FLA, 60LRA	½HP, 12FLA, 33LRA
Pilot Duty	120	720VA	290VA
	240	720VA	360VA
Resistive	28VDC	20A	
Max above 104°F	120-277	30A	

MECHANICAL

24 Hour Time Switch

Same ON/OFF Times Each Day

1100 Series



APPLICATIONS

- Lighting, pumps, signs.
- Air conditioning, water heaters, fans.
- Automatic ON/OFF control when operation is required at the same time every day.

FEATURES

- **Scheduling:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.
- **Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 VAC 60Hz, varies by model.
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14 AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 3 watts maximum.
- **Enclosure:** Lockable hasp. Type varies by model (See Pages 464-468 For Dimensions).
- **Other Mountings:** Adaptor Plate model #IAP allows any 1100 series to fit into an Internatic® case.

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

CAT. NO.	CERTIFICATION	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
1109A	cULus	10105	120-277	DPST	Metal Indoor NEMA 1
1109A-O	cULus	10106	120-277	DPST	Metal Indoor/Outdoor NEMA 3
1101	UL	10011	120	SPST	Metal Indoor NEMA 1
1101B	cULus	10064	120	SPST	Metal Indoor NEMA 1
1101B-P	cULus	10068	120	SPST	Polycarbonate Indoor/Outdoor NEMA 3R
1101B-PC	cULus	10095	120	SPST	Polycarbonate Outdoor w/clear cover NEMA 3R
1101BM-IAP	cULus	10073	120	SPST	Mechanism and retrofit plate
1101-7	CSA	10033	347	SPST	Metal Indoor NEMA 1
1102B	cULus	10065	208-277	SPST	Metal Indoor NEMA 1
1103B	cULus	10066	120	DPST	Metal Indoor NEMA 1
1103B-P	cULus	10069	120	DPST	Polycarbonate Indoor/Outdoor NEMA 3R
1103B-PC	cULus	10096	120	DPST	Polycarbonate Outdoor w/clear cover NEMA 3R
1103B-O	cULus	10098	120	DPST	Metal Indoor/Outdoor NEMA 3
1104B	cULus	10067	208-277	DPST	Metal Indoor NEMA 1
1104B-P	cULus	10070	208-277	DPST	Polycarbonate Indoor/Outdoor NEMA 3R
1104B-PC	cULus	10097	208-277	DPST	Polycarbonate Outdoor w/clear cover NEMA 3R
1104B-O	cULus	10075	208-277	DPST	Metal Indoor/Outdoor NEMA 3
1104BM-IAP	cULus	10074	208-277	DPST	Mechanism and retrofit plate
Replacement Trippers	Order #P47 for a pair of ON/OFF trippers				
Replacement Motor	#101 (120V) & #201 (208-277V)				
Conversion	Astronomic dial. Consult factory for correct number for your latitude				

TYPE	VOLTAGE (VAC)	CONTACT RATING
General Purpose	120-277	40A
Resistive	120-277	40A
Tungsten	120	40A
Ballast	120-277	20A
*Electronic Ballast (LED)	120-277	16A
LED Driver	120-277	20A
Pilot Duty	120	1000VA
	240	2000VA
Motor	120	2HP
	240	5HP
277VAC Single Phase		
1101 is 1000VA Pilot Duty. 1101-7 is 30 Amp Inductive at 347 Volts and CSA Only. *1109A Series Only.		

MECHANICAL

24 Hour Time Switch

Skip-A-Day Feature, Reserve Power Optional
7000 Series



APPLICATIONS

- Lighting, heating, pumps.
- Air conditioning, signs.
- Automatic ON/OFF control when operation is required at the same time every day, with optional versatility of one to six days omission.

FEATURES

- **Scheduling:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.
- **Skip-A-Day:** Omit operations on any day with a 7-spoke wheel marked with days of week. 3 omitting screws included.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Optional Reserve Power:** "L" models keep dial on time up to 16 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 Vac 60 Hz Varies By Model.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14 Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts, 5 Watts For "L" Models Maximum.
- **Enclosure:** Lockable Hasp. Type Varies By Model (See Pages 464-468 For Dimensions).
- **Other Mountings:** Adaptor Plate Model #IAP Allows Any 7100 And 7200 Series (Except "L" Models) To Fit Into An Intermatic® Case.

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
7100	10001	120	SPST	Metal Indoor NEMA 1
7102	10002	208-277	SPST	Metal Indoor NEMA 1
7200	11001	120	DPST	Metal Indoor NEMA 1
7202	11002	208-277	DPST	Metal Indoor NEMA 1
7300	12001	120	3PST	Metal Indoor/Outdoor NEMA 3
7302	12002	208-277	3PST	Metal Indoor/Outdoor NEMA 3
7120	13001	120	SPDT	Metal Indoor NEMA 1
7122	13002	208-277	SPDT	Metal Indoor NEMA 1
7220	14001	120	DPDT	Metal Indoor NEMA 1
WITH RESERVE POWER (Contact factory for lead time)				
7200L	19003	120	DPST	Metal Indoor NEMA 1
7202L	19004	208-277	DPST	Metal Indoor NEMA 1
7300L	19005	120	3PST	Metal Indoor/Outdoor NEMA 3
7120L	19007	120	SPDT	Metal Indoor NEMA 1
7220L	19009	120	DPDT	Metal Indoor NEMA 1
Replacement Trippers	Order #P49 for a pair of ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied.			
Replacement Motor	#101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V).			
SunSet Conversion	Astronomic dial. Consult factory for correct number for your latitude			

TYPE	VOLTAGE (VAC)	CONTACT RATING
General Purpose	120 -277	40A
Resistive	120 -277	40A
Tungsten	120	40A
Ballast	120-277	20A
Pilot Duty	120 -277	1000VA
Motor	120	2HP
	240	5HP
277 volt Single Phase		

MECHANICAL

SunSet Time Switch

Astronomic, Reserve Power Optional
7000Z Series



APPLICATIONS

- Parking lots, walkways, outdoor signage.
- Window displays, canopy lighting, landscape lighting.
- Automatic ON at dusk, OFF at dawn. Control of outdoor lighting.

FEATURES

- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Available from 18° - 45° northern latitudes.
- **Skip-A-Day:** Omit operations on any day with a 7 spoke wheel marked with days of the week. 3 omitting screws included.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Optional Reserve Power:** "L" models keep dial on time up to 16 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 VAC 60 Hz, Varies By Model.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14 Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts, 5 Watts For "L" Models Maximum.
- **Enclosure:** Lockable Hasp. Type Varies By Model (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
7200Z—*	**	120	DPST	Noryl® Indoor/Outdoor NEMA 3R
7202Z—*	**	208-277	DPST	Noryl® Indoor/Outdoor NEMA 3R
7300Z—*	**	120	3PST	Metal Indoor/Outdoor NEMA 3
7302Z—*	**	208-277	3PST	Metal Indoor/Outdoor NEMA 3
7120Z—*	**	120	SPDT	Noryl® Indoor/Outdoor NEMA 3R
WITH RESERVE POWER (Contact factory for lead time)				
7200ZL—*	**	120	DPST	Noryl® Indoor/Outdoor NEMA 3R
7202ZL—*	**	208-277	DPST	Noryl® Indoor/Outdoor NEMA 3R
7300ZL—*	**	120	3PST	Metal Indoor/Outdoor NEMA 3
7302ZL—*	**	208-277	3PST	Metal Indoor/Outdoor NEMA 3
7120ZL—*	**	120	SPDT	Noryl® Indoor/Outdoor NEMA 3R
Replacement Motor		#101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V)		
Add degrees latitude to complete number (30,34,42). Consult factory for UPC number.				

TYPE	VOLTAGE (VAC)	CONTACT RATING
General Purpose	120 - 277	40A
Resistive	120 - 277	40A
Tungsten	120	40A
Ballast	120-277	20A
Pilot Duty	120 - 277	1000VA
Motor	120	2HP
	240	5HP
277VAC Single Phase		

MECHANICAL

24 Hour Duty Cycle Time Switch

Multiple Daily ON/OFF Operations

8000 Series



APPLICATIONS

- Duty cycling, ventilating fans, pumping.
- Irrigation, process control, laboratory experiments.
- For one or multiple daily ON/OFF operations.

FEATURES

- **Scheduling:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.
- **Duty Cycle:** Adjustable from $\frac{1}{2}$, 1, 2, 3, 4, 6, 12, and 24 hours.
- **Skip-A-Day:** Some models include 7 day or 14 day wheel to omit selected days of the week.
- **Optional Reserve Power:** "L" models keep dial on time up to 16 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

SPECIFICATIONS

- **Input Voltage:** 120, 208-277VAC or 480VAC, 60Hz, Varies By Model.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts, 5 Watts For "L" Models Maximum.
- **Enclosure:** Lockable Hasp. Type Varies By Model (See Pages 464-465 For Dimensions).
- **Other Mountings:** Adaptor Plate Model #IAP Allows 8001 & 8004 To Fit Into An Intermatic® Case.

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
8001	70001	120	SPDT	Metal Indoor NEMA 1
8001-N	70025	120	SPDT	Noryl® Indoor/Outdoor NEMA 3R
8001-LC/WB	70010	120	SPDT	Mechanism and bracket
8001-O	70029	120	SPDT	Metal Indoor/Outdoor NEMA 3
8004	70002	208-277	SPDT	Metal Indoor NEMA 1
8001U	70003	480/120 Trans.	SPDT	Metal Indoor NEMA 1
8001U-N	70014	480/120 Trans.	SPDT	Noryl® Indoor/Outdoor NEMA 3R
8001U-O	70011	480/120 Trans.	SPDT	Metal Indoor/Outdoor NEMA 3
24 HOUR WITH SKIP-A-DAY				
8007	70005	120	SPDT	Metal Indoor NEMA 1
8007-O	70012	120	SPDT	Metal Indoor/Outdoor NEMA 3
8008	70006	208-277	SPDT	Metal Indoor NEMA 1
8007U	70008	480/120 Trans.	SPDT	Metal Indoor NEMA 1
8007U-O	70028	480/120 Trans.	SPDT	Metal Indoor/Outdoor NEMA 3

TYPE	VOLTAGE (VAC)	CONTACT RATING
Resistive	120/240	20A
	480	20A
Motor	120	3/4 HP

MECHANICAL

Repeating Variable Cycle Time Switch

Multiple ON/OFF Cycles

8000 Series



APPLICATIONS

- Duty cycling, ventilating fans, pumping.
- Irrigation, process control, laboratory experiments.
- For one or multiple daily ON/OFF operations.

FEATURES

- **Scheduling:** 60 captive tabs per dial with minimum ON/OFF settings:
 - 60 minute dial with 1 minute tabs.
 - 30 minute dial with 30 second tabs.
 - 12 minute dial with 12 second tabs.
- **Duty Cycle:** Settings of 1/60 th of dial speed.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

SPECIFICATIONS

- **Input Voltage:** 120VAC, 60Hz.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts Maximum.
- **Enclosure:** Indoor Nema 1 Metal With Lockable Hasp (See Pages 464-465 For Dimensions).

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	TYPE
8601	70034	120	SPDT	60 Minute
8121	70032	120	SPDT	12 Minute
Replacement Motor	For 8601 #102, for 8301 #108, and for 8121 #107			

TYPE	VOLTAGE (VAC)	CONTACT RATING
Resistive	120 or 240	20A
	480	20A
Motor	120	3/4 HP

MECHANICAL

24 Hour Time Switch

Water Heater Control

WH2B



APPLICATIONS

Automatic ON/OFF control of electric water heaters. Schedules the water heater to turn ON only when needed, avoiding energy waste when hot water is not needed.

FEATURES

- **Scheduling:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs. 1 pair of trippers supplied.
- **External Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Enclosed Motor:** Protects gears for extended life.
- **Standards:** Listed UL917.

SPECIFICATIONS

- **Input Voltage:** 208 – 250V 60 Hz.
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 3 watts maximum.
- **Enclosure:** Indoor NEMA 1 Metal with lockable hasp
(See Pages 464-465 For Dimensions).

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
WH2B	70044	208-250	DPST	Metal Indoor NEMA 1

TYPE	VOLTAGE (VAC)	CONTACT RATING
Resistive	208-250	40 A 10,000W
Replacement Motor	#201 (208-277)	
Replacement Trippers	Order #P47 for a pair of ON/OFF trippers	

MECHANICAL

7 Day Time Switch

Different Schedules Each Day

W Series



APPLICATIONS

- Heating, air conditioning, display lighting.
- Ventilating systems, lighted signage, storefront lighting.

FEATURES

- **Scheduling:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. Models W400A and W402A offer minimum ON/OFF settings of 3½ hours. 7 day calendar dial accommodates up to 2 pairs of ON/OFF trippers per day 7 pairs are supplied.
- **Skip-A-Day:** Omit operations on any day.
- **Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Optional Reserve Power:** "L" models keep dial on time up to 24 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

SPECIFICATIONS

- **Input Voltage:** 120 or 208-277VAC, 60Hz, varies by model.
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 3 watts, 5 watts for "L" models maximum.
- **Enclosure:** Indoor NEMA 1 Metal with lockable hasp.
(See Pages 464-465 For Dimensions).

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

CAT. NO.	CERTIFICATION	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE	
W100	cULus	30001	120	SPST	Metal Indoor NEMA 1	
W120	cULus	33001	120	SPDT		
W200	cULus	31001	120	DPST		
W202	cULus	31011	208-277	DPST		
W220	cULus	34001	120	DPDT		
W222	cULus	34011	208-277	DPDT		
W300	cULus	32001	120	3PST		
W400B	UL	35003	120	4PST		
W402B	UL	35004	208-277	4PST		
WITH RESERVE POWER (Contact factory for lead time)						
W220L	cULus	39009	120	DPDT		
W222L	cULus	39010	208-277	DPDT		
W300L	cULus	39005	120	3PST		
W302L	cULus	39006	208-277	3PST		
W400BL	UL	39008	120	4PST		
Replacement Trippers	Order #P69 for 7 pairs of ON/OFF trippers					
Replacement Motor	#101 (120V) & #201 (208-277V). For "L" models order #36 (120V and #46 (208-277V).					

TYPE	VOLTAGE (VAC)	CONTACT RATING
General Purpose	120 -277	40A
Resistive	120 -277	40A
Tungsten	120	40A
Ballast	120-277	20A
Pilot Duty	120 -277	1000VA
Motor	120	2HP
	240	5HP
277VAC Single Phase		

MECHANICAL

7 Day Time Switch with Photocontrol

Exterior Lighting Control Centers

T900 Series



APPLICATIONS

- Parking lot lighting, HVAC, display lighting.
- Security lighting, lighted signage, storefront lighting.

FEATURES

- **Scheduling:**
Circuit 1: ON automatically at dusk, OFF at individual preset times each day, including skipping days when desired Unit can be set to turn ON before dawn for early morning lighting.
Circuit 2: ON at dusk, OFF at dawn automatically, daily.
Circuit 3: Individual daily ON and OFF settings at desired times, including skipping any desired day or days Minimum ON is setting 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accommodate up to 2 pairs of ON-OFF trippers per day — 7 pairs are supplied.
- **Skip-A-Day:** Omit operations on any day.
- **Manual By-Pass Switches:** Single pole, 20 Amps — one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent — will not disturb automatic settings.
- **Reserve Power:** Standard feature on all models keep dial on time up to 24 hours during power outage.
- **Optional Enclosures:** Contact factory for available options and lead time.
- **Enclosed Motor:** Protects gears for extended life.
- **Note:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

SPECIFICATIONS

- **Input Voltage:** 120VAC 60Hz
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 5 watts maximum.
- **Enclosure:** Indoor NEMA 1 Metal with lockable hasp.
(See Pages 464-465 For Dimensions).

WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

ACCESSORIES

- 2101: See page 421.

ACCESSORY

2101



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
T920L	41033	120	2 SPDT	Metal Indoor NEMA 1
T930L	41055	120	3 SPDT	Metal Indoor NEMA 1
Replacement Trippers	#P69 for 7 pairs of ON/OFF trippers.			
Replacement Motor	#36 (120V)			
Replacement Bypass Switch	#75210			

TYPE	VOLTAGE (VAC)	CONTACT RATING
General Purpose	120/277	20A
Motor	120	1HP
	240	2HP



MECHANICAL

24 Hour Indoor Plug-In Timer

400B Series

FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- On/Off: Manual ON/TIMER switch.

APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.



CAT. NO.	FIG. NO.	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	RATING			
								RESISTIVE	TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
403B	1	16085	125	1	Polarized	Basic Lighting Timer	30 minute	15A @ 1875W	500W	500VA	1/3HP
402B	2	16091	125	1	Grounded	Heavy Duty 24 hour Timer	30 minute	15A @ 1875W	500W	500VA	1/3HP
405B	3	16094	125	2	Grounded	Two Outlet Automatic Timer	30 minute	15A @ 1875W	500W	500VA	TV-4

NOTE: "▲" = Indicates outlet location.



MECHANICAL

24 Hour Indoor Plug-In Timer

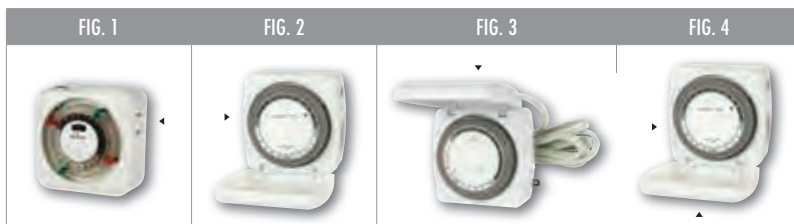
SA100 Series

FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- On/Off: Manual ON/TIMER switch.

APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.



CAT. NO.	FIG. NO.	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	RATING			
								RESISTIVE	INDUCTIVE	TUNGSTEN	MOTOR
SA011	1	16501	120	1	Polarized	Lamp Timer with LED night light	Two Pair of ON/OFF trippers	15A	15A	1800W	1/2HP
SA100	2	16507	120	1	Polarized	Basic Timer with cover to hide dial	15 Minutes	15A	15A	1800W	1/2HP
SA105	3	16510	120	1 Timed, 1 Untimed	Polarized	Table Top Timer for easy access with 6 foot cord	15 Minutes	15A	15A	1800W	
SA110	4	16513	120	1 Timed, 1 Untimed	Grounded Polarized	Heavy Duty Appliance Timer with cover to hide dial	15 Minutes	15A	15A	1800W	

NOTE: "▲" = Indicates outlet location.



MECHANICAL

24 Hour Indoor Plug-In Timer

600B & SA200 Series

APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Multiple outlets for holiday lighting.

FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- Manual Switch: ON or TIMER mode.
- SA215:
 - Power Cord: 18" Length
 - Includes Ground Stake



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS ▲	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	RATING					ELECTRONIC BALLAST (LED)	MOTOR
									RESISTIVE	INDUCTIVE	INCANDESCENT	TUNGSTEN			
602B	1	cULus	16106	125	2	Grounded	Outdoor Lighting Timer	30 minutes	15A			500W	500VA	1/3HP	
SA205	2	cETLus	16534	125	1 Timed 1 Untimed	Grounded	Landscape Timer	15 Minutes	15A	15A	1800W	1800W		1/2HP	
SA215	3	cETLus	16540	125	6	Grounded	Holiday Décor Stake Timer	30 minutes	15A			1250W		1/2HP	
NOTE: "▲" = Indicates outlet location.															

MECHANICAL

Outdoor Photo Plug-In Timer

650B Series

APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Multiple outlets for holiday lighting.



FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- Manual Switch: ON or TIMER mode.
- Power Cord: 6.5" length.

CAT. NO.	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	GENERAL PURPOSE	RATING					ELECTRONIC BALLAST (LED)	MOTOR
								RESISTIVE	TUNGSTEN					
652B	16108	125	2	Grounded	Light Activated Outdoor Lighting Timer	Turns on at Dusk and countdown Off 2, 4, 6 or 8 hours later	15A	15A	1000W			500VA		1/3HP, TV-5

NOTE: "▲" = Indicates outlet location.

MECHANICAL

24 Hour In-Wall Time Switch

711A Series



SPECIFICATIONS

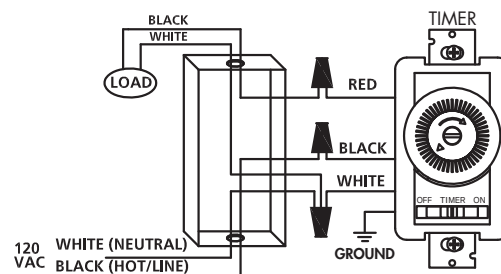
- Input Voltage: 125VAC, 60Hz
- Terminal Range: #14AWG.
- Operating Temperature: 32 °F to +104 °F (0 °C to +40 °C).

APPLICATIONS

- Porch or patio, doorway, pool.
- Outdoor security lighting.

FEATURES

- **Scheduling:** Minimum ON setting is 30 minutes. Dial has 48 captive trippers.
- **Bypass Switch:** Slide switch for ON, OFF, or TIMER (automatic) operation.
- **Vacation Mode:** Set timer OFF with no change of tripper settings.
- **Wiring:** Requires a neutral.
- **Clock Format:** AM/PM marked on dial.
- **Wall Plate:** Supplied with single gang wall plate.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60 Hz	COLOR	GENERAL PURPOSE	RATING		
					RESISTIVE	TUNGSTEN	MOTOR
711A	10114	125	White	15A	15A	1250W	1/2HP

MECHANICAL

24 Hour In-Wall Time Switch

701B Series



SPECIFICATIONS

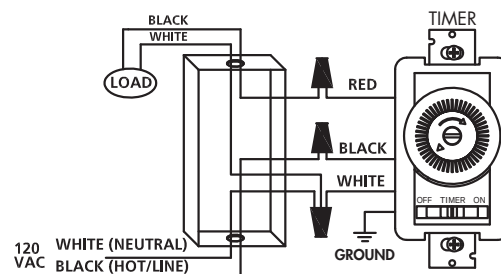
- Input Voltage: 125VAC, 60Hz
- Terminal Range: #14AWG.
- Operating Temperature: 32 °F to +104 °F (0 °C to +40 °C).

APPLICATIONS

- Porch or patio, interior lighting.
- Pool, entryway lighting.

FEATURES

- **Scheduling:** Minimum ON setting is 30 minutes. Dial has 48 captive trippers.
- **Flexible:** Removable dial allows installation in multi-gang boxes with decorator style wall plates.
- **Bypass Switch:** Slide switch for ON, OFF, or TIMER (automatic) operation.
- **Vacation Mode:** Set timer OFF with no change of tripper settings.
- **Wiring:** Requires a neutral.
- **Clock Format:** AM/PM marked on dial.
- **Wall Plate:** Supplied with single gang decorator wall plate.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60 Hz	COLOR	GENERAL PURPOSE	RATING			
					RESISTIVE	TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
701B	10121	125	White	20A	20A	1500W	500VA	1HP

MECHANICAL

Auto OFF Springwound In-Wall Timer A500 Series



SPECIFICATIONS

- Input Voltage: 125/250/277VAC, 50/60Hz
- Terminal Range: #12AWG.
- Operating Temperature: 32 °F to +122 °F (0 °C to +50 °C).

APPLICATIONS

- Whole house fans, indoor/outdoor lighting.
- Bathroom fans and lights, self storage.

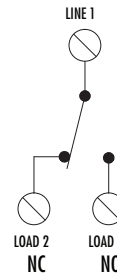
FEATURES

- **Variable Timing:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.
- **Hold Feature:** Some models have position for constant ON.
- **Easy-Set:** No adjustments. Just wire and go!
- **Easy Wiring:** No neutral required. Great for retrofit! Use as single or in multi-gang box with no de-rating.
- **Switch Type:** SPDT "2 in 1" contacts wire as SPST also. Can wire normally on and countdown while off.
- **Color:** Ivory, Light Almond, White.
- **Wall Plate:** Fits standard or decorator style wall plates, see below (not included).
- **Caution:** This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

USE FOR SPST



USE FOR SPDT



CAT. NO.	UPC CODE	HOLD FEATURE	COLOR
15 Minutes Maximum			
A515MH	15020	With Hold	Ivory
A515MHW	15120		White
A515M	15013	No Hold	Ivory
A515MW	15113		White
A515MA	15127		Light Almond
30 Minutes Maximum			
A530MH	15021	With Hold	Ivory
A530MHW	15121		White
A530M	15014	No Hold	Ivory
A530MW	15114		White
A530MA	15128		Light Almond
60 Minutes Maximum			
A560MH	15022	With Hold	Ivory
A560MHW	15122		White
A560M	15015	No Hold	Ivory
A560MW	15115		White
2 Hours Maximum			
A502HHW	15123	With Hold	White
A502H	15016	No Hold	Ivory
A502HW	15116		White
6 Hours Maximum			
A506HHW	15125	With Hold	White
A506H	15018	No Hold	Ivory
A506HW	15118		White
12 Hours Maximum			
A512HH	15026	With Hold	Ivory
A512HHW	15126		White
A512H	15019	No Hold	Ivory
A512HW	15119		White

TYPE	VOLTAGE (VAC)	RATINGS
Resistive	125	20A
	250	10A
	277	10A
Inductive	125	20A
	250	10A
	277	10A
Tungsten	125	7A
	250	2HP
Motor	125	1HP
	250	2HP

MECHANICAL

Commercial Auto OFF Springwound In-Wall Timer

C500 Series



SPECIFICATIONS

- Input Voltage: 125/250/277VAC, 50/60Hz
- Terminal Range: #12AWG.
- Operating Temperature: 32 °F to +122 °F (0 °C to +50 °C).

APPLICATIONS

- Ventilating fans, HVAC, whirlpools.
- Self storage, motors, pumps.

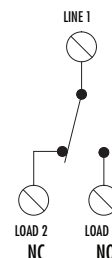
FEATURES

- **Variable Timing:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.
- **Hold Feature:** Some models have position for constant ON.
- **Easy-Set:** No adjustments. Just wire and go!
- **Easy Wiring:** No neutral required. Great for retrofit!
- **Switch Type:** SPDT "2 in 1" contacts wire as SPST also, except C460M and C412H are DPST. Can wire normally on and countdown while off.
- **Color:** Metal-brushed aluminum.
- **Wall Plate:** Includes real metal wall plate with screw mounting, to add extra security for commercial applications.
- **Caution:** This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

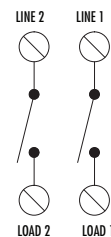
USE FOR SPST



USE FOR SPDT



USE FOR DPST

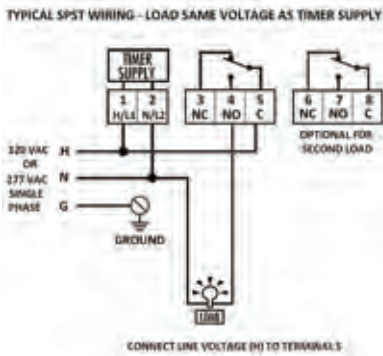


CAT. NO.	UPC CODE	HOLD FEATURE
15 Minutes Maximum		
C515M	15501	No Hold
30 Minutes Maximum		
C530M	15503	No Hold
60 Minutes Maximum		
C560M	15505	No Hold
C560MH	15506	With Hold
C460M*	15011	No Hold (*DPST Switch type.)
2 Hours Maximum		
C502H	15507	No Hold
6 Hours Maximum		
C506H	15511	No Hold
12 Hours Maximum		
C512H	15513	No Hold
C512HH	15514	With Hold
C412H*	15010	No Hold

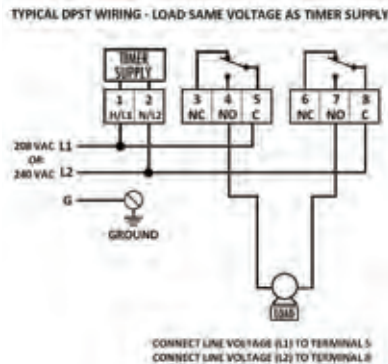
TYPE	VOLTAGE (VAC)	RATINGS
Resistive	125	20A
	250	10A
	277	10A
Inductive	125	20A
	250	10A
	277	10A
Tungsten	125	7A
Motor	125	1HP
	250	2HP

MECHANICAL Wiring Diagrams

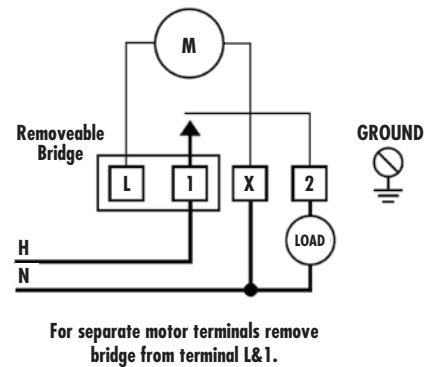
TU40 Series



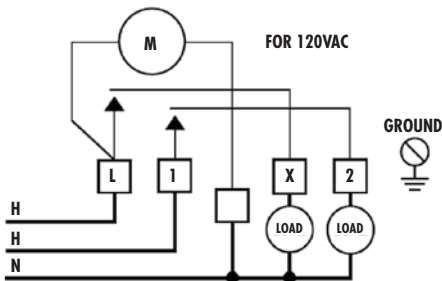
TU40 Series



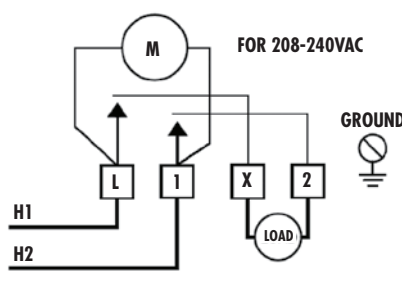
1101/1102



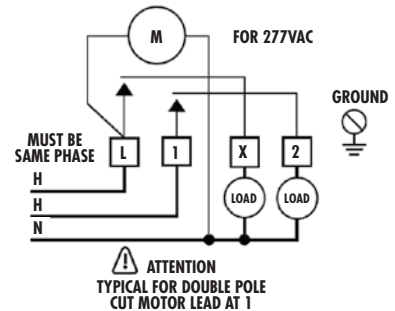
1103



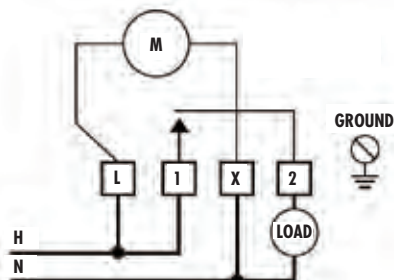
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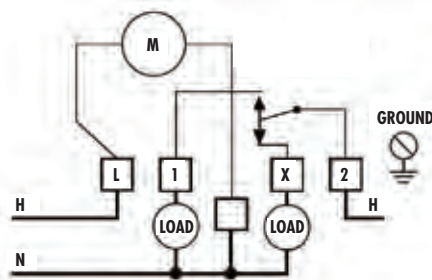
1104



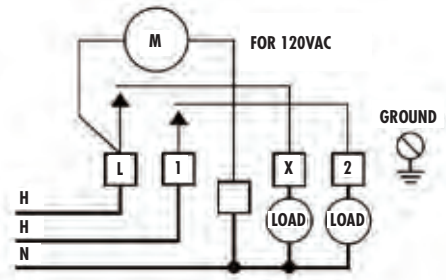
7100/7102



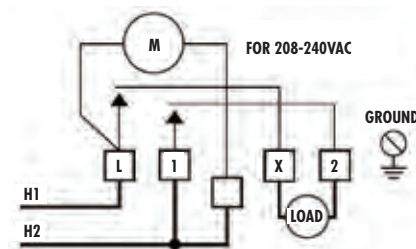
7120/7122



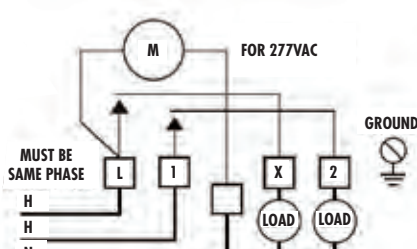
7200



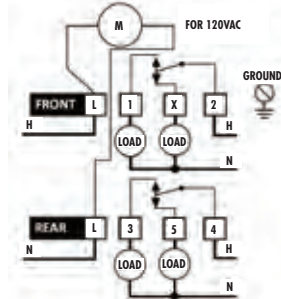
7202



7202

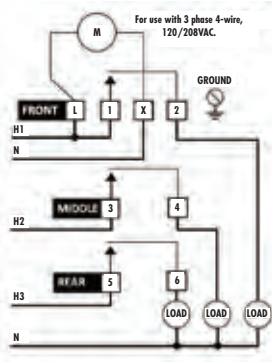


7220

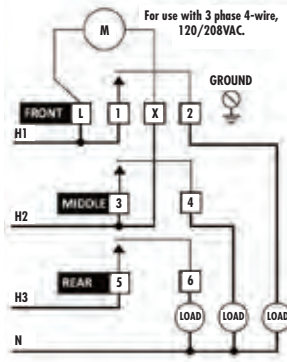


MECHANICAL Wiring Diagrams

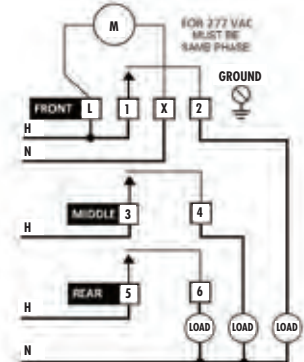
7300



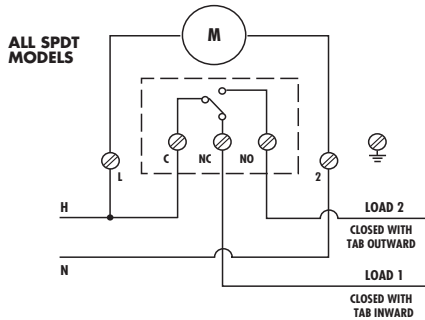
7302



7302

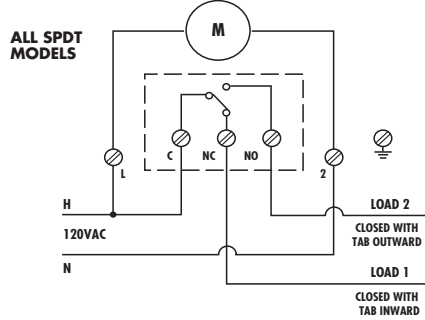


8000 Series Duty Cycle



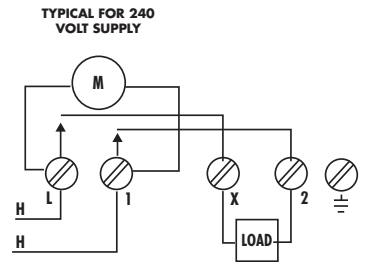
W100

8000 Series Repeating Variable Cycle

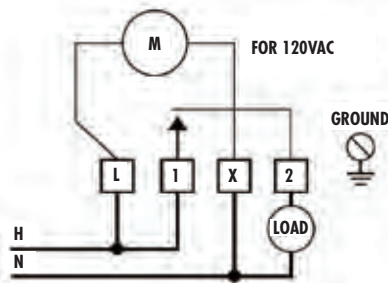


W120

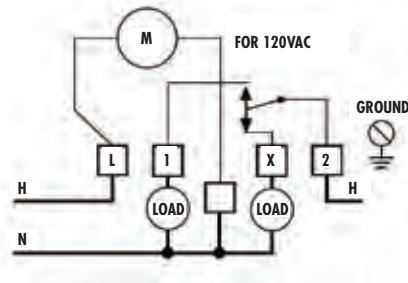
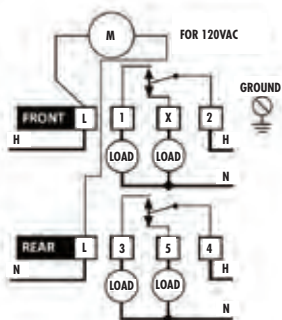
WH2B



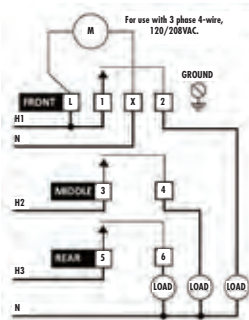
W200



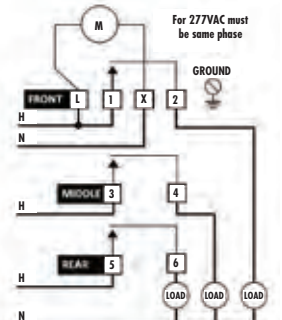
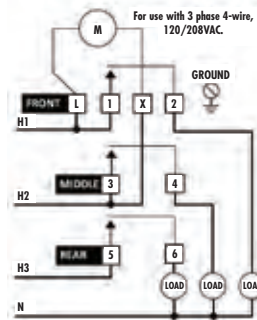
W220



W300

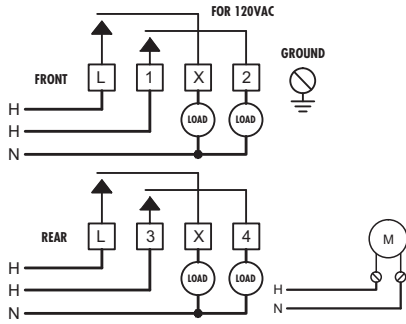


W302

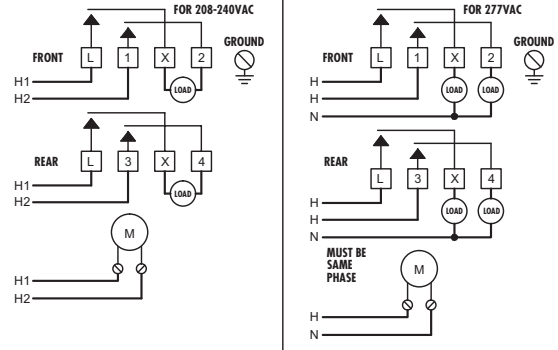


MECHANICAL Wiring Diagrams

W400

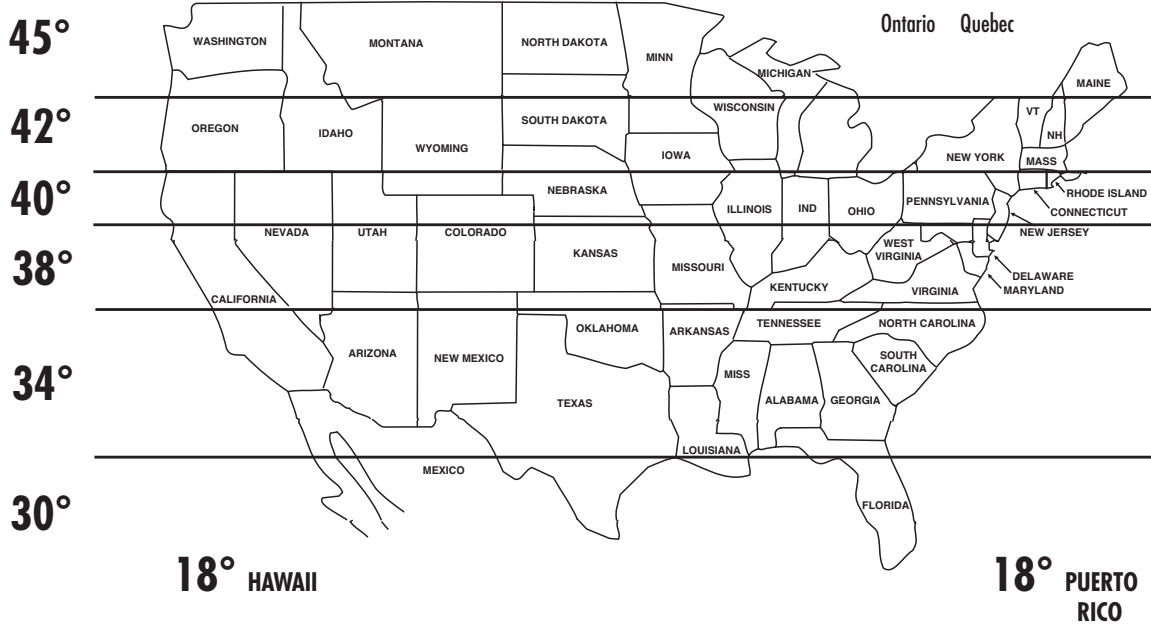


W402

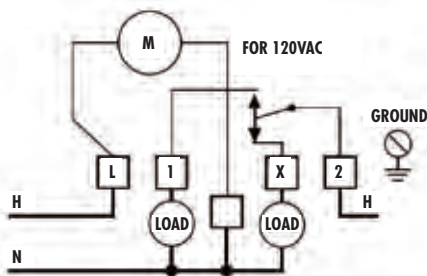


ASTRONOMIC LATITUDE ZONES

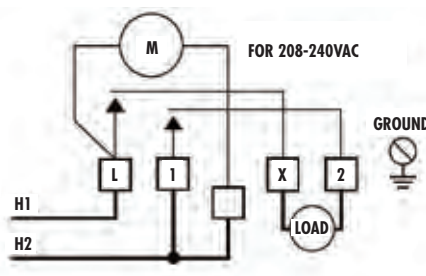
British Columbia Alberta Saskatchewan Manitoba



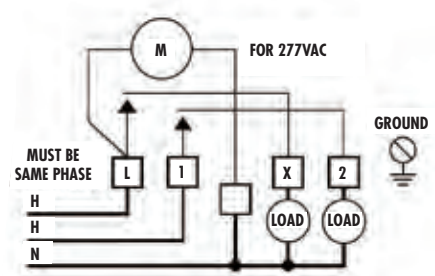
7120Z



7202Z

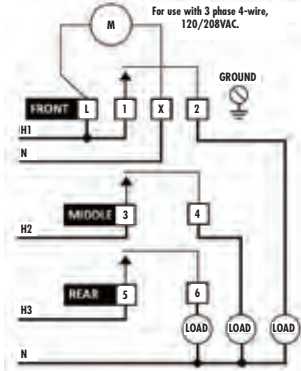


7202Z

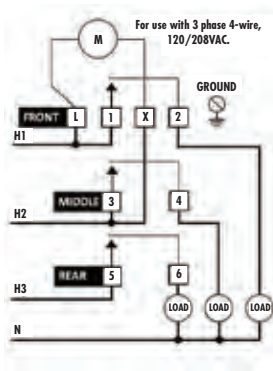


MECHANICAL Wiring Diagrams

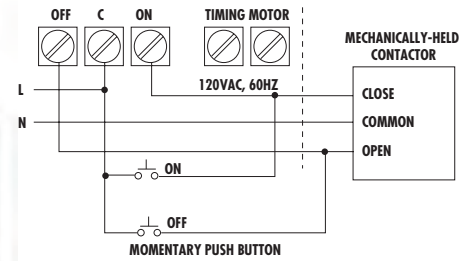
7300Z



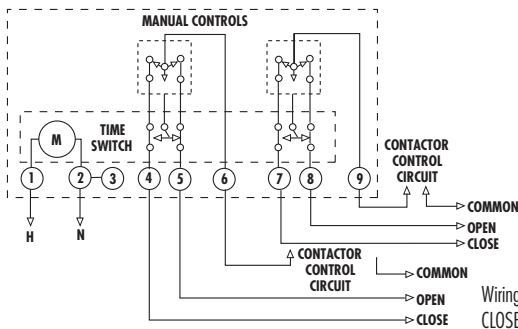
7302Z



1800 Series

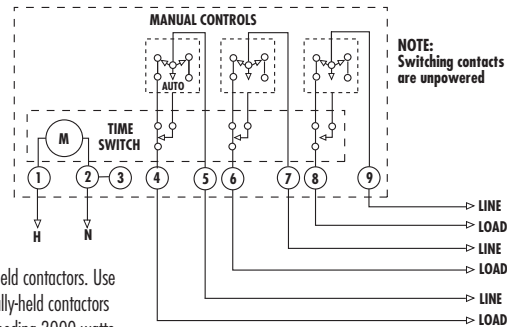


TZ/TW220L



Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

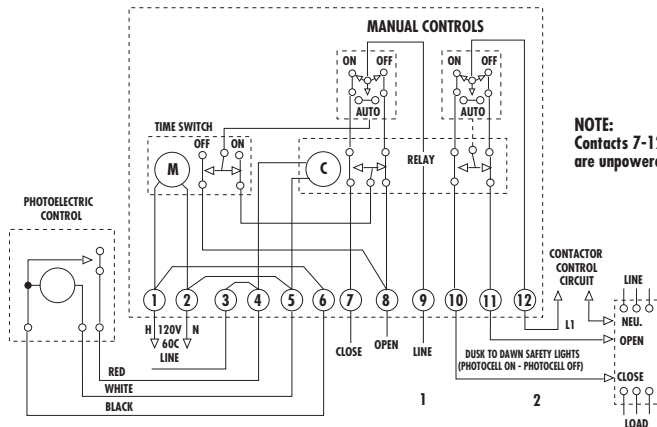
TZ/TW300L



When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.

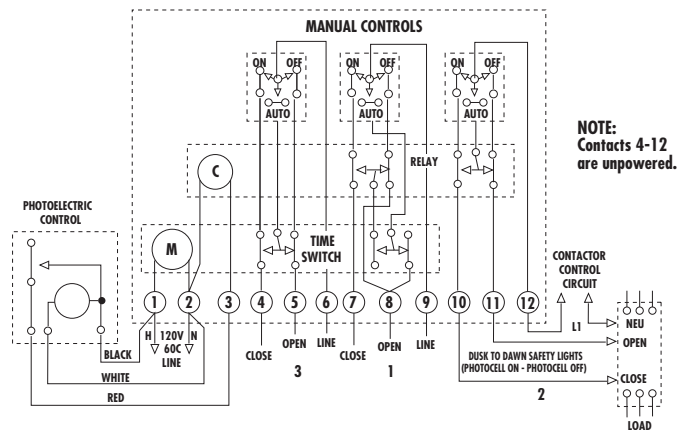
T920L

ONLY CIRCUITS 1 AND 2 ARE INCLUDED IN T920L



T930L

ALL 3 CIRCUITS ARE INCLUDED IN T930L



NOTE 1: All models designed to control mechanically-held and magnetic contactors, when wired in accordance with manufacturers recommendations. Contacts are unpowered control circuits rated for 24-277V contactor coils. See notes on wiring schematics.

NOTE 2: For momentary Contact of contactor coils, use TORK Model SMC-3D, in our Digital Controls Catalog.



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CAUTION: Before wiring and servicing, power must be removed from the equipment. It controls the equipment. Replace this panel.

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TORK[®] DIGITAL

DIGITAL TIMERS QUICK REFERENCE GUIDE

	DTU40 DTWH40	EH20C	SA300	E-PB	E	EW	EWZ	DG	DGM	DWZ	DTS
Page No.	355	356	357	358	358	359	360	362	362	363	364
Number of Channels	1	1	1	1	1 or 2	1 or 2	1 or 2	1 or 2	1	1 or 2	1, 2 or 4
ON/OFF Set Points	7 pair	14	1 pair	20	20	20	20	56	56	99	99
365 Day/7 Day Scheduling	7 day	7 day	7 day	24 hour	24 hour	7 day	7 day	7/365 day	7/365 day	7/365 day	7/365 day
Automatic Daylight Savings Adjustment	Manual	Yes	Manual	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Leap Year		Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Individual Holiday Schedules										24	24
Block Holiday		Yes					20 EWZ201C	9	9		
Season Scheduling											4
 (Astronomic)			ZipSet				Yes			Yes	
Photosensor Input											
Remote Override Input											
Signal/Pulse Duration											Yes
Momentary for Contactors					Option	Option	Option		Yes		
Duty Cycle											
31 Day Cycle											
Manual Override	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Clock Format	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	12/24	12/24	12/24	12/24
Power Outage Backup	Rechargeable Battery	4 day Super Capacitor	Battery	4 day Super Capacitor	4 day Super Capacitor	4 day Super Capacitor	4 day Super Capacitor	7 day Super Capacitor	7 day Super Capacitor	7 day Super Capacitor	7 day Super Capacitor
Schedule Retention without power	Battery	Permanent	Battery	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent
Staggered Start					Yes	Yes	Yes	Yes	Yes		Yes
Memory Module											
Computer Programming Software											
Output Contacts: Amps Resistive or General Purpose	40A	40A	40A	30A	40A	40A	40A	20A	20A	30A	30A
Contact Type: Dry Unpowered	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voltage Input AC	120/208-240/277	120-277	120 or 120/277	120	120-277	120-277	120-277	120-277	120-277	120/208-240/277	120/208-240/277
Other Voltage Inputs Available											

DIGITAL TIMERS QUICK REFERENCE GUIDE

	LIGHTING CONTROLS						CYCLE - SIGNAL TIMER			
	DZS	DZM	ELC74/78/712	DGU	DGUM	DGLC	DLC400	DG	DGS	DIN
Page No.	365	366	369	368	368	368	370	372	372	376
Number of Channels	1, 2, or 4	2	4, 8, or 12	1	1	1 or 2	4	1 or 2	1	1 or 2
ON/OFF Set Points	99	99	128	56	56	56	99	56	56	8 pair 3 pair/ch
365 Day/7 Day Scheduling	7/365 day	7/365 day	7/365 day	7/365 day	7/365 day	7/365 day	7/365 day	24 Hour	7 Day	7 Day
Automatic Daylight Savings Adjustment	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Leap Year	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Individual Holiday Schedules	24	24	26				24			
Block Holiday			10	9	9	9				
Season Scheduling	4	4					4			
 (Astronomic)	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Photosensor Input			Yes	Yes	Yes	Yes	Yes			
Remote Override Input			Yes	Yes	Yes	Yes	Yes			
Signal/Pulse Duration	Yes		Yes					Yes	Yes	
Momentary for Contactors		Yes	Yes		Yes					
Duty Cycle			Yes					Yes	Yes	
31 Day Cycle								Yes		
Manual Override	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Clock Format	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	AM/PM
Power Outage Backup	7 day Super Capacitor	7 day Super Capacitor	2 day Capacitor 1 year battery	7 day Super Capacitor	7 day Super Capacitor	7 day Super Capacitor	6 month battery	7 day Super Capacitor	7 day Super Capacitor	8 year battery
Schedule Retention without power	Permanent	Permanent	Battery	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Battery
Staggered Start	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Memory Module	Yes	Yes					Yes			
Computer Programming Software	Yes	Yes					Yes			
Output Contacts: Amps Resistive or General Purpose	30A/20A	30A	20A	20A	20A	20A	30A	20A	20A	16A
Contact Type: Dry Unpowered	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voltage Input AC	120/208-240/277	120/208-240/277	24/120/208 240/277	120-277	120-277	120-277	120/208-240/277	120-277	120-277	120
Other Voltage Inputs Available	12VDC 24VAC		24VAC All Models							

IN-WALL TIMERS QUICK REFERENCE GUIDE

DIGITAL TIMERS		SS700Z	SS721Z	SS720A	SS720Z	SA170
Page No.		386	385	387	387	384
Timer Type		SunSet 7 Day Digital	SunSet 7 Day Digital	7 Day Digital	SunSet 7 Day Digital	Zip-Set™ Digital
Voltage		120/277	120/277	120	120	120
Minimum Settings	ON	1 min.	1 min.	1 min.	1 min.	1 min.
	OFF	1 min.	1 min.	1 min.	1 min.	1 min.
Manual Override		Yes	Yes	Yes	Yes	Yes
		Yes	Yes		Yes	ZipSet
ON/OFF Set Points		10 Pair	10 Pair	7 Pair	7 Pair	1 Pair
Flash Warning						
Audible Warning						
Power Outage Backup		Capacitor	Capacitor	Battery	Battery	Battery
Switch Type		SPST	SPST	SPST	SPST	SPST
Resistive Ratings		15A	16A	15A	15A	15A
LED Ratings		8A	10A			
Neutral Required for Wiring		No	Yes	Yes	Yes	Yes
3-Way Wiring		Yes	Yes	No	No	No

IN-WALL TIMERS QUICK REFERENCE GUIDE

DIGITAL TIMERS		SS403	SS423	SS410	SS	D1060 D212	SS903
Page No.		388	388	388	389	390	404
Timer Type		Auto OFF Digital	Auto OFF Digital	Auto OFF Digital	Auto OFF Electronic	Auto OFF Electronic	Code Switch
Voltage		120/277	120/277	24	24/120/208-240/277	120	120/277
Minimum Settings	ON	5 min. - 24 hr.	5 min. - 24 hr.	5 min. - 24 hr.	1 min. - 18 hr.	10-60 min., 2-12 hr.	1 min.
	OFF	5 min.	5 min.	5 min.	1 min.	10 min.	1 min.
Manual Override							Yes
							
ON/OFF Set Points							10 pair
Flash Warning		Yes	Yes	Yes	Yes		Yes
Audible Warning		Yes	Yes	Yes	Yes		
Power Outage Backup							Capacitor
Switch Type		SPST	SPST	SPDT	SPST or SPDT	SPST	SPST or Momentary
Resistive Ratings		15A	15A	1A	4A or 7.5A	15A	15A
LED Ratings		1200W	1200W				8A
Neutral Required for Wiring		No	Yes	Yes	No	Yes	No
3-Way Wiring		Yes	Yes	Yes	SS13 Yes	No	Yes

DIGITAL

7 Day Time Switch

Universal Multi-Voltage & Water Heater Control DT Series



APPLICATIONS

DTU40

- Pumps, motors, fans.
- Signs and lighting.
- Water heaters.
- Heating and air conditioning.

DTWH40

- Water Heaters.
- This timer turns OFF when rates are high and turns OFF when no one is home.

FEATURES

- **Scheduling:** 7 On & Off Pairs Of Set Points For Individual Programs On Each Day Of The Week. Minimum Setting Is 1 Minute.
- **Daylight Saving:** Manual Button Push For One Hour Adjustment.
- **Manual Override:** Until The Next Regularly Scheduled On Or Off, Automatic Operation Then Resumes.
- **External Manual Override:** DTWH40 Only On Clear Door. Override Without Opening Case.
- **Random Mode:** Varies On And Off Times To Create "Lived-In" Look When Away.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Battery Retains Time And Schedule.
- **Standards:** Listed UL60730 (Formerly UL917).

SPECIFICATIONS

- **Input Voltage:** 120/208-240/277 VAC, 50/60 Hz (Auto Detection). DTWH40 Is 120/240VAC 50/60Hz (Auto Detection).
- **Terminal Range:** #8 - #18AWG.
- **Operating Temperature:** -31 °F To 116 °F (-35 °C To +47 °C).
- **Power Consumption:** 6Va Max.
- **Enclosure:** DTU40 Polycarbonate Indoor/Outdoor Nema 3R. DTWH40 Polycarbonate Indoor Nema 1 Enclosure With Clear Cover. Both With Lockable Hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
DTU40	24004	120/208-240/277	1	DPDT
DTWH40	24005	120/240	1	DPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
Resistive	120-277	40A	30A
Inductive	120-277	30A	15A
Ballast	120	30A	10A
	277	20A	10A
Tungsten	120	15A	
Motor	120	1HP/30FLA/90LRA	1/4HP/12FLA/30LRA
	240	2HP/20FLA/60LRA	1/2HP/12FLA/33LRA
Pilot duty	120	720VA	290VA
	240	720VA	260VA
Resistive	28VDC	20A	
Max above 104°F	120-277	30A	

DIGITAL 7 Day Time Switch

Water Heater Control with Summer Load Shed EH20C



APPLICATIONS

- Electric water heater timers for residential or commercial.

FEATURES

- **Pre-Programmed:** Unit preset for daily OFF time from 12:00am to 4:00am daily.
- **Summer Load Shed:** Additional OFF time from 3:00pm to 7:00pm during Summer time (6/1 to 9/30) annually to avoid peak usage.
- **Scheduling:** Additional 14 ON or OFF set points for individual programs for each day of the week. Minimum setting 1 minute.
- **Holiday Schedule:** Extend to the load shed date throughout the year or preset extra load shed schedules while on vacation.
- **Manual Override:** Until the next regularly scheduled ON or OFF. Override during pre-programmed times limited to 60 minutes per day.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Lithium battery. Non-rechargeable with 8 year expected life.
- **Standards:** Listed UL917.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection).
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:** Indoor/Outdoor NEMA 3R Polycarbonate with locking hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50-60Hz	OUTPUT CONTACTS
EH20C	82314	120-277	DPST

TYPE	VOLTAGE (VAC)	RATING
General Purpose	120-277	40A
Inductive	120-277	40A
Ballast	120-277	720VA
Motor	120	1HP
	208	1 1/2HP
	240-277	2HP

DIGITAL

Zip-Set™ Time Switch

Astronomic Digital Control

SA300 Series



APPLICATIONS

- Outdoor lighting.
- Electric motors.
- Indoor lighting or signs.

FEATURES

- **Zip-Set:** Fast and easy. Just enter area code and timer adjusts to your time with preset program of Sunset ON and time off program.
- **Scheduling:** One On/Off set point pair is active at a time. Only one schedule may be active at a time: Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.
- **Manual Daylight Saving:** Simple switch adjustment.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Random Feature:** Varies on time +/-90 minutes each day for lived in look.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Replaceable batteries

SPECIFICATIONS

- **Input Voltage:** 120VAC, 60Hz
- SA400 120/277VAC, 60Hz
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** 32 °F to +100 °F (0 °C to +37 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:** Indoor Metal with locking hasp.
SA400 Outdoor Metal with locking hasp.
(See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50-60Hz	OUTPUT CONTACTS
SA300	16546	120	SPST
SA306	16549	120	DPST
SA400	16552	120/277	SPST

TYPE	VOLTAGE (VAC) 60Hz	RATING
Resistive	120*	40A
Inductive	120*	40A
Tungsten	120*	40A
Incandescent	120*	40A
Motor	120	1 1/2HP
*SA400	120/277	

DIGITAL 24 Hour Time Switch Multipurpose Control E & E-PB Series



APPLICATIONS

- Signs, air conditioning, lighting.
- Sump pumps, ventilating fans.

FEATURES

- **Scheduling:** 20 ON/OFF set points repeat each day. Minimum setting 1 minute.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Momentary Option:** For mechanically held contractors: Model E201B only. Configure with simple jumper change for single-channel momentary operation.
- **Standards:** Listed UL917
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:**
 - E Series: 120-277VAC, 50/60Hz (automatic detection)
 - E-PB Series: 120VAC, 50/60Hz
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
E101B	82401	120-277	1	SPST
E103B	82411	120-277	1	DPST
E120B	82406	120-277	1	SPDT
E201B	82466	120-277	2	SPST
E101PB	82461	120	1	SPST

TYPE	E101B, E103B, E201B		E120B		E101PB	
	VOLTAGE (VAC)	RATING NO	RATING NO	NC	VOLTAGE (VAC)	RATING NO
General Purpose	120-277	40A	30A	30A	120/240	30A
					277	12A
Inductive	120-277	40A	30A	30A	120/240	30A
					277	12A
Ballast	120	30A	30A	10A	120	20A
	208-277	20A	20A	10A	277	6A
Tungsten	120	15A	15A	2A	120	5A
Pilot Duty	120-277	720VA	720VA	720VA	120-240	470VA
					277	690VA
Motor	120	1HP	1HP	1HP	120	1HP
	208	1 1/2HP	1 1/2HP	1 1/2HP	240	2HP
	240-277	2HP	2HP	2HP	—	—
Resistive	28VDC	30A	30A	30A	28VDC	20A
Electronic Ballast (LED)	277	16A	16A	—	277	16A

DIGITAL

24 Hour or 7 Day Time Switch

Multipurpose Control

EW Series



APPLICATIONS

- Outdoor signs.
- Lighting security.
- Heating and air conditioning.

FEATURES

- **Scheduling:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Momentary Option:** For mechanically held contractors; Model EW201B only. Configure with simple jumper change for single-channel momentary operation.
- **Standards:** Listed UL917
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
 - Polycarbonate Indoor/Outdoor NEMA 3R.
 - Suffix -C plastic clear cover Indoor/Outdoor NEMA 3R.
 - Suffix -Y metal Indoor enclosure NEMA 1.
 - All with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT DRY CONTACTS
EW101B	82431	120-277	1	SPST
EW103B	82441	120-277	1	DPST
EW120B	82436	120-277	1	SPDT
EW201B	82467	120-277	2	SPST
EW101B-Y	82249	120-277	1	SPST
EW103B-C	82253	120-277	1	DPST
EW103B-Y	82255	120-277	1	DPST
EW120B-C	82437	120-277	1	SPDT
EW120B-Y	82261	120-277	1	SPDT
EW201B-Y	82299	120-277	2	SPST

TYPE	EW101B, EW103B, EW201B		EW120B		
	VOLTAGE (VAC)	RATING NO	VOLTAGE (VAC)	NO	RATING NC
General Purpose	120-277	40A	120-277	30A	30A
Inductive	120-277	40A	120-277	30A	30A
Ballast	120	30A	120	30A	10A
	208-277	20A	208-277	20A	10A
Tungsten	120	15A	120	15A	2A
Pilot Duty	120-277	720VA	120-277	720VA	720VA
Motor	120	1HP	120	1HP	1HP
	208	1 1/2HP	208	1 1/2HP	1 1/2HP
	240-277	2HP	240-277	2HP	2HP
Resistive	28VDC	30A	28VDC	30A	30A
Electronic Ballast (LED)	277	16A	277	16A	—

DIGITAL Sunset Time Switch Astronomic Lighting Control EWZ Series



APPLICATIONS

- Outdoor signs.
- Lighting security.
- Heating and air conditioning.

FEATURES

- **Scheduling:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Standards:** Listed UL917
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp. (See Pages 464-468 For Dimensions).
- Suffix -MB without enclosure and includes mounting bracket.
- Options:**
- Suffix -Q Quartz crystal timing. Maintains accurate timing where 50/60 Hz is not consistent such as on-site generator produced power. Consult factory for minimum order size.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

EWZ101-MB



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT DRY CONTACTS
EWZ101	82470	120-277	1	SPST
EWZ120	82471	120-277	1	SPDT
EWZ101-MB	82263	120-277	1	SPST
EWZ120-MB	82275	120-277	1	SPDT

TYPE	EWZ101, EWS103, EWZ201		EWZ120		
	VOLTAGE (VAC)	RATING NO	VOLTAGE (VAC)	NO	RATING NC
General Purpose	120-277	40A	120-277	30A	30A
Inductive	120-277	40A	120-277	30A	30A
Ballast	120	30A	120	30A	10A
	208-277	20A	208-277	20A	10A
Tungsten	120	15A	120	15A	2A
Pilot Duty	120-277	720VA	120-277	720VA	720VA
Motor	120	1HP	120	1HP	1HP
	208	1 1/2HP	208	1 1/2HP	1 1/2HP
	240-277	2HP	240-277	2HP	2HP
Resistive	28VDC	30A	28VDC	30A	30A
Electronic Ballast (LED)	277	16A	277	16A	—

DIGITAL SunSet Time Switch

Two Channel Astronomic Lighting Control EWZ201C Series



APPLICATIONS

- Outdoor signs.
- Lighting security.
- Heating and air conditioning.

FEATURES

- **Three Contact Settings:**
 - Two- Channel: Factory default operates with two independent SPST contacts.
 - Double Pole Option: Software allows option for single channel DPST setting.
 - Momentary Option: For mechanically held contractors: Configure with simple jumper change for single channel momentary operation.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross switching. Rated for LED lighting drivers and electronic ballasts.
- **Auto-Voltage Detection:** One unit covers all voltages from 120VAC to 277VAC without dip switch to set.
- **Scheduling:** 32 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.
- **Block Holiday:** 20 holiday blocks can be set for individual days or for duration of any number of days.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Standards:** Listed UL917

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
 - **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
 - **Terminal Range:** #8 - #16AWG.
 - **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
 - **Power Consumption:** 6VA Max.
 - **Enclosure:**
 - Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp.
 - Suffix -MB without enclosure and includes mounting bracket.
- (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT DRY CONTACTS
EWZ201C	82451	120-277	2	SPDT
EWZ201C-MB	82452	120-277	2	SPDT

TYPE	VOLTAGE (VAC) 50/60Hz	RATING
Resistive	120-277	30A
	28VDC	30A
Ballast	120	30A
	208-277	20A
Electronic Ballast/LED	120-277	16A
Pilot Duty	120-277	720VA
Motor	120	1HP
	208	1 1/2HP
	240-277	2HP

DIGITAL 365/7 Day Time Switch Multipurpose Control DG100A Series



APPLICATIONS

- Indoor/outdoor lighting, HVAC equipment.
- School warning and other, traffic lights.
- Water heaters in offices, churches and factories.

FEATURES

- **Scheduling:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Momentary Contact:** DGM100A has 2 second contact closures for ON & OFF control of mechanically held contactors or latching relays.
- **Block Holiday:** 9 holiday blocks can be set for individual days or for duration of any number of days.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #12 - #18AWG.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to +55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
 - Noryl® Indoor/Outdoor NEMA 3R.
 - Suffix -Y metal Indoor enclosure NEMA 1.
 - All with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT DRY CONTACTS
DG100A	82208	120-277	1	DPDT
DG200A	82209	120-277	2	SPDT
DGM100A*	82210	120-277	1	SPDT Momentary
DG100A-Y	82221	120-277	2	DPDT
DGM100A-Y*	82222	120-277	1	SPDT Momentary

*No Electronic Ballast (LED) Rating

TYPE	VOLTAGE (VAC)	RATING	
Resistive	24-277	20A	10A
Ballast	120-277	20A	10A
Tungsten	120	15A	—
Pilot Duty	120	720VA	290VA
	240	720VA	360VA
Motor	120	1HP	1/4HP
	240	2HP	1/2HP
Resistive	28VDC	20A	10A
Electronic Ballast (LED)	277	16A	—

DIGITAL

365/7 Day SunSet Time Switch

Astronomic Lighting Control

DWZ Series



APPLICATIONS

- Outdoor lighting.
- Security lighting.
- Parking lot lighting.
- Canopy lighting.

FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10°-60° Northern or Southern latitudes. Can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.
- **Holidays:** 1 to 24 individual dates.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic compensation scheduled ON or OFF, automatic operation then resumes.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 Hour Format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Input Voltage:** 120/208-240-277VAC, 50/60Hz.
- **Terminal Range:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to 70 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:**
- Noryl® Indoor/Outdoor NEMA 3R.
- With lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT DRY CONTACTS
DWZ100B	82189	120/208-240/277	1	DPDT
DWZ200B	82098	120/208-240/277	2	SPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	240-277	30A	30A
Ballast	120	30A	10A
	277	20A	10A
Tungsten	120-277	15A	2A
Pilot Duty	120-277	720VA	720VA
Motor	120	1HP	1HP
	208-277	2HP	2HP
Resistive	28VDC	30A	30A
Electronic Ballast (LED)	277	16A	—

DIGITAL

365/7 Day Time Switch

Seasonal & Signal Control

DTS Series



APPLICATIONS

- Indoor/outdoor lighting, heating and air conditioning.
- Security systems, horns and bells, low voltage lighting.
- Misting and spraying, roof cooling, clock correction systems.
- Process functions.

FEATURES

- **Scheduling:** 99 ON/OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Signal/Pulse Duration:** 2 different settings per channel: each 1-99 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-277VAC, 50/60Hz.
- **Terminal Range:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
- Noryl® Indoor/Outdoor NEMA 3R with lockable hasp.
(See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
DTS100B	82185	120/208 - 240/277	1	DPDT
DTS200B	82186	120/208 - 240/277	2	SPDT
DTS400B	82187	120/208 - 240/277	4	SPDT

TYPE	DTS100B, DTS200B			DTS400B		
	VOLTAGE (VAC)	RATING NO	RATING NC	VOLTAGE (VAC)	RATING NO	RATING NC
General Purpose	204-277	30A	30A	204-277	20A	20A
Ballast	120	30A	10A	120-277	13A	—
	277	20A	10A			—
Tungsten	120-277	15A	2A	120	8A	—
Pilot Duty	120-277	720VA	720VA	120-277	720VA	360VA
Motor	120	1HP	1HP	120/240	1/2HP	1/2HP
	208-277	2HP	2HP			
Resistive	28VDC	30A	30A	—	—	—
Electronic Ballast (LED)	277	16A	—	—	—	—

DIGITAL

365/7 Day SunSet Time Switch

SunSet & Seasonal Control

DZS Series



APPLICATIONS

- HVAC equipment, horns and bells.
- Interior lighting, Electric motors.
- Outdoor lighting and signs.

FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Signal/Pulse Duration:** 2 different settings per channel: each 1-99 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZS series unit.
- **Copy Feature:** Unit can be configured to copy program schedule to multiple memory modules.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-240/277VAC, 50/60Hz.
- **Terminal Range:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to +70 °C).
- **Power Consumption:**
5VA Max: DZS100/200BP.
6VA Max: DZS400BP.
- **Enclosure:**
- Noryl® Indoor/Outdoor NEMA 3R
- With lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
DZS100BP	82182	120/208-240/277	1	DPDT
DZS200BP	82183	120/208-240/277	2	SPDT
DZS400BP	82184	120/208-240/277	4	SPDT
USB-MMP	82196	—	Memory Module Programmer	Includes software

TYPE	DZS100BP, DZS200BP			DZS400BP		
	VOLTAGE (VAC)	NO	RATING NC	VOLTAGE (VAC)	NO	RATING NC
General Purpose	204-277	30A	30A	204-277	20A	20A
Ballast	120	30A	10A	120-277	13A	—
	277	20A	10A	120-277	13A	—
Tungsten	120-277	15A	2A	120	8A	—
Pilot Duty	120-277	720VA	720VA	120-277	720VA	360VA
Motor	120	1HP	1HP	120/240	1/2HP	1/2HP
	208-277	2HP	2HP	120/240	1/2HP	1/2HP
Resistive	28VDC	30A	30A	—	—	—
Electronic Ballast (LED)	277	16A	—	—	—	—

DIGITAL

365/7 Day SunSet Time Switch

Momentary Output Astronomic Lighting Control

DZM Series



APPLICATIONS

- Low voltage latching relays.
- Direct wire to mechanically held contactors.

FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZM series unit.
- **Copy Feature:** Unit can be configured to copy program schedule to multiple memory modules.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-277VAC, 50/60Hz.
- **Terminal Range:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to 158 °F (-40 °C to +70 °C).
- **Power Consumption:** 4VA Max.
- **Enclosure:**
- Noryl® Indoor/Outdoor NEMA 3R.
- With lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
DZM200BP	82188	120/208-240/277	2	SPDT Momentary
USB-MMP	82196	—	Memory Module Programmer	Includes software

TYPE	VOLTAGE (VAC)	RATING
Resistive	24-277	20A
Pilot Duty	120-277	720VA

DIGITAL

Photo Input Lighting Control

2 Zone Light Level

LC200 Series



APPLICATIONS

- 24 hour convenience stores, open wall parking structures.
- Large canopies, building perimeters, atriums.
- Use to control two different outdoor lighting circuits utilizing one photocell. Sign lighting can turn ON at one ambient light level while parking lot lighting turns ON at a different light level.

FEATURES

- **Photosensor Input:** EPC1 included.
- **Dual Outputs:** with independent turn-ON adjustment for Stage1 and Stage 2.
- **Light Level Activation:** Turn ON is user settable from 2 to 100 footcandle; Independent light level adjustment for each zone. Turn OFF is a maximum of 2 times turn ON level. Built-in delay OFF of 30 seconds to avoid reaction to lightning or headlights.
- **Switched Input:** Turns off loads. Can be used for photocell ON and time switch OFF operation.
- **Standards:** Listed UL916.

SPECIFICATIONS

- **Input Voltage:** 120/240/277VAC, 50/60Hz.
- **Terminal Range:** Relay #12AWG; input power terminals #14 - #22AWG; TOD/sensor terminals accept #18 - #22AWG.
- **Operating Temperature:** -40 °F to +140 °F (-40 °C to + 60 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:**
 - LC200 includes metal Indoor NEMA 1.
 - All with lockable hasp. (See Pages 464-468 For Dimensions).
- **Other Mountings:** LC200M mechanism only.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

CAT. NO.	UPCCODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
LC200	82111	120/240/277	2	SPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
Resistive	120/240	20A	10A
	277	12A	—
Ballast	120	20A	10A
	240/277	6A	3A
Tungsten	120/240/277	5A	3A
Pilot Duty	120/240	470VA	275VA
	277	690VA	—
Electronic Ballast (LED)	277	16A	—

DIGITAL

365/7 Day SunSet Time Switch

1 & 2 Zone Astronomic Lighting Control For Energy Code
DGU & DGLC Series



APPLICATIONS

INTERIOR LIGHTING

- Open office lighting, hallways.
- Meeting and sales areas, stock room and warehouses.

EXTERIOR LIGHTING

- Signage and store windows.
- Security, parking lots.

FEATURES

- **Scheduling:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Photosensor Input:** Unique push button set-up assures accurate operation with automatic calibration that adjusts for wire size and distance. EPC-A photo sensor is included with the DGLC-A and may be ordered as an option for use with model DGU100A & DGUM100A.
- **Light Level Activation:** Turn ON is user settable from 1 to 100 footcandle; Turn OFF is a maximum of 2 times turn ON level. Each channel has an independent setting. Includes a user settable delay before ON and OFF between 1 - 90 seconds.
- **Remote Override On:** Each channel has independent input for a maintained dry-contact closure. May use TORK model SS410 and TRP-24B for timed override. May use with occupancy sensor with dry contacts as override.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Momentary Contact - DGUM100A:** 2 second contact closure ON & OFF to control mechanically held contactors or latching relays.
- **Block Holiday:** 9 holiday blocks can be set for individual days or for duration of any number of days.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (auto detection).
- **Terminal Range:**
#12 - #18AWG for line/load.
#18 - #26AWG sensor/switch input.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to +55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
- Noryl® Indoor/Outdoor NEMA 3R.
- Suffix -NC Noryl® Indoor/Outdoor NEMA 3R with clear Lexan® cover.
- Suffix -Y metal Indoor enclosure NEMA 1.
- All with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

DGU100A



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT CONTACTS
DGU100A-Y	82211	120-277	1	DPDT
DGUM100A*	82212	120-277	1	SPDT Momentary
DGUM100A-Y*	82224	120-277	1	SPDT Momentary
DGLC100A-NC	82223	120-277	1	DPDT
DGLC200A-NC	82213	120-277	2	SPDT
EPC-A	82112	Accessory Photo Sensor	—	—
SS410	14033	24VAC/24VDC	—	SPDT
TRP-24B	98225	120/277	Transformer Power Pack	SPST

*No Electronic Ballast (LED) Rating

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
Resistive	24-277	20A	10A
Ballast	120-277	20A	10A
Tungsten	120	15A	—
Pilot Duty	120	720VA	290VA
	240	720VA	360VA
Motor	120	1HP	1/4HP
	240	2HP	1/2HP
Resistive	28VDC	20A	10A
Electronic Ballast (LED)	277	16A	—

DIGITAL

365/7 Day SunSet Time Switch

4, 8 & 12 Zone Astronomic Lighting Control For Energy Code ELC Series



APPLICATIONS

- HVAC equipment, Indoor/Outdoor lighting.
- Meets indoor/outdoor lighting energy code requirements.

FEATURES

- **Scheduling:** 128 time based events allow individual programs for each day of the week at a minimum 1 minute apart. Event types include ON, OFF, Duration, or Duty Cycle.
- **Sensor Event:** 32 sensor driven events allow individual programs for each day of the week.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 70° Northern or Southern latitudes. Settings can be offset from both sunset and sunrise times.
- **Universal Input:** 8 inputs may be assigned to any channel. ELC74 includes 4.
- **Switched Input:** Accepts unpowered contact closure from optional momentary or maintained switch for a timed override.
- **Photosensor Input:** Accepts input from optional sensor. EPC-LC (indoor/outdoor) has a range from 0 - 250 foot-candles.
- **Momentary Contact:** May be configured for momentary ON/OFF operation to control latching contactors. The ELC74 operates as a two channel unit. The ELC78 operates as a four channel unit. The ELC712 operates as a six channel unit.
- **Holidays:** 26 holidays may be set using 10 individual dates, 10 month type (last Monday in May), or 6 specific holidays with one of 3 independent holiday schedules.
- **Block Holiday:** 10 holiday blocks can be set for individual days or for duration of any number of days and may use one of 3 holiday schedules.
- **Pulse/Time Duration:** 4 different ON settings from 1 second to 23 hours, 59 minutes, 59 seconds.
- **Duty Cycle:** 4 different ON and OFF patterns from 1 second to 23 hours, 59 minutes, 59 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Remote Override:** Universal input may be programmed for timed override from a momentary or maintained dry contact switch.
- **Manual Override:** Keyboard button control until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Staggered Start:** Optional stagger up time between channels, after a power outage; selectable from 5 seconds, 15 seconds, 30 seconds, 1 minute, 5 minutes, 10 minutes, and 15 minutes.
- **Clock Format:** AM/PM or 24 hour format.
- **Power Outage Backup:** The program and time of day are maintained for a minimum of 2 days by means of a capacitor. After two days, a lithium battery takes over and provides a minimum accumulated time of 1 year. The lithium battery should provide over 10 years of protection.
- **Standards:** Listed UL916.

SPECIFICATIONS

- **Timing Accuracy:** Line frequency.
- **Input Voltage:** 24/120/208-240/277VAC, 50/60Hz.
- **Terminal Range:**
#10 - #16AWG for line input.
#10 - #16AWG for load output.
#14 - #22AWG universal input.
- **Operating Temperature:** -20 °F to +140 °F (-29 °C to +60 °C).
- **Power Consumption:** 10VA Maximum.
- **Enclosure:** Metal Indoor NEMA 1 with lockable hasp.
(See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT CONTACTS
ELC74	82523	24/120/208-240/277	4	SPDT
ELC78	82524	24/120/208-240/277	8	SPDT
ELC712	82525	24/120/208-240/277	12	SPDT
EPC-LC	82233	Accessory Photo Sensor	—	—
LCS115M	82082	Accessory Momentary Switch	—	SPST

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	24/120 - 277	20A	15A
Ballast	120-277	20A	20A
Tungsten	120-277	5A	—
Pilot Duty	120-240	470VA	275VA
Motor	120 208-277	1HP 2HP	1/4HP 1/2HP
Electronic Ballast (LED)	277	16A	—

DIGITAL

365/7 Day SunSet Time Switch

4 Zone Astronomic Lighting Control For Energy Code
DLC400BP



APPLICATIONS

Interior Lighting

- HVAC equipment, Indoor/Outdoor lighting.
- Meets indoor/outdoor lighting energy code requirements.

Exterior Lighting

- Signage and store windows.
- Security, parking lots.

FEATURES

- **Configurable Zones:** Simple three position slide switch sets logic for each zone: Time ON/Time OFF, Photo ON/Photo OFF, or Photo ON/ Time OFF.
- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week. Minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. 1. Adjustable 10° - 60° Northern or Southern latitudes. 2. Can be individually offset +/-1-240 minutes from both sunset and sunrise times.
- **Photosensor Input:** EPC2 photo sensor included.
- **Light Level Activation:** Turn ON and OFF level is user settable from 1 to 100 footcandle. Each channel has an independent setting.
- **Remote Override:** Maintained dry contact closure or use TORK Model SS410 for timed override with flash warning before OFF. May use with occupancy sensor as override.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Power Outage Backup:** Permanent schedule retention with memory module. Battery provides real time backup for 6 months cumulative.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZS series unit.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL916.

SPECIFICATIONS

- **Timing Accuracy:** Line frequency.
- **Input Voltage:** 120/208 - 240/277VAC, 50/60Hz.
- **Terminal Range:** #10 - #14AWG
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to + 55 °C).
- **Power Consumption:** 30VA Maximum.
- **Enclosure:** Metal Indoor/Outdoor NEMA 3.
- All with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT CONTACTS
DLC400BP	82191	120/208-240/277	4	SPDT
USB-MMP	82196	Memory Module Programmer	Includes Software	
SS410	14033	24VAC/24VDC	—	SPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	24-277, 30VDC	30A	30A
Ballast	120-277	20A	10A
Tungsten	120	10A	—
Pilot Duty	120-277	720VA	720VA
Electronic Ballast (LED)	277	16A	—



DIGITAL

Lighting Delay Time Control

Flash Warning & Timed Override

LD Series



APPLICATIONS

- Open offices, gymnasiums, warehouses.
- Outdoor recreation courts, user-activated lights with time limits.
- Match with photocontrol and timer to limit hours of use.

FEATURES

- **Maintained Input With Load Warning Blink:** LDS Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDS Series provides 1 second blink then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn off.
- **Maintained Input With Auxiliary Warning:** LDSH Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDSH Series closes a second set of contacts for a user supplied audible or visual warning device. The warning circuit closes for a selected time of 4 seconds (best for audible device or continuous, then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn OFF.
- **Momentary Input:** Provides timed override when time switch input contact is unpowered (timer OFF). When activated during the warning period, load contacts are kept closed and timing starts. Both series can accept momentary input contact closure for ON to start the timing and OFF to end the timing.
- **Timed Override Settings:** User may select override times of 1/2, 1, 1½, 2, 6, 9, or 12 hours. Warning before OFF is always active after override time.
- **Standards:** Listed UL917.

SPECIFICATIONS

- **Input Voltage:** 120/208/240/277VAC, 50/60Hz.
- **Terminal Range:**
#10 - #16AWG for line/load.
#18 - #26AWG switch input.
- **Operating Temperature:** -22 °F to 150 °F (-30 °C to +65 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:**
- Metal Indoor NEMA 1.
- All with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	ENCLOSURE TYPE
LDS	81025	120/208-240/277	SPDT	Mechanism

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	24/240	20A	10A
	277	20A	3A
Ballast	120	20A	10A
	208-277	10A	3A
Tungsten	120-277	5A	3A
Pilot Duty	120/240	470VA	275VA
	277	690VA	—
Resistive	28VDC	20A	10A

DIGITAL

24 Hour or 7 Day Time Switch

Signaling & Duty Cycle

DGS Series



APPLICATIONS

- Signaling.
- Duty Cycle.

FEATURES

- **DG180A & DG280A:** 56 ON & OFF set points provide daily repeated programs. Minimum setting is 1 minute.
- **DGS100A:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Duty Cycle & Signaling:** Two different ON/OFF patterns or signal durations may be programmed. The durations can be up to 23 hours, 59 minutes and 59 seconds in length.
- **Skip Function (24 Hour Units Only):** Each channel can be set for ACTIVE/SKIP operations that alternate from 1 - 31 days. This becomes an effective way to cycle loads on varying days within the month. Using the two-circuit DG280A, two loads can be set to operate on alternate days in a simple manner.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 hour.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #12 - #18AWG.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to + 55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
 - Noryl® Indoor/Outdoor NEMA 3R.
 - All with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT CONTACTS
24 HOUR MODELS				
DG180A	82206	120-277	1	DPDT
DG280A	82207	120-277	2	SPDT
7 DAY MODELS				
DGS100A	82205	120-277	1	DPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
Resistive	24-277	20A	10A
Ballast	120-277	20A	10A
Tungsten	120	15A	—
Pilot Duty	120	720VA	290VA
	240	720VA	360VA
Motor	120	1HP	1/4HP
	240	2HP	1/2HP
Resistive	28VDC	20A	10A

DIGITAL Percentage & Cycle Timers

EJWT & ACT-MA Series

APPLICATIONS

- Poultry and livestock.
- Agriculture or greenhouse, oil well pumping.
- Ventilation, process control.
- Standards: Listed UL916.

FEATURES

- **EJWT – Percentage Timer**
 - 960 time combinations with two dials.
 - Cycle Time Dial sets 32 repeating cycles from 15 seconds to 24 hours.
 - Percentage ON Dial has 32 steps from 0% to 100%.
 - Repeats cycle as long as power is applied.
- **ACT – Cycle Timer**
 - 960 time combinations with two dials.
 - ON time dial sets 30 time steps from 30 seconds to 15.5 minutes.
 - OFF dial has 30 steps time steps from 30 seconds to 15.5 minutes.
 - Repeats cycle as long as power is applied.
 - Hold On or Hold Off positions included.
 - Standards: Listed UL916.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	OUTPUT CONTACTS
EJWT	82513	120-240	SPDT
ACT30MA	82527	120-240	SPDT



SPECIFICATIONS

- Timing Accuracy: 1% of timing range.
- Terminal Range: #12 - #18AWG.
- Operating Temperature: 32°F to +122°F (0°C to + 50°C).
- Power Consumption: 16VA Max.
- Enclosure:
 - Indoor NEMA 4X is standard. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	120-240	20A	10A
Resistive	120-240	20A	10A
Motor	120	1.5HP	1/4HP
	208-240	3HP	1/2HP
Pilot Duty	120/240	470VA	275VA

DIGITAL

Panel Mount Cycle Time Switch

PCT15M



APPLICATIONS

- Oil field pumping stations.
- Poultry & livestock feeding and watering.
- Ventilation, process control.

FEATURES

- **Fixed Timer Cycle:** 15 minutes repeating cycle when unit is powered.
- **Percentage ON:** 1% to 99% increments.
- **Display:** Digital percentage reading.
- **ON Setting:** Hold ON.
- **OFF Setting:** Hold OFF.
- **Power Outage Backup:** Remembers Place In Cycle When Power Resumes.
- **Test Mode:** For temporary ON/OFF cycle verification.
- **Panel Mounting:** 3" diameter back housing retrofits to existing mechanical timer dimensions. Two sets of mounting dimensions to choose from. (See Pages 464-468 For Enclosure Dimensions).
- **Standards:** Listed UL60730 (formerly UL917).

SPECIFICATIONS

- **Timing Accuracy:** 1% of timing range.
- **Terminal Range:**
#14 - #16AWG for line input.
#12 - #16AWG for load output.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 5VA Max.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS
PCT15M	82528	120-240	SPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	120-240	20A	20A
Resistive	120-240	20A	20A
Motor	120	1HP	1/4HP
	240	2HP	1/2HP

DIGITAL Specialty Timers

ON Delay, OFF Delay, Interval Controls
E500T Series



SPECIFICATIONS

- Timing Accuracy: 1% of timing range.
- Input Voltage: 120/240VAC, 60Hz.
- Terminal Range: #12 - #18AWG.
- Operating Temperature: 32°F to +122°F (0°C to + 50°C).
- Power Consumption: 1.6VA Max.
- Enclosure:
 - Indoor NEMA 4X is standard.
 - (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

APPLICATIONS

- Poultry and livestock.
- Agriculture or greenhouse, oil well pumping.
- Ventilation, process control.
- Standards: Listed UL916.

FEATURES

- **E500T – On Delay Timer**
 - Dial sets 30 time delay durations from 5 seconds to 3 hours.
 - External landing switch activated starts delay to ON.
 - Runs until external landing switch turns OFF.
- **E501T – Auto Off Interval Timer**
 - Dial sets 30 time durations from 10 seconds to 12 hours.
 - Start/Stop button or External landing switch starts interval ON.
 - Automatically turns OFF at end of preset time.
 - START/STOP or External landing switch turns OFF.
- **E502T – Off Delay Timer**
 - Dial sets 30 time durations from 5 seconds to 3 hours.
 - External landing switch starts interval ON.
 - Automatically turns OFF at end of preset time.
 - External landing switch turns OFF.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	OUTPUT CONTACTS
E500T	82514	120-240	SPDT
E501T	82515	120-240	SPDT
E502T	82516	120-240	SPDT

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	120-240	20A	10A
Resistive	120-240	20A	10A
Motor	120	1HP	1/4HP
	208-240	2HP	1/2HP
Pilot Duty	120/240	470VA	275VA

DIGITAL

7 Day Time Switch

1 or 2 Channel Timer

DIN Series



APPLICATIONS

- Panel builders, indoor/outdoor lighting.
- Security systems, HVAC equipment.

FEATURES

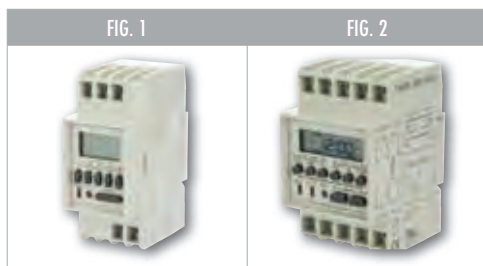
- **Scheduling:** 8 ON and OFF pairs of set points for DIN100B. 4 ON and OFF (CH A) and 3 ON and OFF (CH B) pairs of set points for DIN200B. Individual programs on each day of the week. Minimum setting is 1 minute.
- **Manual Override:** Until the next regular scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Battery retains time and schedule.

SPECIFICATIONS

- **Terminal Range:** #12 - #18AWG
- **Operating Temperature:**
 - DIN100B: 14 °F - 131 °F (-10 °C - +55 °C).
 - DIN200B: 14 °F - 113 °F (-10 °C - +45 °C).
- **Power Consumption:** 4VA Max.
- **Mounting:** DIN rail #50022 (35mm) or flat surface using supplied adapter.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	FIG. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	NO. OF ON/OFF	OUTPUT CONTACTS
DIN100B	1	82192	120	1	8	SPDT
DIN200B	2	82193	120	2	4 Channel A	SPDT
					3 Channel B	

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	120	8A	8A
Resistive	120	16A	16A
Motor (DIN100 only)	120	1/2HP	—

DIGITAL

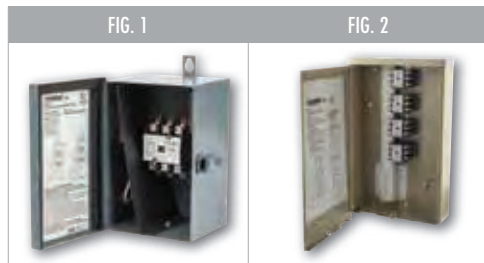
40 Amp Contactors

Increased Amperage & Voltage Switching Panels
5401A Series



APPLICATIONS

- Lighting loads.
- Exhaust fans.
- Electric and hot water heaters.
- Refrigeration and defrosting.



CAT. NO.	FIG. NO.	UPC CODE	COIL VOLTS	NO. OF CONTACTORS	OUTPUT CONTACTS
5401A	1	81019	120	1	3PST
5441A	2	81020	120	4	3PST

FEATURES

- **Contact Ratings:** Can switch up to 40 AMPS per pole from 120VAC to 277V lighting loads, one to three circuits simultaneously.
- **Easy Wiring:** Includes 120 volt control wiring compartment. 5441 has terminal strip pre-mounted for quick connection.
- **Enclosure:** Metal NEMA 1 Indoor enclosure.
(See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

TYPE	VOLTAGE (VAC)	FLA	RATING
Tungsten*	120	—	30A
Ballast*	120/277	—	40A
LED*	120/277	—	40A
Motor (Single Phase)	120	40	3HP
	240	40	7.5HP
Motor (3 Phase)	240	40	10HP
	480	40	20HP
Coil Data: 120VAC @ 60Hz			
c6VA Holding/Seal; 60VA Inrush			
* Ratings for single phase load			

DIGITAL

Accessory

HPS Starter

APPLICATIONS

STARTING AID - For high pressure Sodium lamps

- Designed to operate as a starting aid, for all H.P.S. ballasts from 35 to 400 watts, with lamp voltage of 55 or 100 volts.

FEATURES

STARTING AID

- **Smart Voltage:** Delivers appropriate trigger spikes for lamp ignition, then reduces voltage to good lamps. Continues to feed voltage spikes to old or poorly working lamps.
- **High Grade Material:** All components are sealed with high grade die-electric material to protect against contaminants and other adverse environmental conditions.
- **Easy Installation:** Universal 3 wire design, color coded for ease of installation.



SPECIFICATIONS

Starting Aid

- **Operating Temperature:** -40 °F to +221 °F (-40 °C to +105 °C).
- **Enclosure:** Lexan® Housing, Durable, high temperature.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

CAT. NO.	UPC CODE	VOLTAGE VAC	LAMP VOLTAGE VAC	LAMP WATTAGE	LEAD LENGTH	DESCRIPTION
HPS30	81030	105-347	55 or 100	35W to 400W	9 Inches	High Pressure Sodium Starter

DIGITAL 24 Hour, 7 Day SunSet Timers Indoor Plug-In Timers 400E & SA100 Series

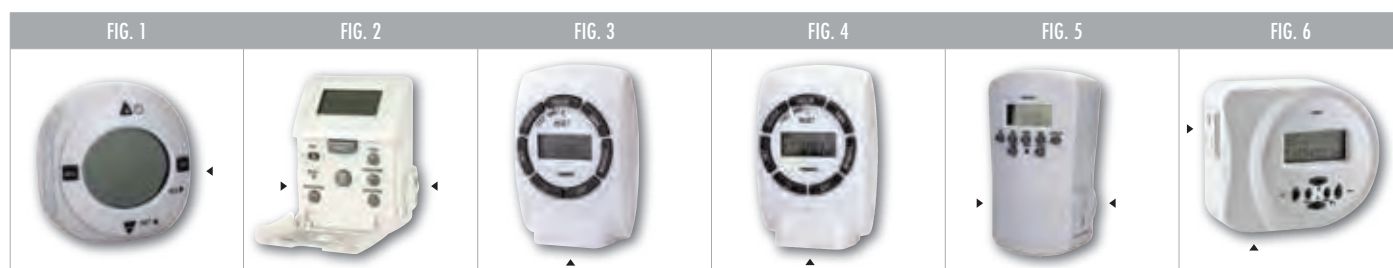


APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Vary schedules daily.
- Give the home a "lived in" look while away.
- Save energy and provide security.

FEATURES

- SA134 & SA130:
 - 24 hour programming.
 - Battery Back-up for power outages.
- 460E, 454E & 455E:
 - 7 day programming.
 - Random feature for lived in look.
 - Manual Daylight Savings.
 - Battery Back-up for power outages.
- SunSet Timer 457Z:
 - Sunset On with 7 day programmable Off or sunrise Off.
 - Random feature for lived in look.
 - Automatic Daylight Savings.
 - Battery Back-up for power outages.
 - Never come home to a dark house.



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS (▶)	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	GENERAL PURPOSE	RATING				
										RESISTIVE	INDUCTIVE	TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
SA134	1	cCSAus	16522	120	1	Polarized	Easy Set 24 hour daily repeat timer	2 On/Off Settings	—	8.3A	—	600W	—	—
SA130	2	cETLus	16519	120	1 Timed 1 Untimed	Polarized	Easy Set Lamp Timer with cover to hide buttons	2 On/Off settings. 1 setting may be activate a time	—	15A	15A	500W	—	1/2HP
460E	3	cULus	16097	125	1	Polarized	Seven Day Programmable	20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs	—	15A 1875W	—	1000W	500VA	1/3HP
454E	4	cULus	16100	125	1	Grounded	Seven Day Programmable	20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs	—	15A 1875W	—	1000W	500VA	1/3HP
455E	5	cULus	16103	120	2	Grounded	Seven Day Programmable	20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs	—	15A 1800W	—	960W	500VA	1/2HP
457Z	6	cCSAus	16016	120	2	Grounded	SunSet™ Timer Dusk to Dawn with automatic daylight savings	20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs	15A	15A	—	1000W	—	—

NOTE: "▲" = Indicates outlet location.

DIGITAL

Wireless Controls

Indoor & Outdoor Outlet Plug-In

SA200 & SA500 Series



APPLICATIONS

- Remotely turn ON/OFF items.
- Control lamps, radios, appliances, outdoor lighting.
- Safety: enter and leave rooms in full light.
- Provide a convenient control from your chair.

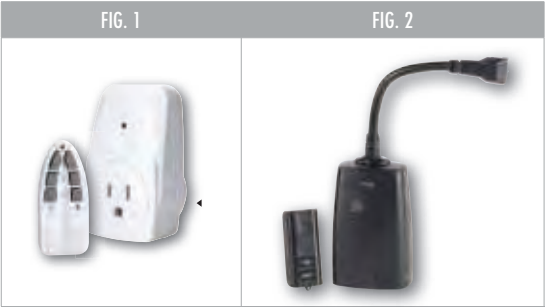
FEATURES

Indoor Remote Outlet - SA500:

- Control indoor outlet up to 50' away.
- Transmitter has 3 pair ON/OFF buttons to allow independent control of 3 receivers.
- Match receiver and outlet with simple dial. No fussy programming.
- Get one for each room. No cross talk.
- Wireless control without moving across room.

Outdoor Remote Outlet - SA230:

- Control indoor outlet up to 50' away.
- Matched receiver and outlet. No programming.
- Transmitter has 1 pair ON/OFF button.
- Wireless control from the comfort of inside.



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS (▶)	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	RATING	
									RESISTIVE	TUNGSTEN
SA500	1	cCSAus	16555	125	1	Grounded	Indoor Remote Controlled Outlet	Manual On/Off with push button transmitter	8A	625W
SA230	2	cCSAus	16564	125	2	Grounded	Outdoor Remote Controlled Outlet	Manual On/Off with push button transmitter	8A	600W

NOTE: "▲" = Indicates outlet location.

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DIGITAL

7 Day Timer Photo Timers

Outdoor & Light Activated Plug-In

600E & SA200 Series



APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON with light activated timer.

FEATURES

Digital Timers:

- 7 day programming.
- Manual Daylight Savings.
- Random feature for lived in look.
- Battery Back-up for power outages.

Light Activated Timers:

- **Timer Repeat Schedule:** Daily turns on at dusk.
- **Variable Timing:** Choose a countdown time to turn Off from 1 to 9 hours after dusk.
- **654E User Select Mode:** Start countdown at any time and repeats daily.



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS (▶)	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	RATING			
									RESISTIVE	TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
642E	1	cULus	16110	125	2	Grounded	Outdoor Lighting Timer	30 minutes	15A	1000W	500VA	1/3HP
654E	2	cULus	16113	125	2	Grounded	Light Activated Outdoor Lighting Timer	Turns on at Dusk and countdown off 1 through 9 hours later	15A	1000W	500VA	1/3HP TV-5
SA204	3	cETLus	16561	120	2	Grounded	Light Activated Landscape Timer	Turns on at Dusk and countdown off 1 through 9 hours later	8A	600W	—	—

NOTE: "▲" = Indicates outlet location.

DIGITAL
Zip-Set™

Outdoor Living Plug-In Timers
SA200 Series



APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON everyday.

FEATURES

- Fast programming with ZIP-SET™ One-Step™ set-up. Just enter your area code.
- Zip-Set™ turns lights ON at sunset & OFF at countdown or preset time.
- 7-5-2 settings for full week, weekdays, and weekends.
- Option to set with one of three on/off programs.
- Manual Daylight Savings.
- Random feature for lived in look.
- Battery Back-up for power outages.
- Power Cord: SA210 18" & SA220 24".

SA220



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	NO. OF OUTLETS (▶)	TYPE OF PLUG	DESCRIPTION	VARIABLE TIMING SEGMENTS	RATING			
								RESISTIVE	INDUCTIVE	TUNGSTEN	MOTOR
SA210	cULus	16537	120	2 Timed 1 Untimed	Grounded	Zip-Set™ Outdoor Living Wall Mount Timer	Sunset On and countdown hours to Off or same fixed time off each day	15A	15A	1000W	1/4HP
SA220	cULus	16534	120	6 Timed 1 Untimed	Grounded	Zip-Set™ Outdoor Lighting Stake Timer	Sunset On and countdown hoursto Off or same fixed time off each day	15A	15A	600W	1/4HP

NOTE: "▲" = Indicates outlet location.

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THE CODE SWITCH

Automatic Off & Override In One Device

SS900 Series



APPLICATIONS

- Open office areas, interior lighting and lobbies.

FEATURES

MEETS ASHRAE, IECC and TITLE 24 ENERGY CODE REQUIREMENTS.

- **Manual On/ Automatic Off:** The switch is preset with an occupied time schedule of 6:00a.m. to 6:00p.m. Monday - Friday; the switch requires a manual button push to turn ON. There is an automatic OFF at the end of the occupied time schedule. Customize with 10 pairs of set points. Day groups speed programming.
- **Override:** Factory preset for 2 hour override during unoccupied times. Override time may be set between 5 minutes and 4 hours.
- **Unoccupied Days:** Controlled load is OFF for at least 24 hours during times when no one is present.
- **Manual Operation:** Manual On (Vacancy Type) to turn on loads during occupied times. May also turn off loads for code required space control.
- **Flash Warning:** Option to add a load flicker warning and two minute countdown at the end of occupied and override times.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 100 hours of real time backup.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Tamper Resistant:** Wall plate locks access to timer adjustments.
- **Three-Way & Multi-Way:** Timer may be activated from other locations. Maximum distance 100 ft.
- **Momentary Output:** Option for SS903 to control latching contactors.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero-cross type switching.
- **Wiring Choices:**
 - SS903 - Dual Wiring: with neutral for new construction or no neutral for retrofit.
 - SS910 - Multiple circuits with power packs - Low-voltage class 2 wiring.
- **Clock Format:** AM/PM LCD display.
- **Wall Plate:** Supplied with single gang decorator wall plate.

SPECIFICATIONS

- Timing Accuracy: Line Frequency.
- Wire Size: Load Wire #14AWG.
- Operating Temperature: +32° F to +104° F (0° C to +40° C).
- Warranty: 5 Years.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

ACCESSORIES

- TRP-24I: See page 413.

ACCESSORY
TRP-24B



CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	GENERAL PURPOSE	MAGNETIC BALLAST	RATINGS			
							ELECTRONIC BALLAST (LED)	TUNGSTEN	PILOT DUTY	MOTOR
SS903	White	cULus	14041	120/277	15A	10A	8A	8A @ 120V	360VA @ 120V	1/2HP @ 120V
SS910	White	cULus	14040	15 A @ 24VDC or 24VAC	Minimum Load 1ma @5V					

DIGITAL

7 Day SunSet Timer

Astronomic SunSet/Sunrise In-Wall
SS721Z Series



APPLICATIONS

- Commercial outdoor security lighting, Interior lobby lighting.
- Contactors for fans and motors, sign lighting.

FEATURES

- **Scheduling:** 10 ON and OFF pairs of set points for individual programs on each day of the week. 11 day groups speed programming. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Sunset and sunrise times are adjustable from 10°- 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes for earlier or later operation.
- **Random Mode:** Varies ON and OFF times to create lived in look when away.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Manual Mode:** Does not run programs until set to AUTO (automatic) mode.
- **Vacation Mode:** No operation when away.
- **Easy Wiring:** SS721Z Requires a neutral, can be used as a 3-way switch.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 2 days of real time backup.
- **Commercial Grade Specs:** Control lighting contactors and 277VAC loads. Compatible with CFL lamps.
- **Full Switching:** No minimum load requirement.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Wire Size:** #12AWG input/output - #16AWG 3-way (remote).
- **Operating Temperature:** 32 °F to +104 °F (0 °C to + 40 °C).
- **Switch Type:** SPST

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	RESISTIVE	BALLAST	RATINGS			
							ELECTRONIC BALLAST (LED)	TUNGSTEN	PILOT DUTY	MOTOR
SS721Z	White	cULus	14027	120-277	16A	13A	10A	8A @ 120V	720VA @ 120V	1/2 HP @ 120V
SS721ZA	Light Almond	cULus	14028	120-277	16A	13A	10A	8A @ 120V	720VA @ 120V	1/2 HP @ 120V

DIGITAL

7 Day SunSet Timer

Astronomic Sunset/Sunrise In-Wall

SS700Z Series



APPLICATIONS

- Commercial outdoor security lighting, Interior lobby lighting.
- Contactors for fans and motors, sign lighting.

FEATURES

- **Scheduling:** 10 ON and OFF pairs of set points for individual programs on each day of the week. 11 day groups speed programming. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Sunset and sunrise times are adjustable from 10°-60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes for earlier or later operation.
- **Random Mode:** Varies ON and OFF times to create lived in look when away.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Manual Mode:** Does not run programs until set to AUTO (automatic) mode.
- **Vacation Mode:** No operation when away.
- **Easy Wiring:**
SS703Z does not require a neutral and can be used as a 3-way switch.
SS705Z does not require a neutral and it's not 3-way compatible.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 2 days of real time backup.
- **Commercial Grade Specs:** Control lighting contactors and 277VAC loads. Compatible with CFL lamps.
- **Full Switching:** No minimum load requirement.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Wire Size:** #12AWG input/output - #16AWG 3-way (remote).
- **Operating Temperature:** 32 °F to +104 °F (0 °C to + 40 °C).
- **Switch Type:** SPST

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	RESISTIVE	BALLAST	RATINGS			
							ELECTRONIC BALLAST (LED)	TUNGSTEN	PILOT DUTY	MOTOR
SS703Z	White	cULus	14042	120/277	15A	10A	8A @ 120 5A @ 277	8A @ 120V	360VA @ 120V	1/2 HP @ 120V
SS703ZA	Light Almond	cULus	14043	120/277	15A	10A	8A @ 120 5A @ 277	8A @ 120V	360VA @ 120V	1/2 HP @ 120V
SS705Z	White	cULus	14038	120	15A	10A	8A	8A	360VA	1/2 HP

DIGITAL
Zip-Set™
Residential In-Wall Timer
SA170 Series



APPLICATIONS

- Residential Exterior lights.
- Small fans and motors.
- Appliances.

FEATURES

- **Zip-Set™** factory preset time. Just enter area code and it finds correct time and sunset time.
- **Scheduling:** One On/Off set point pair is active at a time. Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.
- **Random Mode:** Varies ON and OFF times to create "lived in" look when away.
- **Countdown:** Button press turns lights ON and starts a 5 minute countdown to OFF.
- **Daylight Saving:** Manual button push for one hour adjustment.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Wiring:** Requires a neutral.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Lithium batteries retain time and schedule.
- Wall plate not included.

SPECIFICATIONS

- **Timing Accuracy:** +/- 1 minute/month.
- **Terminal Range:** #14AWG
- **Operating Temperature:** 32 °F to +104 °F (0 °C to +40 °C).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	RATINGS			
					RESISTIVE	INDUCTIVE	TUNGSTEN	MOTOR
SA170	White	cULus	16528	120	15A	15A	5A	1/2HP

DIGITAL

Auto OFF Countdown Timer

Commercial In-Wall

SS400 Series



APPLICATIONS

- Offices, meeting rooms.
- Energy code timed override.
- Exhaust fans.
- Equipment room and storage spaces.

FEATURES

- **Wiring Choices:**
 - SS403 — no neutral for retrofit
 - SS423 — with neutral for new construction
 - SS410 — multiple circuits with power packs
 - low voltage for class 2 wiring
- **Energy Code Preset:** 2 hour timing for Title 24 and IECC (default). 4 hour timing for ASHRAE 90.1 (with quick dip switch adjustment)
- **Programmable:** 5 minutes to 24 hour: 5 minute steps from 5 minutes to 1 hour. 10 minute steps from 1 to 4 hours. 30 minute steps from 4 to 12 hours. 1 hour steps from 12 to 24 hours.
- **Scroll Lock:** Limits user adjustment to a maximum equal to the preset time.
- **Flash Warning:** Optional one second flicker turns load off/on 2 minutes before end of time cycle.
- **Beeper Warning:** Optional beep will sound every 15 seconds during the last 2 minutes of the time cycle.
- **Tamper Resistant:** Wall plate locks access to dip switch adjustments.
- **Manual Operation:** Start or stop countdown from timer or remote switch.
- **Three-Way & Multi-Way:** Three-way compatible with existing switch. Multi-way requires momentary switches at the additional locations. Maximum distance 100 feet.
- **Display:** Backlit LCD Display.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Timing Accuracy:** Line Frequency
- **Wire Size:**
 - SS403/SS423 — #14AWG input/output - #16AWG 3-way (remote).
 - SS410 — #18AWG
- **Operating Temperature:** 32 °F to +104 °F (0 °C to + 40 °C).
- **Warranty:** 5 Yrs.
- **Switch Type:**
 - SS403/SS423: SPST
 - SS410: SPDT

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	RATINGS					
					RESISTIVE	BALLAST	ELECTRONIC BALLAST (LED)	TUNGSTEN	PILOT DUTY	MOTOR
SS403	White	cULus	14029	120/230/277	15A	10A	10A @ 120V	8A @ 120V	360VA @ 120V	1/4HP @120V
SS423	White	cULus	14030	120/230/277	15A	13A	1200W @ 120V	8A @ 120V	720VA @ 120V	1HP
SS410	White	cULus	14033	24VAC/VDC	.5A Max. @ 28VDC, 1A @ 24VAC/VDC (Minimum Load 1ma @ 5V)					

DIGITAL

Auto OFF Countdown Timer

Commercial & Residential In-Wall

SS Series



SPECIFICATIONS

- Timing Accuracy: $\pm 5\%$ @ 60° to 80°F.
- Wire Size: #18AWG
- Operating Temperature: 0 °F to +100 °F (-17 °C to +37 °C).
- Switch Type:
 - SS13F/SS13B: 3-Way switch with no re-wiring.
 - SS20/SS20F: SPST
- Not compatible with compact fluorescent lamps (CFL) and electronic fluorescent ballasts.

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

APPLICATIONS

- Bathroom fans and lights, Indoor/Outdoor lighting.
- Storage areas, hospitality areas.

FEATURES

- **Variable Timing:** Choose from 1 minute to 18 hours.
- **Flash Warning:** "F" suffix models with flicker feature turns load off for 1/2 second, 2 minutes before end of timed cycle and again 1 minute before end of timed cycle.
- **Audible Warning:** "B" suffix model with beep feature will begin a 1/2 second audible warning every 12 seconds during the last 2 minutes of timed cycle.
- **Tamper Resistant:** Time ON interval preset is hidden behind wall plate.
- **Easy Set:** Small screw driver adjustment provides quick set-up of timing.
- **Easy Wiring:** No neutral needed, great for retrofit.

CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	MINIMUM LOAD	WARNING BEFORE TIME OUT	RATINGS			
							RESISTIVE	BALLAST	TUNGSTEN	MOTOR
SS13F	White	cULus	14007	24 120	6W @ 24V 30W @ 120V	Flicker	.25-4.0A @ 24VAC	.25-4.0A @ 120VAC	.25-4.0A @ 208VAC	1/8 HP @ 120VAC 1/3 HP @ 240VAC
SS13B	White	cULus	14006	208 240 277	50W @ 208V 60W @ 240V 70W @ 277V	Beep				
SS20	White	cULus	14005	24 120	12W @ 24V 60W @ 120V	None	.50-7.25A @ 24VAC	.50-7.25A @ 120VAC	.50-4.0A @ 208VAC	1/6 HP @ 120VAC 1/2 HP @ 240VAC
SS20F	White	cULus	14008	208 240 277	105W @ 208V 120W @ 240V 150W @ 277V	Flicker				

DIGITAL

Auto OFF Countdown Timer

Residential In-Wall

D Series



SPECIFICATIONS

- Timing Accuracy: Line voltage.
- Wire Size: #14AWG
- Operating Temperature: 32 °F to 122 °F (0 °C to 50 °C).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

APPLICATIONS

- Whole house fans, Indoor/Outdoor lighting.
- Bathroom fans and lights, self storage.

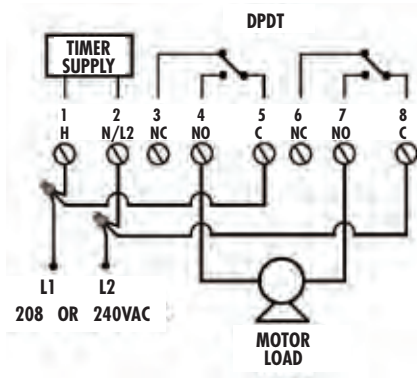
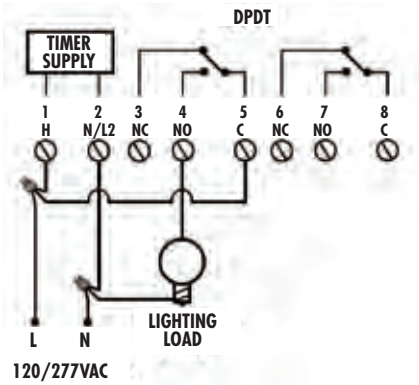
FEATURES

- **Variable Timing:**
 - Button push changes time ON setting.
 - D1060M: 10, 20, 30, 60 minute.
 - D212H: 2, 4, 8, 12 hour.
- **LED Display:** Indicator moves to new range as timer counts down.
- **Tamper Resistant:** Time ON interval preset.
- **Easy Set:** No adjustments, just wire and go!
- **Wiring:** Requires a neutral.
- **Colors:** Ivory, Light Almond, White.

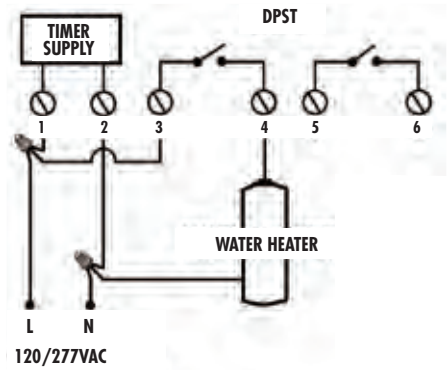
CAT. NO.	COLOR	CERTIFICATION	UPC CODE	SUPPLY VOLTAGE VAC 50/60Hz	TIME SETTINGS	GENERAL PURPOSE	RATINGS			
							RESISTIVE	TUNGSTEN	BALLAST	MOTOR
D212H	Ivory	cULus	14021	120	2, 4, 8, 12 Hours	15A	1000W	1000W	1000VA	1/4HP
D212HA	Light Almond	cULus	14022	120	2, 4, 8, 12 Hours	15A	1000W	1000W	1000VA	1/4HP
D212HW	White	cULus	14023	120	2, 4, 8, 12 Hours	15A	1000W	1000W	1000VA	1/4HP
D1060M	Ivory	cULus	14025	120	10, 20, 30, 60 Minutes	15A	1000W	1000W	1000VA	1/4HP
D1060LA	Light Almond	cULus	14024	120	10, 20, 30, 60 Minutes	15A	1000W	1000W	1000VA	1/4HP
D1060MW	White	cULus	14026	120	10, 20, 30, 60 Minutes	15A	1000W	1000W	1000VA	1/4HP

DIGITAL Wiring Diagrams

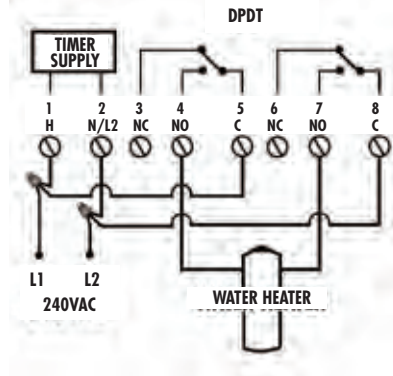
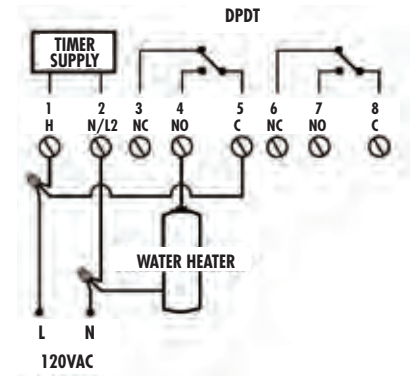
DT Series (DTU40)



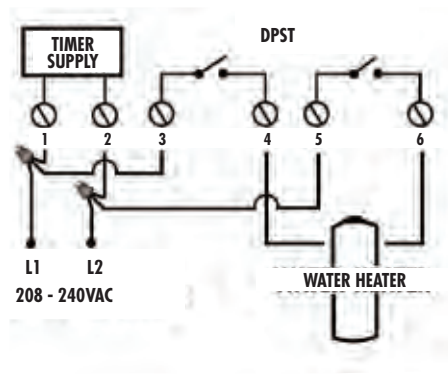
EH20C Series (120/277VAC)



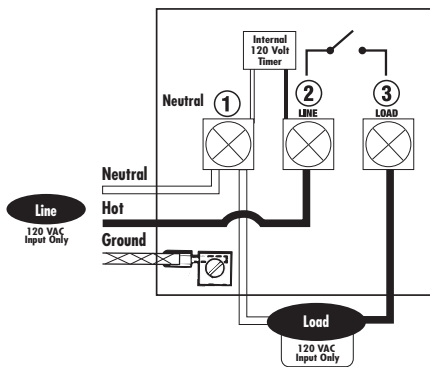
DTWH40



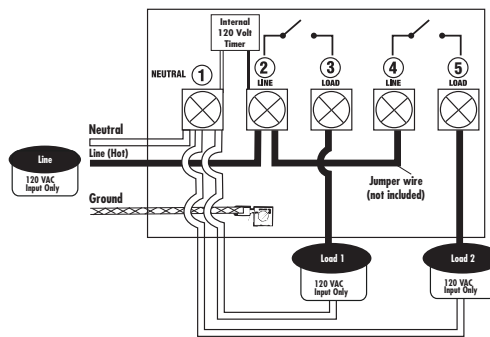
EH20C Series (208/240VAC)



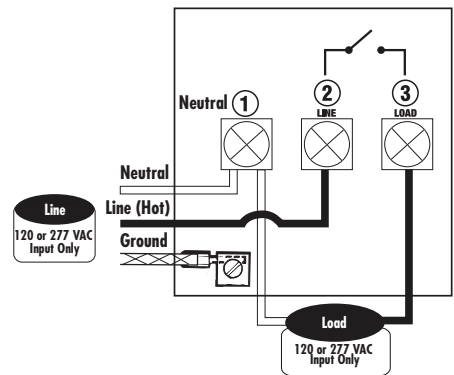
SA300



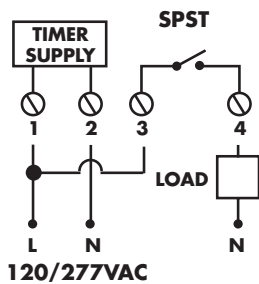
SA306



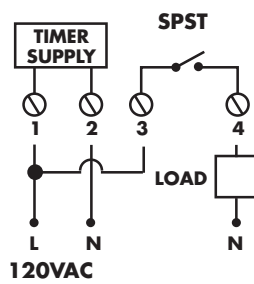
SA400



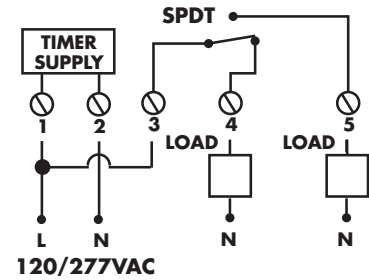
E101B



E101PB

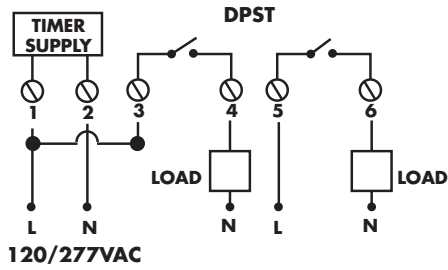


E120B

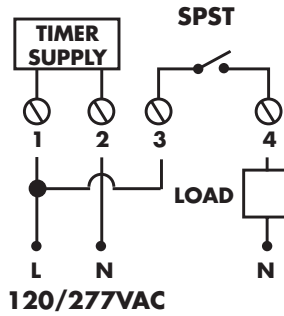


DIGITAL Wiring Diagrams

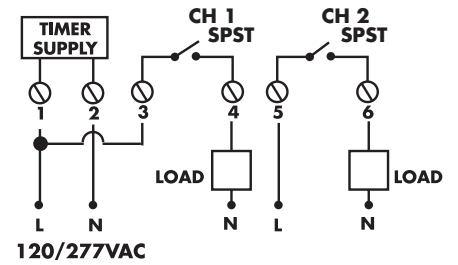
E103B (120/277VAC)



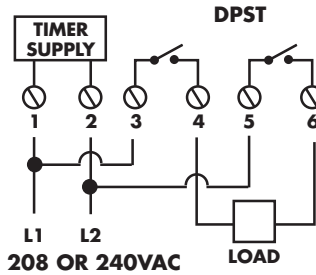
EW101B



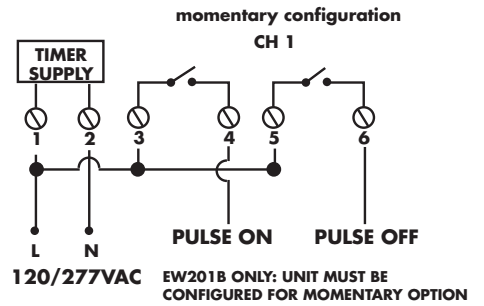
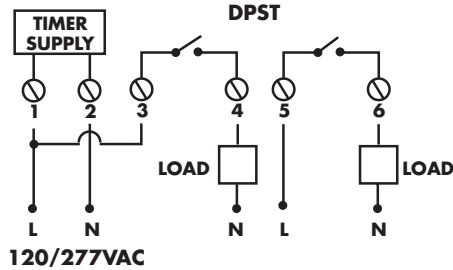
EW201B



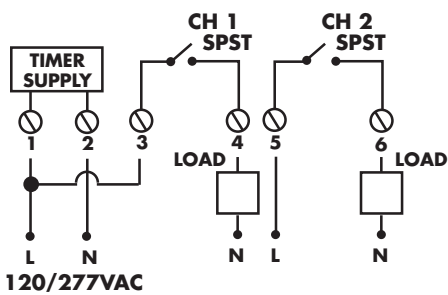
E103B (208/240VAC)



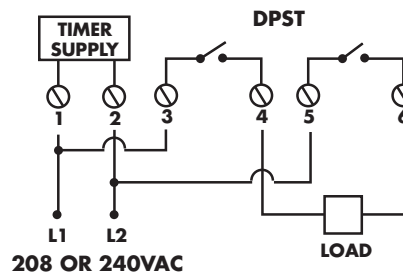
EW103B (120/277VAC)



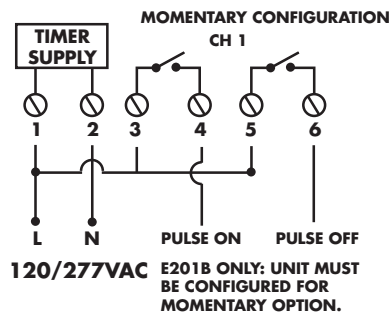
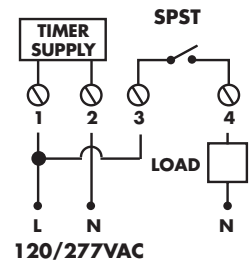
E201B



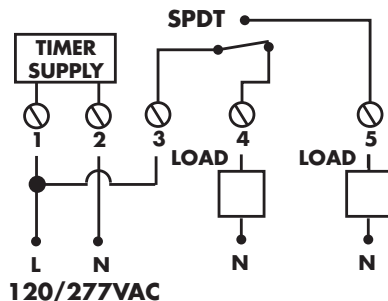
EW103B (208/240VAC)



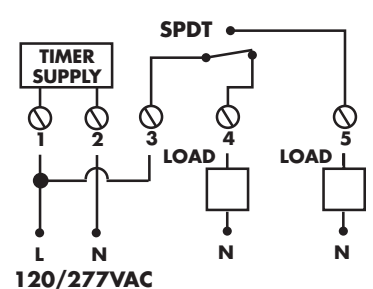
EWZ101



EW120B

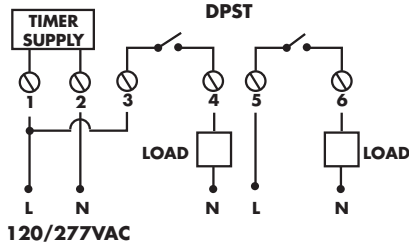


EWZ120

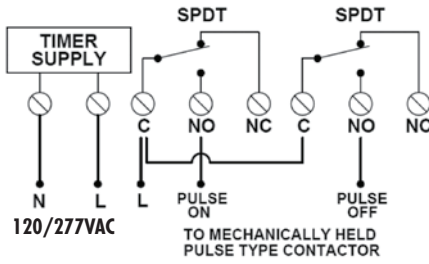


DIGITAL Wiring Diagrams

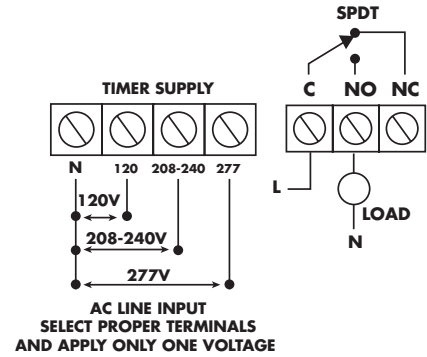
EWZ103 (120/277VAC)



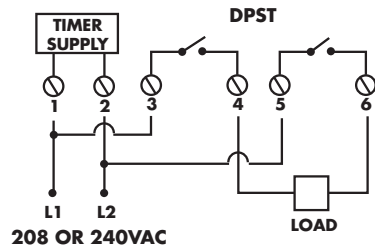
DGM100A



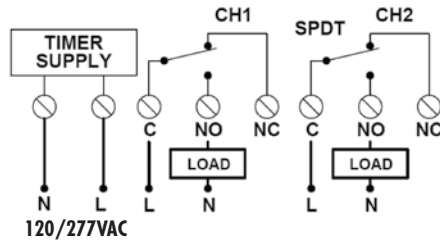
DWZ100B



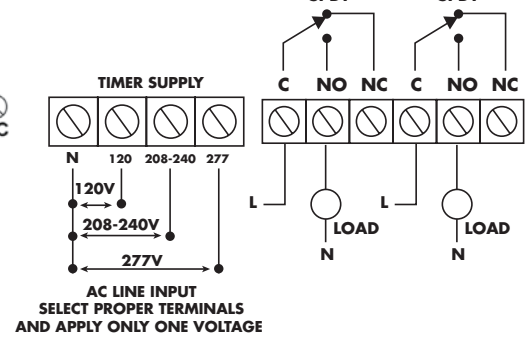
EWZ103 (208/240VAC)



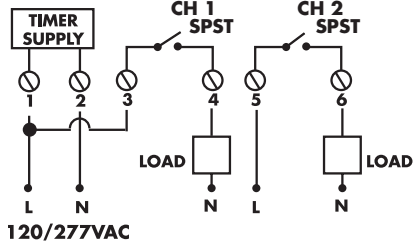
DG200A



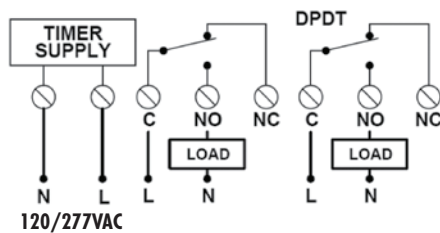
DW200B



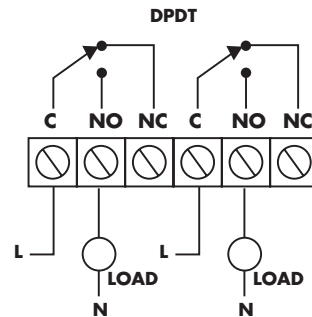
EWZ201C (120/277VAC)



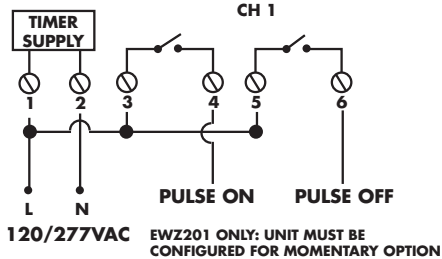
DG100A (120/277VAC)



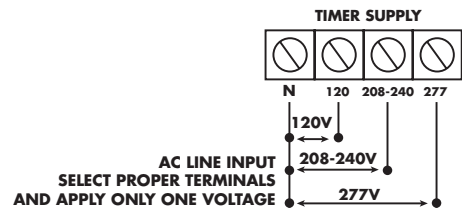
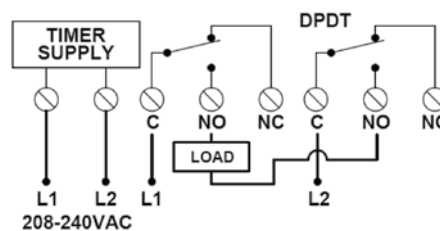
DTS100B



momentary configuration
CH 1

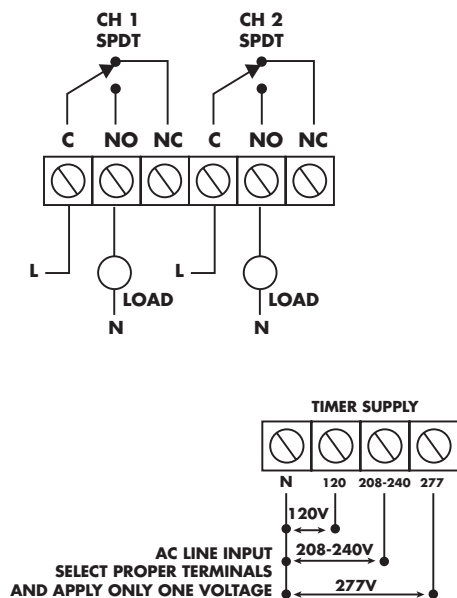


DG100A (208/240VAC)

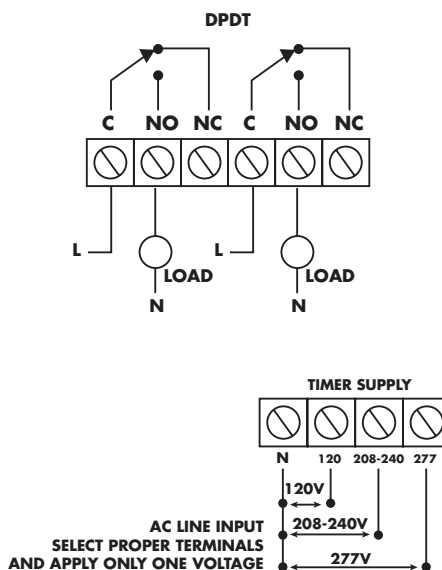


DIGITAL Wiring Diagrams

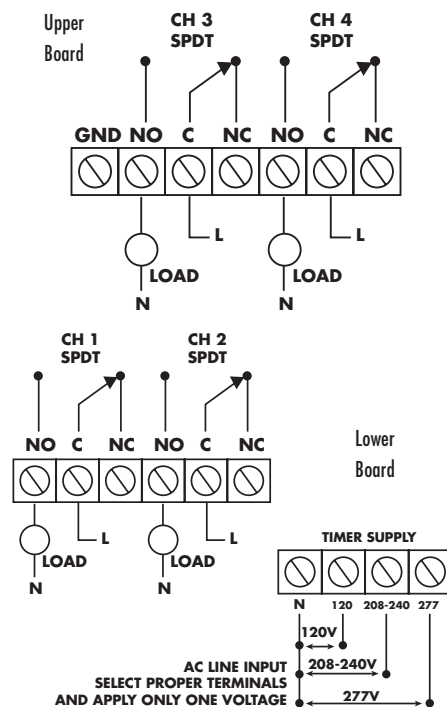
DTS200B



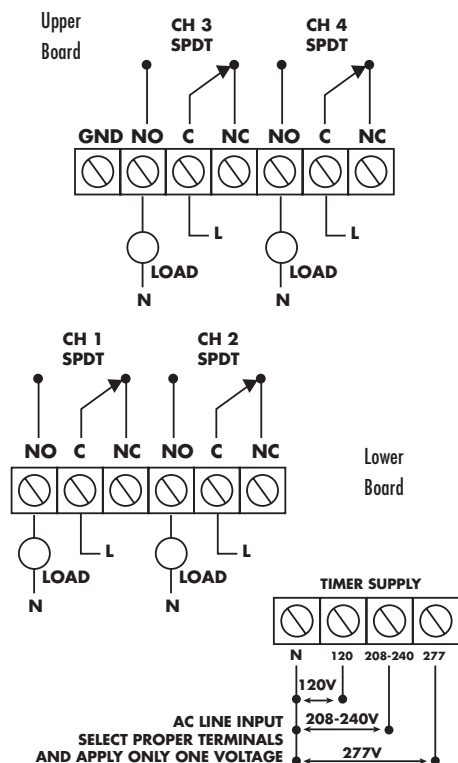
DZS100BP



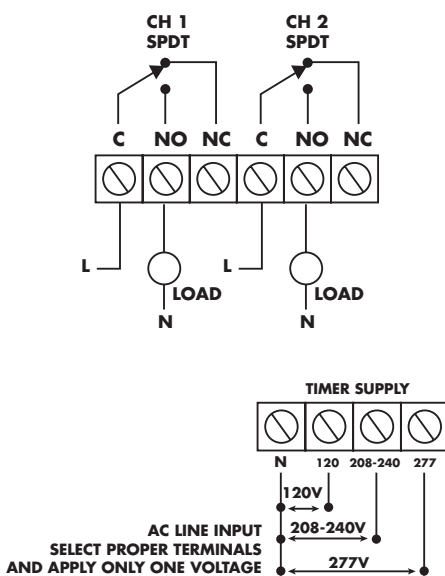
DZS400BP



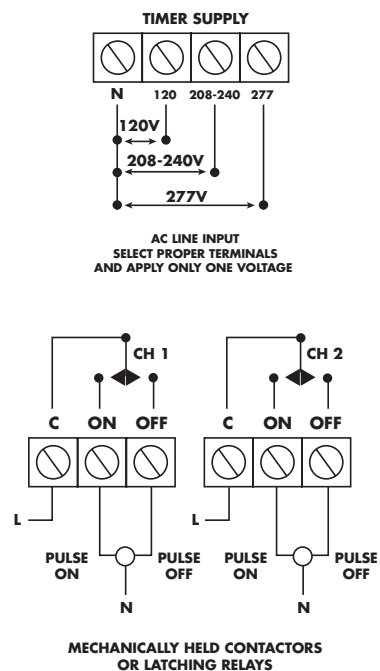
DTS400B



DZS200BP

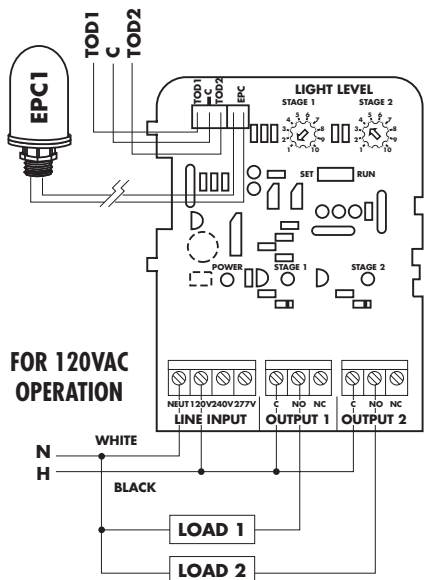


DZM200BP



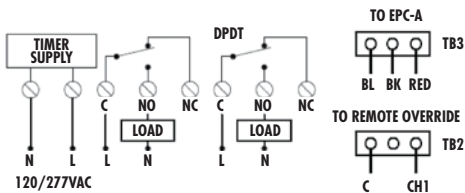
DIGITAL Wiring Diagrams

LC2000 Series

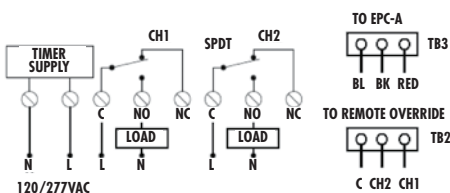


DGLC Series

DGLC100A



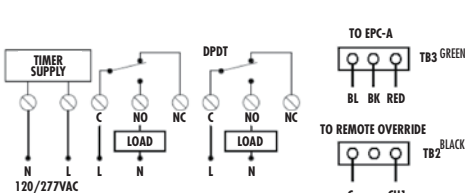
DGLC200A



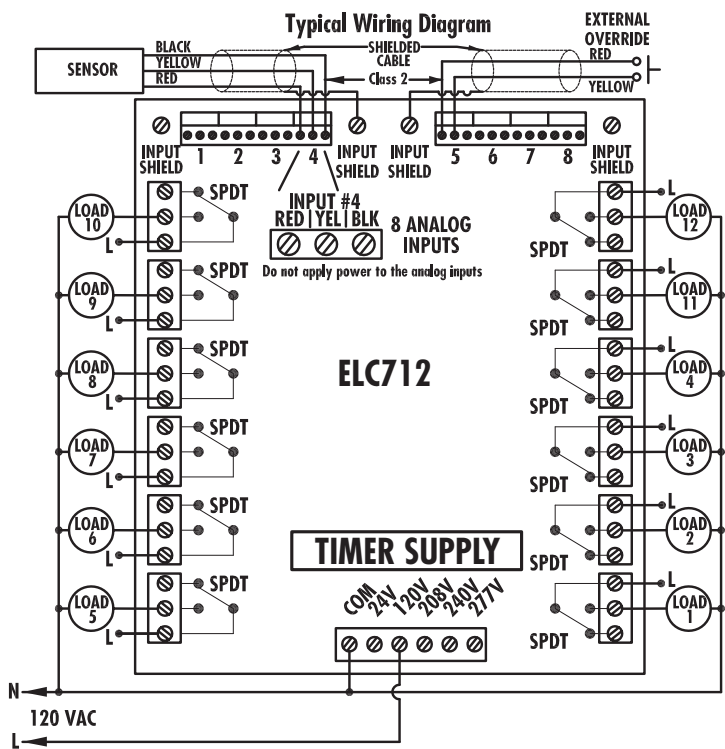
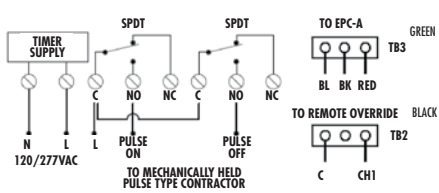
ELC Series

DGLU Series

DGU100A

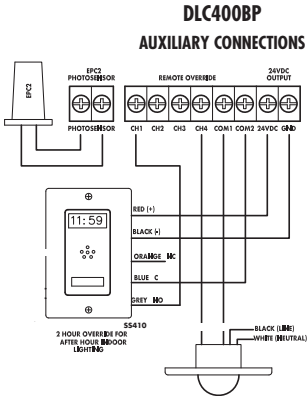


DGUM100A

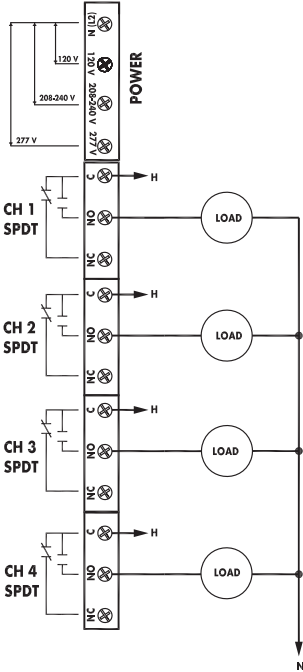


DIGITAL Wiring Diagrams

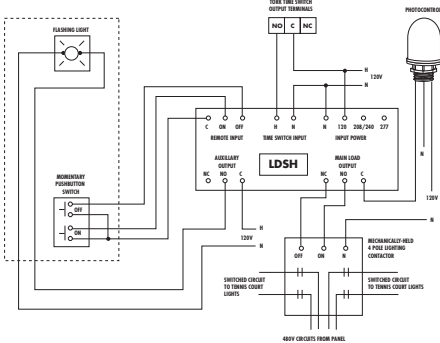
DLC400BP



**TORK DIGITAL CONTROL
TERMINAL BLOCK**

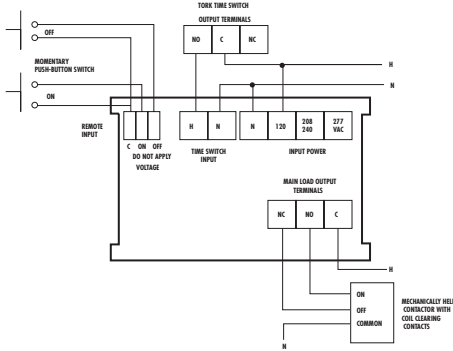
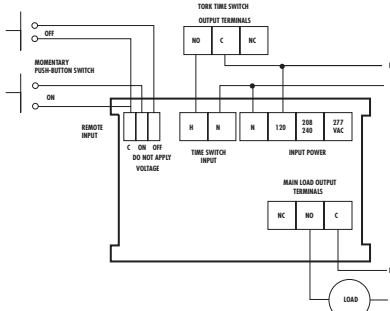


APPLICATION WIRING

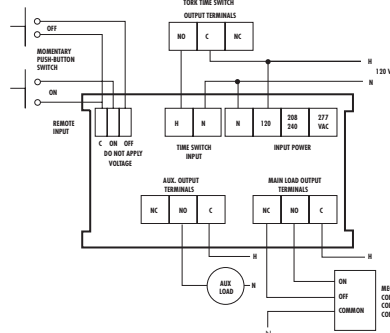
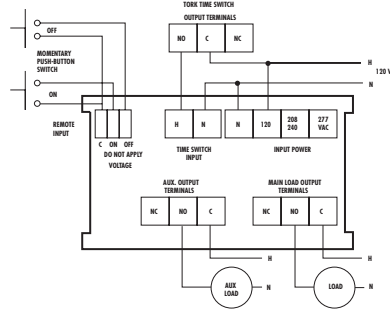


LD Series

LDS WIRING

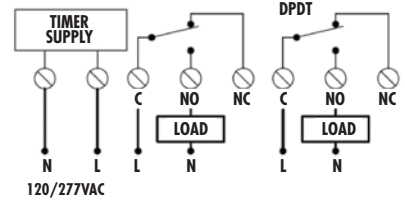


LDSh WIRING

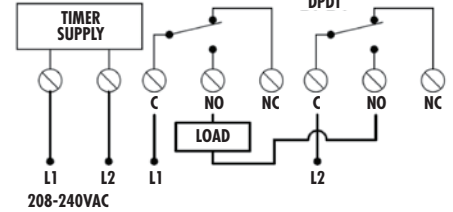


DGS Series

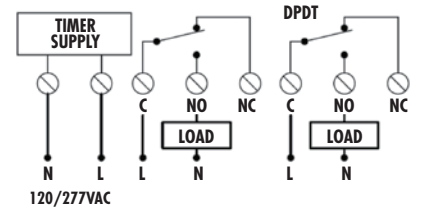
**DGS100A
FOR 120V/277VAC**



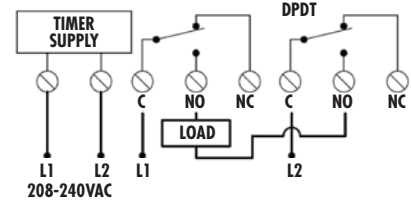
**DGS100A
FOR 208-240VAC**



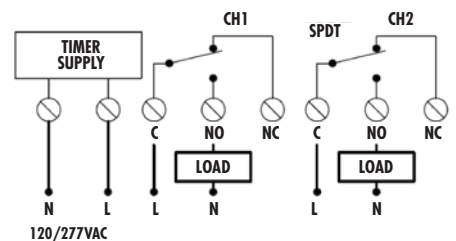
**DG180A
FOR 120V/277VAC**



**DG180A
FOR 208-240VAC**

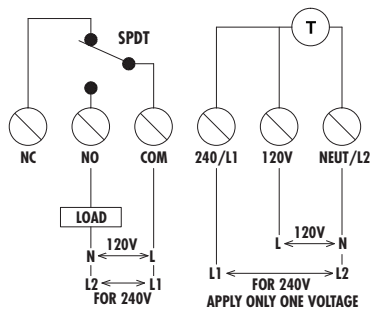


DG280A

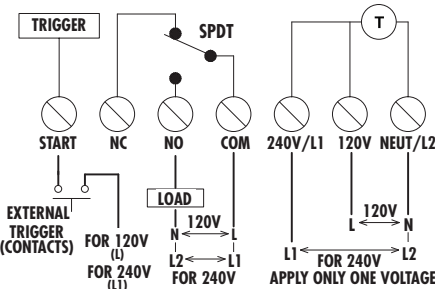


DIGITAL Wiring Diagrams

EJWT & E500T Series

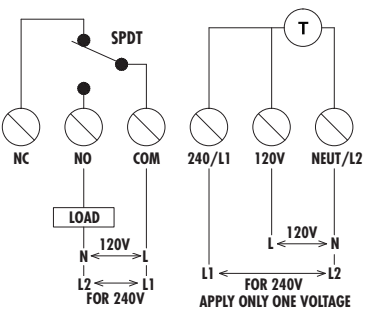


Use copper conductors. For supply connections use
AWG #12 wire rated for at least 90°C (194°F) or equivalent.



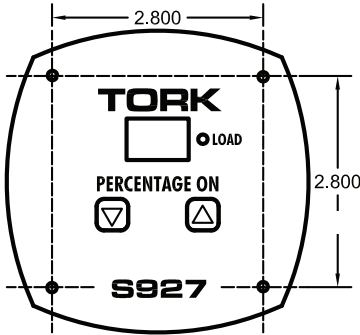
Use copper conductors. For supply connections use
AWG #12 wire rated for at least 90°C (194°F) or equivalent.

ACT30MA

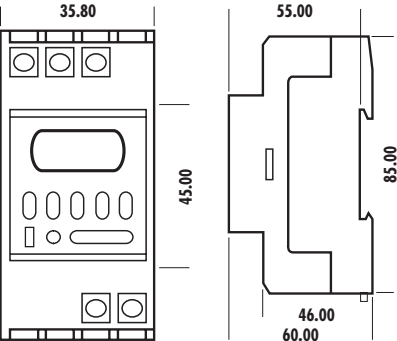


Use copper conductors. For supply connections use
AWG #12 wire rated for at least 90°C (194°F) or equivalent.

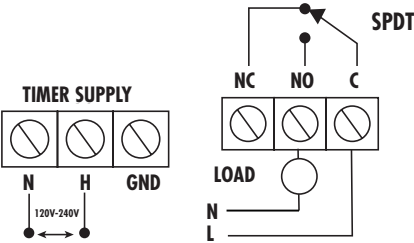
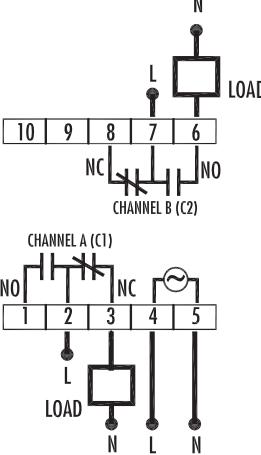
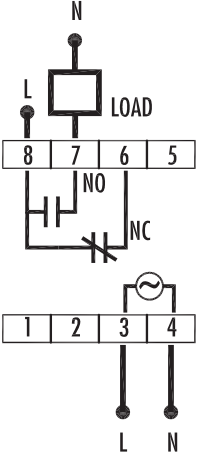
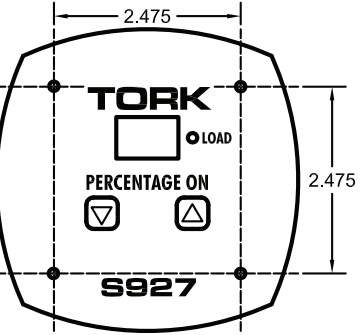
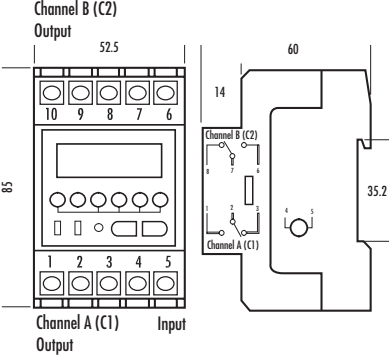
PCT15M



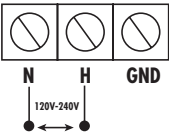
DIN100B



DIN200B

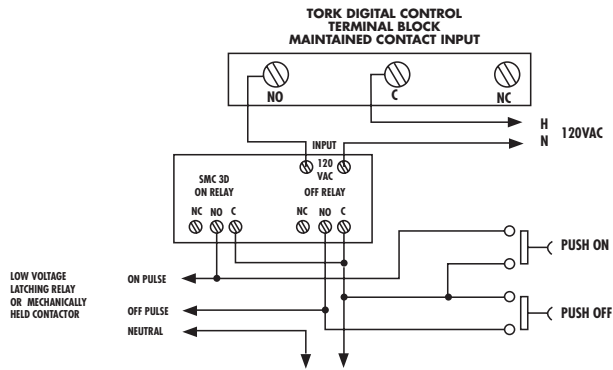


TIMER SUPPLY

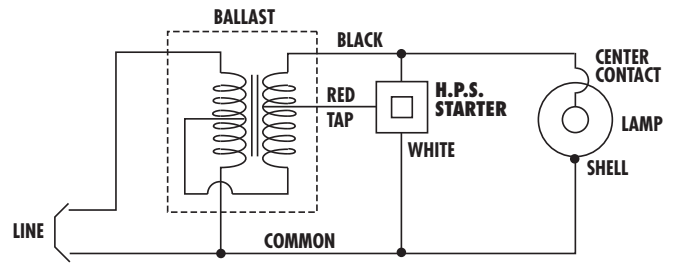


DIGITAL Wiring Diagrams

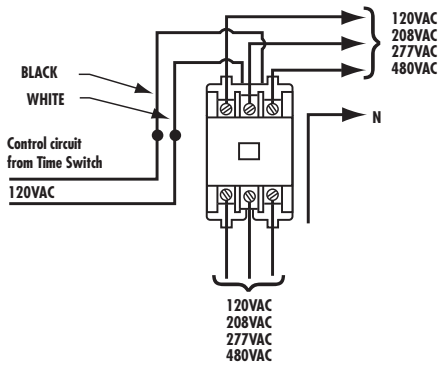
SMC Series



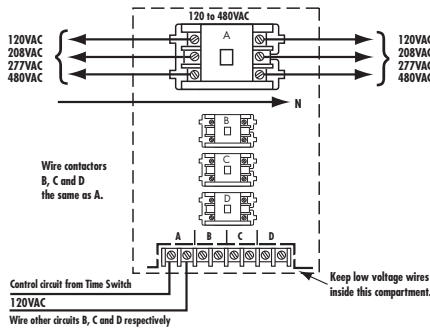
HPS Starter



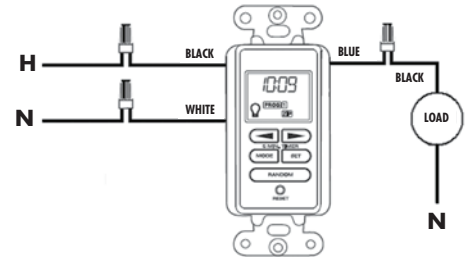
5401A



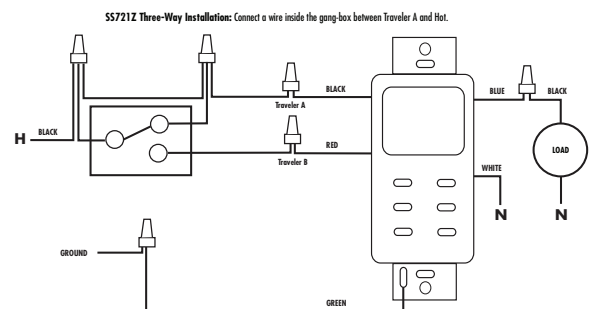
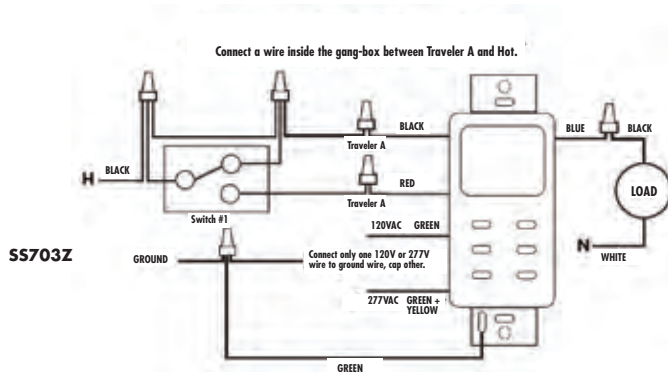
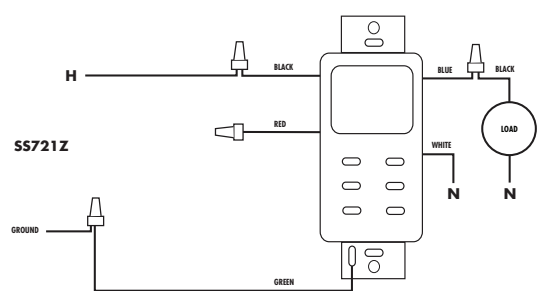
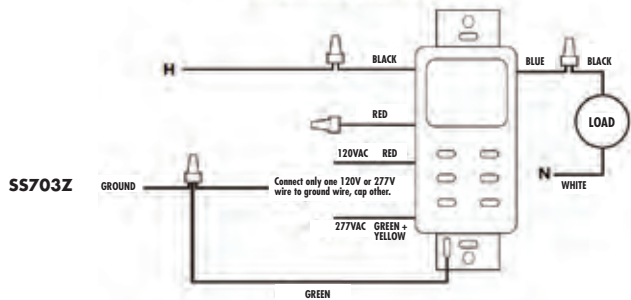
5441A



SA170 Series

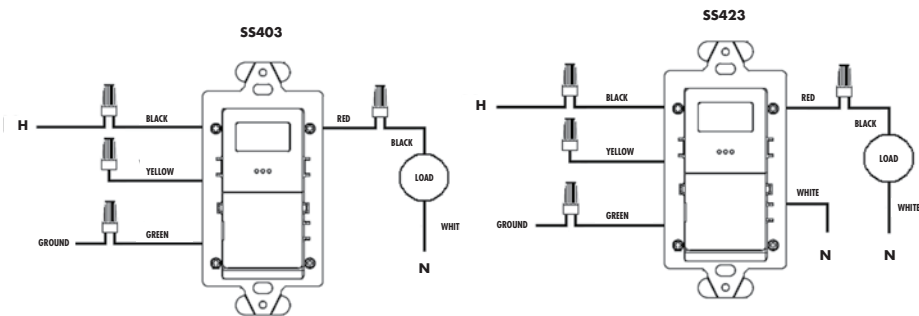


SS700Z Series



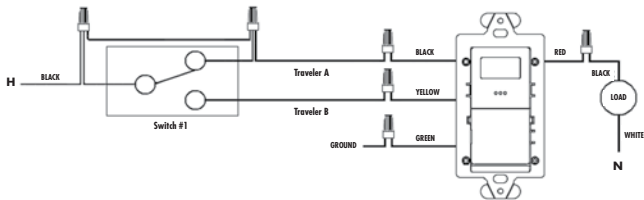
DIGITAL Wiring Diagrams

SS400 Series



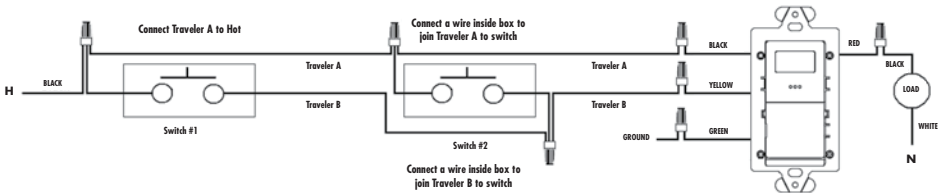
SS403 Wiring for 3-Way

Connect a wire inside the gang-box between Traveler A and Hot.

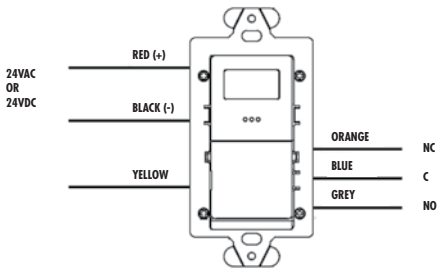


SS403 Wiring for 4-Way

Use momentary switches at all additional locations.
TORK #LCS115M

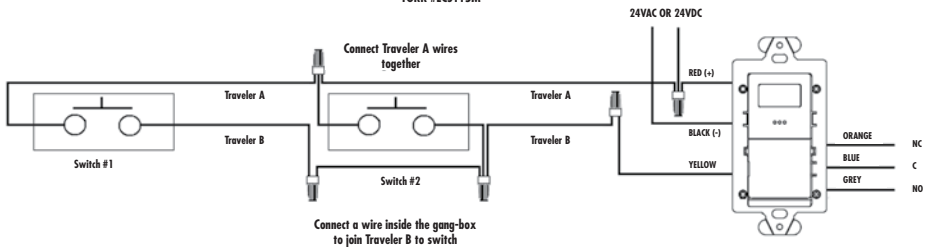


SS410



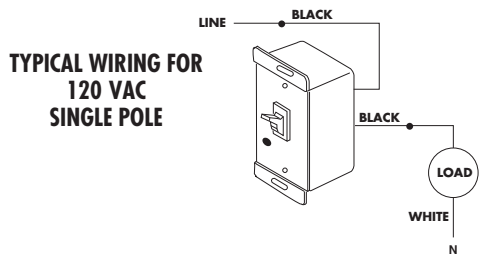
SS410 Wiring for 4-Way

Use momentary switches at all additional locations.
TORK #LCS115M



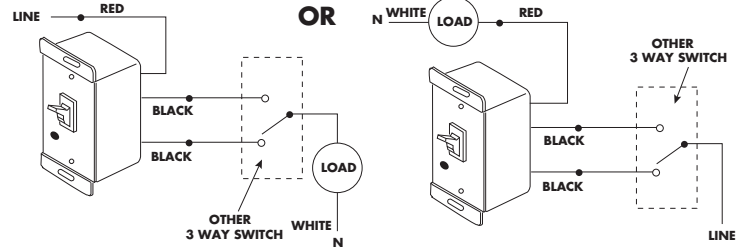
DIGITAL Wiring Diagrams

SS Series

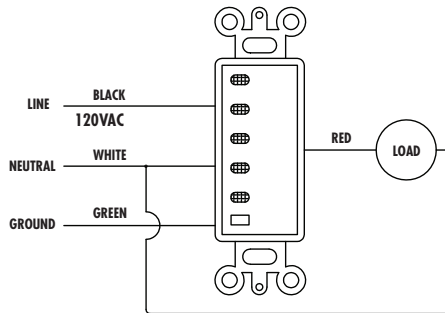


SS Series

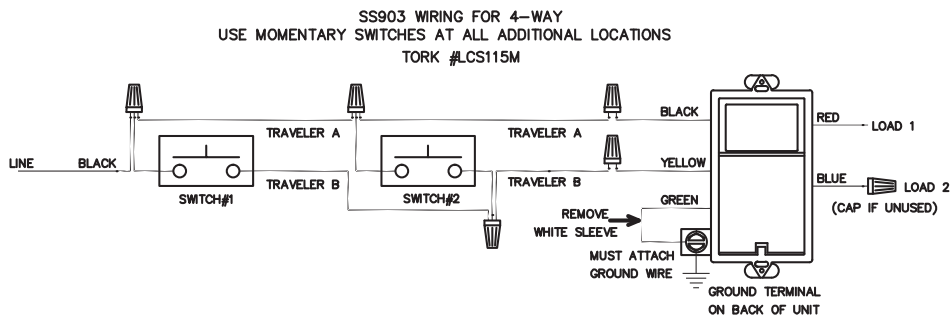
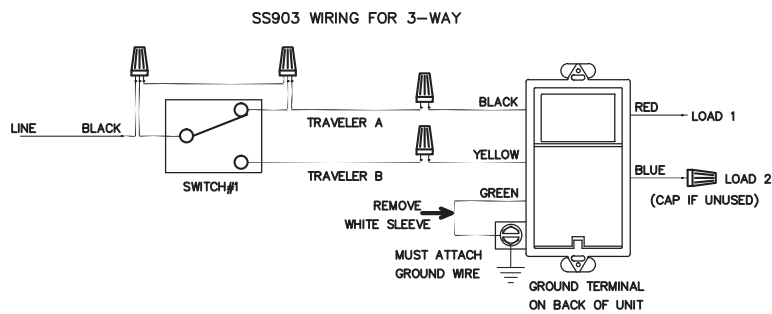
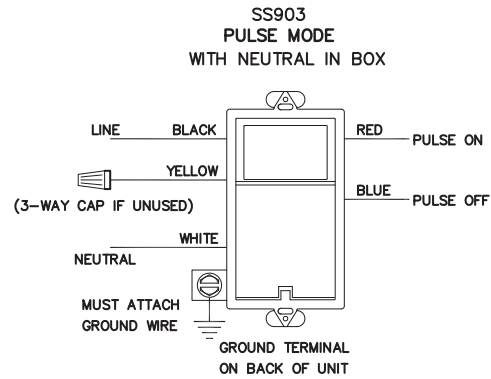
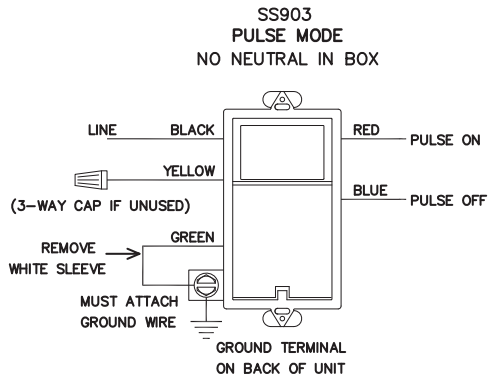
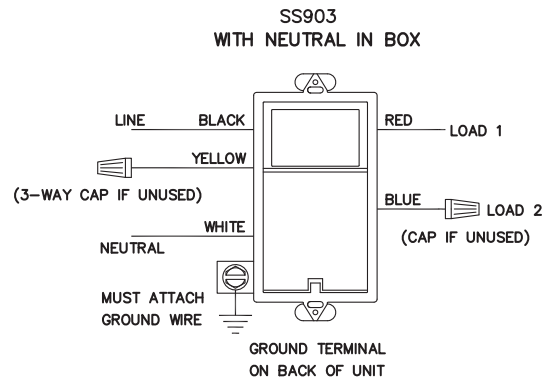
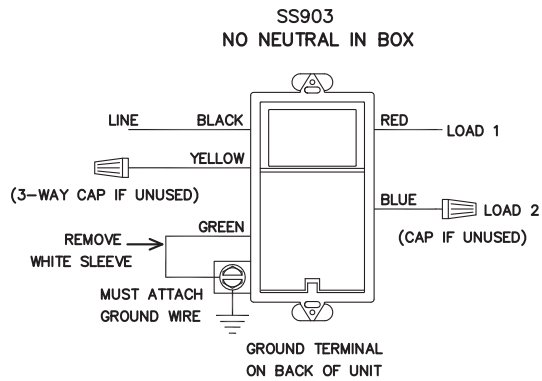
TYPICAL WIRING FOR 120 VAC – 3 WAY (Red is common)



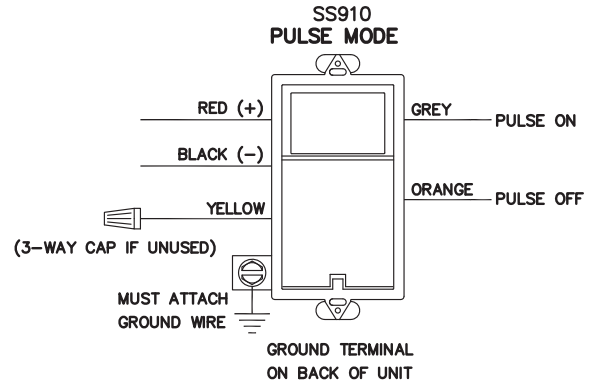
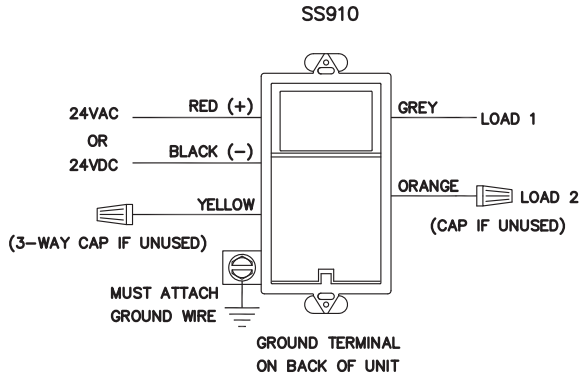
D Series



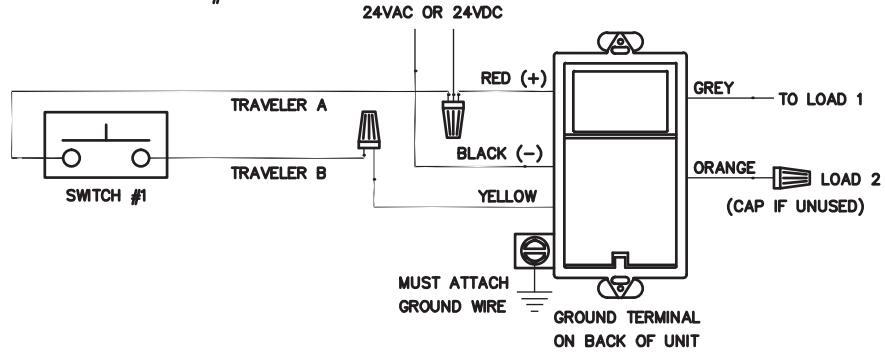
DIGITAL Wiring Diagrams



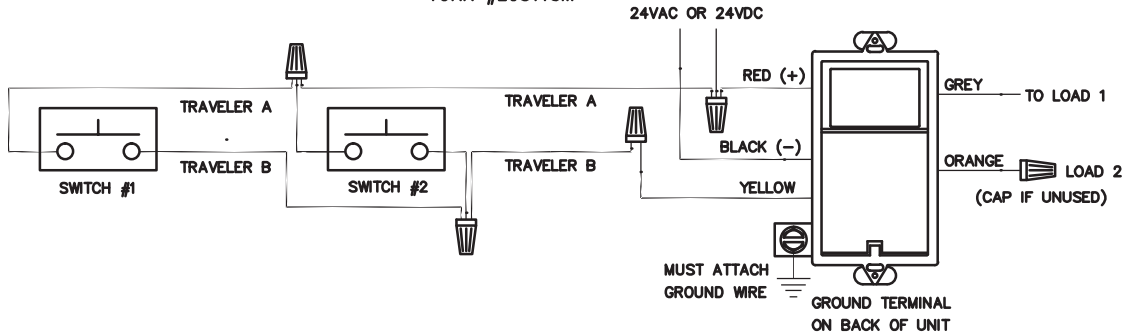
DIGITAL Wiring Diagrams



SS910 WIRING FOR 3-WAY
USE MOMENTARY SWITCHES AT ALL ADDITIONAL LOCATIONS
TORK #LCS115M



SS910 WIRING FOR 4-WAY
USE MOMENTARY SWITCHES AT ALL ADDITIONAL LOCATIONS
TORK #LCS115M



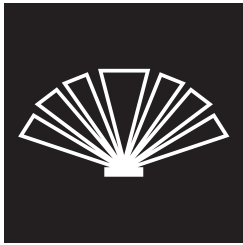


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TORK[®] OCCUPANCY SENSORS

SENSOR TECHNOLOGY & PLACEMENT GUIDE



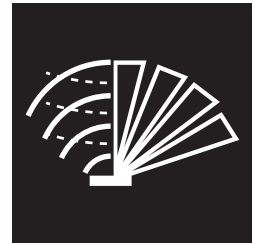
Passive Infrared

Passive Infrared senses occupancy using bands of infrared to recognize body heat and the movement between sensing bands. This is the most widely used technology which provides low cost and consistent function. Physical obstructions such as filing cabinets can block the ability for the sensor to pick up motion.



Ultrasonic

Ultrasonic senses movement by filling the space with an inaudible sound wave. Movement within the space changes the return sound signal and is interpreted as movement. The technology is more sensitive to minor motion. Any object that moves in the space will be detected and the space is then considered occupied.



Dual Technology

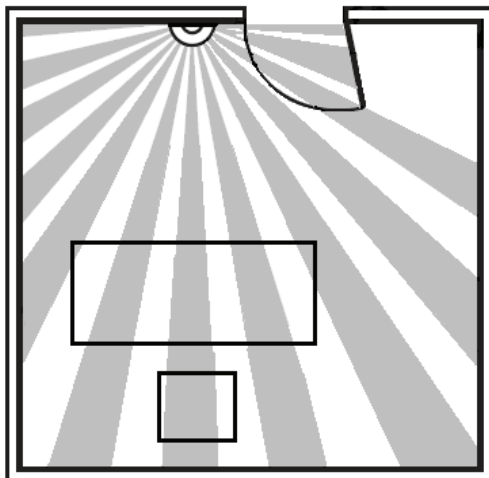
Dual Technology uses both passive infrared and ultrasonic to combine the best performance characteristics of each. Utilizing either technology to keep the lights ON, it minimizes unexpected turn OFF. Requires both technologies to recognize movement to turn lights ON minimizes false ON errors.

PLACEMENT GUIDELINES

WALL SENSOR

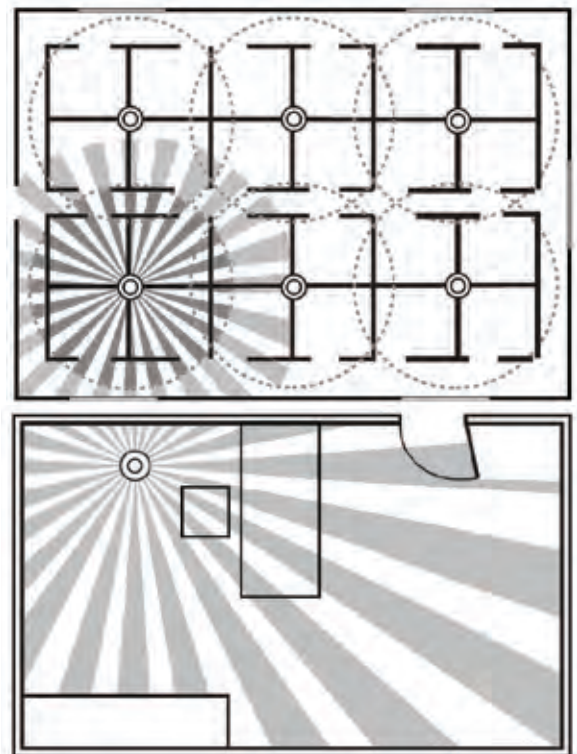
A *Wall Switch Sensor* provides a 180° coverage pattern, extending outward from the sensor. This will allow for instant turn ON when an occupant enters the space. Total area covered will be over 400 square feet.

- Proper placement gives the sensor a clear line of sight to the entry door without viewing the hallway.
- The occupant must be able to see the sensor from their normal work position otherwise the sensor will not be able to detect their presence.
- For offices where there are other obstructions between the sensor and the occupant or the entry door, a ceiling sensor is required.



CEILING SENSOR

A *Ceiling Sensor* provides a 360° coverage pattern of up to 1200 square feet when using passive infrared only. Barriers within the space that block line-of-sight to sensor detection will decrease coverage area when using passive infrared by itself, ultrasonic or dual technology will allow the sensor to get around the obstructions.



OCCUPANCY SENSORS

PIR Wall Switch

WOS Series



SPECIFICATIONS

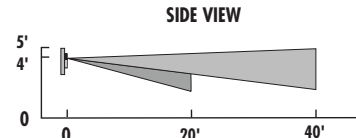
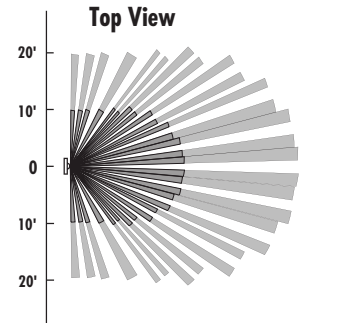
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 3 YRS.

APPLICATIONS

- Office areas.
- Meeting rooms.
- Equipment room and storage spaces.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



180° Field of View



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	WIRING	TUNGSTEN	RATING ELECTRONIC BALLAST (LED)	MOTOR
WOS-SN	cULus	98213	120	1200	Requires neutral	800W	1000W	1/4 HP

OCCUPANCY SENSORS

PIR Wall Switch

WOS-M Series



SPECIFICATIONS

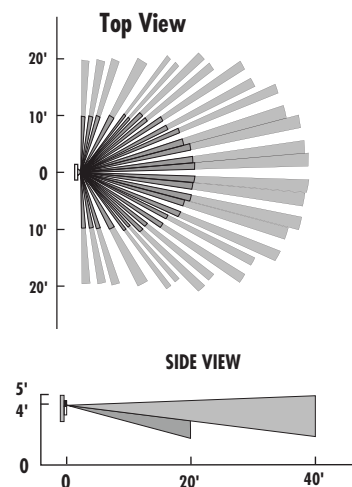
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

APPLICATIONS

- Office areas, meeting rooms.
- Equipment room and storage spaces.
- New construction & retrofit.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Daylight Photosensor:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



180° Field of View



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	WIRING	TUNGSTEN	RATING ELECTRONIC BALLAST (LED)	MOTOR
WOS-M	cULus	98217	120/230/277	1200	No Neutral Required	800W	1000W @ 120 1500W @230 1800W @ 277	1/4 HP @ 120
WOS-MN	cULus	98215	120/230/277	1200	Requires Neutral	800W	1000W @ 120 1500W @230 1800W @ 277	1/4 HP @ 120

OCCUPANCY SENSORS

PIR Wall Switch Two Relay

WOS-M2R Series



SPECIFICATIONS

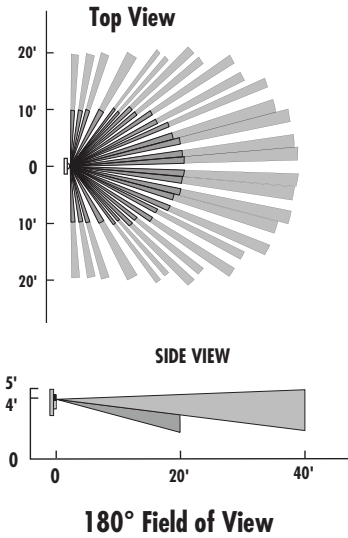
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

APPLICATIONS

- Office areas, meeting rooms.
- Equipment room and storage spaces.
- New construction & retrofit.

FEATURES

- **Software Set:** Completely customizable functions through button push programming. Each relay can have different settings.
 - **Bathroom Mode:** set fan relay time delay longer than lighting relay.
 - **Two Step Light Level:** set each relay to turn off at different daylighting levels
 - **Public Areas:** Disable one relay button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Daylight Photosensor:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	WIRING	RATING		
						TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
WOS-M2R	cULus	98221	120/230/277	1200	No Neutral Required	800W	1000W @ 120 1500W @ 230 1800W @ 277	1/4 HP @ 120
WOS-MN2R	cULus	98219	120/230/277	1200	Requires Neutral	800W	1000W @ 120 1500W @ 230 1800W @ 277	1/4 HP @ 120

OCCUPANCY SENSORS

Ultrasonic & PIR Wall Switch

WOS-MN2T Series



SPECIFICATIONS

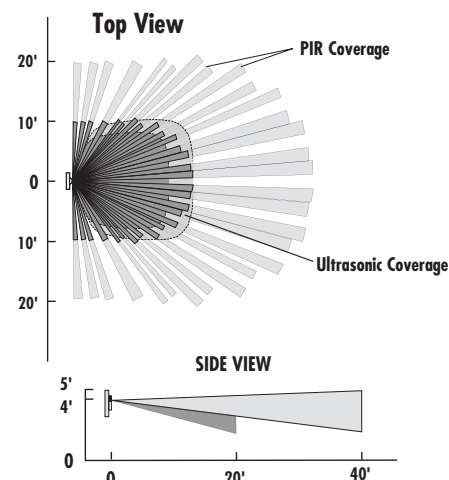
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

APPLICATIONS

- Office areas, meeting rooms.
- Equipment room and storage spaces.
- New construction & retrofit.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
 - **Initial On:** customize and set one technology only to trigger turn on.
 - **Maintain On:** customize and set one technology to keep lights on.
 - **Public Areas:** Disable button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Daylight Photosensor:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Sensor Choices:** Factory default setting allows either technology to trigger the unit. Optional is a disable function of one technology for initial and/or maintain on operations.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	WIRING	RATING		
						TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
WOS-MN2T	cULus	98223	120/230/277	1200 (PIR) 400 (Ultra-sonic)	Requires neutral	800W	1000W @ 120 1500W @230 1800W @ 277	1/4 HP @ 120

OCCUPANCY SENSORS

Ultrasonic & PIR Ceiling Mount

COS-L2T Series



SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Power Supply: TRP-24I or TRP-24B power packs provided separately.
- Warranty: 5 YRS.

ACCESSORIES

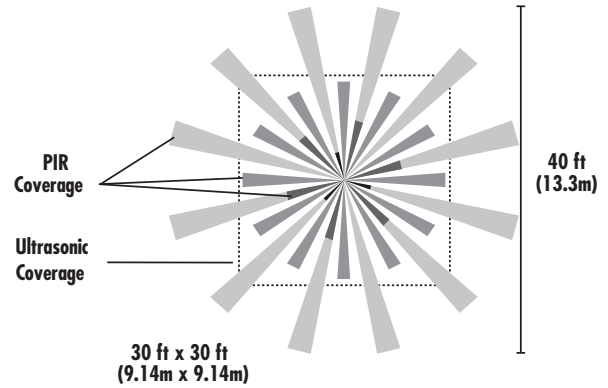
- COS-ADP: 1/2" pendant/side mounting adapter.
- TRP-24I: See page 413.

APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, bathroom & storage spaces.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
 - **Initial On:** customize and set one technology only to trigger turn on.
 - **Maintain On:** customize and set one technology to keep lights on.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Adjustable for three steps of sensitivity for ultrasonic and two steps for PIR.
- **Sensor Choices:** Factory default setting allows either technology to trigger the unit. Optional disable function of one technology for initial and/or maintain on operations.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **TRP Output:** TRP series is required to power the COS-L2T. A maximum of six Tork occupancy sensors may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.

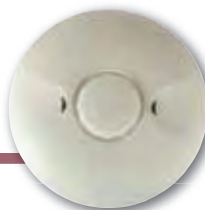


CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	CURRENT CONSUMPTION	DESCRIPTION
COS-L2T	cULus	98207	24VDC	1200 (PIR) 900 (Ultra-sonic)	9mA	White

OCCUPANCY SENSORS

PIR Ceiling Mount

COS-L Series



SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Power Supply: TRP-241 or TRP-24B power packs provided separately.
- Warranty: 5 YRS.

ACCESSORIES

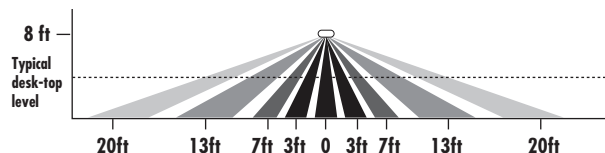
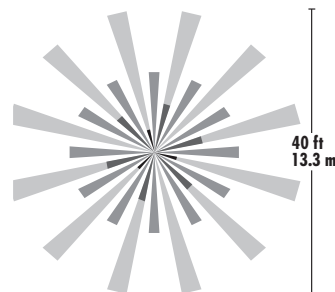
- COS-ADP: 1/2" pendant/side mounting adapter.
- TRP-241: See page 413.

APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, equipment room & storage spaces.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **TRP Output:** TRP series is required to power the COS-L. A maximum of six Tork occupancy sensors may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.



ACCESSORIES

COS-ADP

TRP-241/TRP-24B



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	CURRENT CONSUMPTION	DESCRIPTION
COS-L	cULus	98203	24VDC	1200	9mA	White

OCCUPANCY SENSORS

Ultrasonic Ceiling Mount

COS-LU Series



APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, bathroom & storage spaces.

FEATURES

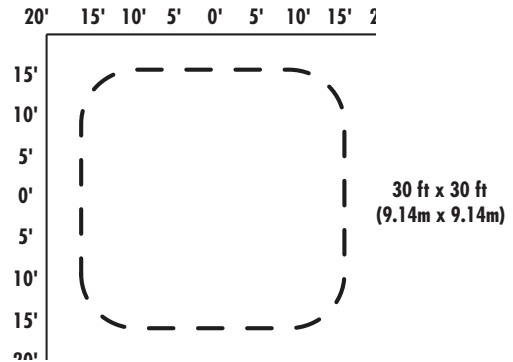
- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **TRP Output:** TRP series is required to power the COS-LU. A maximum of six Tork occupancy sensors may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.

SPECIFICATIONS

- **Operating Temperature:** 32 °F to 131 °F (0 °C to 55 °C).
- **Power Supply:** TRP-24I or TRP-24B power packs provided separately.
- **Warranty:** 5 YRS.

ACCESSORIES

- **COS-ADP:** 1/2" pendant/side mounting adapter.
- **TRP-24I:** See page 413.

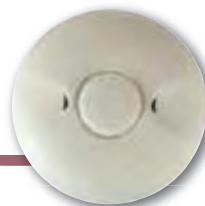


CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	CURRENT CONSUMPTION	DESCRIPTION
COS-LU	cULus	98205	24VDC	900	9mA	White

OCCUPANCY SENSORS

PIR Ceiling Mount, Line Voltage

COS-M Series



SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Power Supply: TRP-24I or TRP-24B power packs provided separately.
- Warranty: 5 YRS.

ACCESSORIES

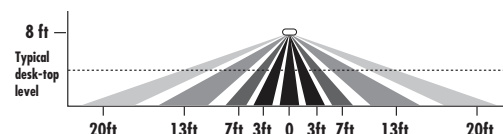
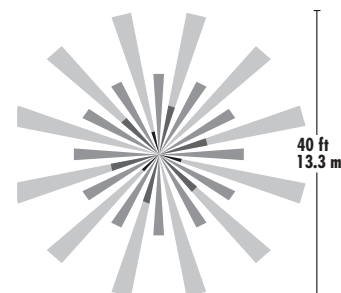
- COS-ADP: 1/2" pendant/side mounting adapter.
- TRP-24I: See page 413.

APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, equipment room & storage spaces.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	POWER SUPPLY	TUNGSTEN	RATING ELECTRONIC BALLAST (LED)	MOTOR	DESCRIPTION
COS-M	cULus	98201	120/230/277	1200	Built in	800W	1000W @ 120 1500W @ 230 1800W @ 277	1/4 HP @ 120	White

OCCUPANCY SENSORS

PIR Ceiling Mount, Line Voltage

HOS-M Series



SPECIFICATIONS

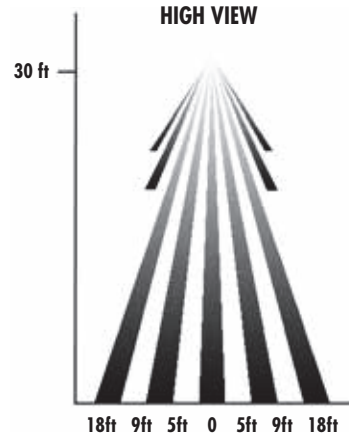
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

APPLICATIONS

- Warehouse, tall aisle, High ceiling equipment room, storage spaces.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple. Also mounts direct to box or ceiling.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

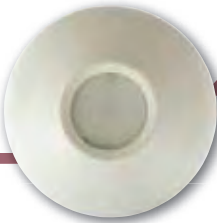


CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COVERAGE Sq. Ft.	POWER SUPPLY	TUNGSTEN	RATING ELECTRONIC BALLAST (LED)	MOTOR	DESCRIPTION
HOS-M	cULus	98209	120/230/277	1200	Built in	800W	1000W @ 120 1500W @ 230 1800W @ 277	1/4 HP @ 120	White

OCCUPANCY SENSORS

Ceiling Mount, Photo Sensor

CPS-L Series



APPLICATIONS

- Side window areas of offices.
- Spaces with skylights, classrooms.

FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Light Level Setting:** Light level between 5 to 200 fc.
- **TRP Output:** TRP series is required to power the CPS-L. A maximum of 12 Tork power packs may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.

SPECIFICATIONS

- **Operating Temperature:** 32 °F to 131 °F (0 °C to 55 °C).
- **Power Supply:** TRP-24I or TRP-24B power packs provided separately.
- **Warranty:** 5 YRS.

ACCESSORIES

- **COS-ADP:** 1/2" pendant/side mounting adapter.
- **TRP-24I:** See page 413.

ACCESSORIES	
COS-ADP	TRP-24I/TRP-24B
	

CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	CURRENT CONSUMPTION	DESCRIPTION
CPS-L	cULus	98211	24VDC	9mA	White

OCCUPANCY SENSORS

Power Packs

TRP-24 Series



APPLICATIONS

- Power and switching for occupancy or light sensors
- Power and switching for SS410 auto-off switch
- BAS compatible, demand shedding applications
- Low cost momentary switching of loads

FEATURES

- **Operation:** Switches line voltage loads ON/OFF based on a contact closure from an occupancy sensor, AUTO OFF switch, or relay.
- **Sensor Control:** Three wires for typical device control. Red and black wires for 24VDC output to power a device. Blue control wire to receive ON/OFF signal back from device.
- **TRP-24B Input:** Two additional input wires to control TRP.
 1. ON from momentary switch.
 2. OFF from momentary switch.
- **TRP-24I Input:** Four additional input wires to control TRP.
 1. Hold OFF for demand shed control.
 2. Hold ON override.
 3. ON from momentary switch.
 4. OFF from momentary switch.
- **TRP Output:** TRP series is a Class 2 Power Supply with 150mA output. A maximum of six TORK® COS-L type occupancy sensors may be connected.
- **Mounting:** Box mount to ½" KO.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

SPECIFICATIONS

- **Operating Temperature:** 32 °F to 131 °F (0 °C to 55 °C).
- **Warranty:** 5 YRS.

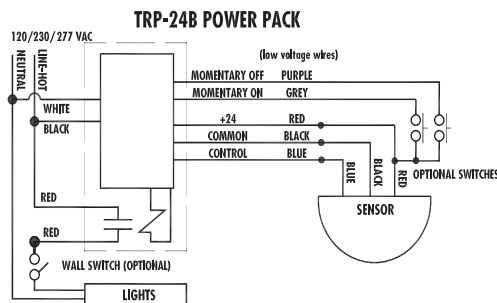
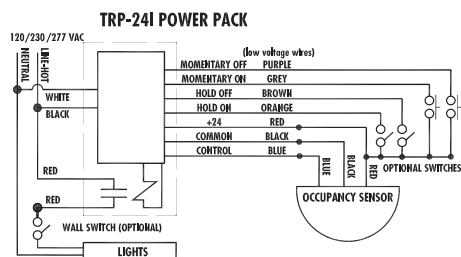
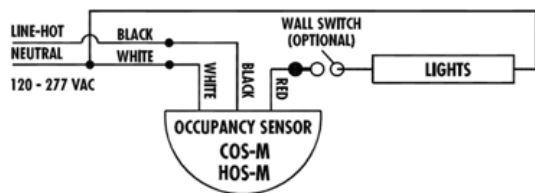
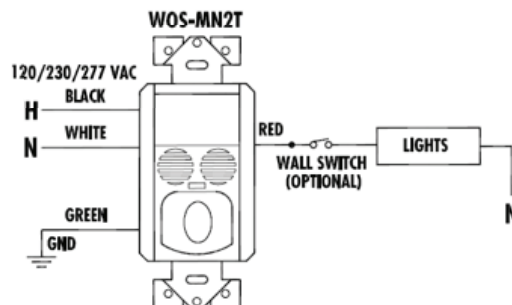
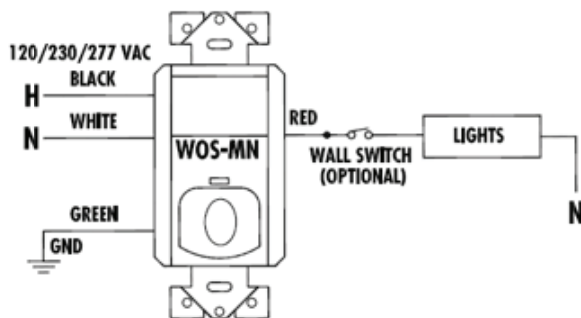
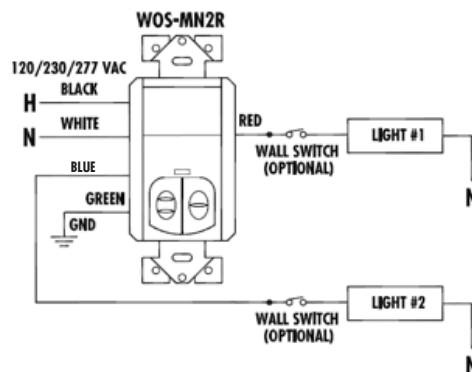
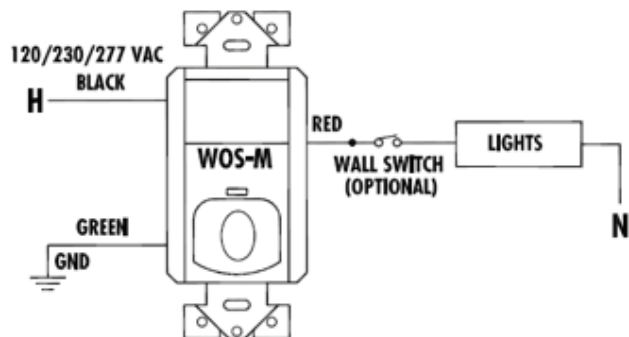
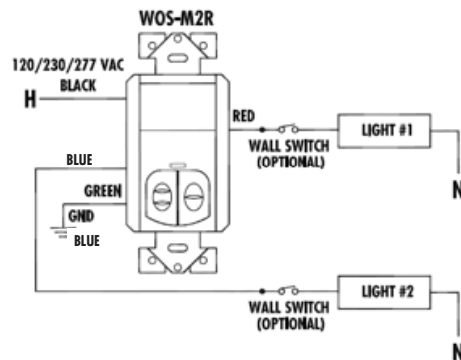
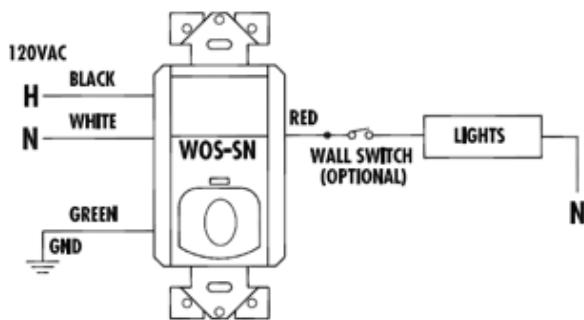
ACCESSORIES

- LCS115M: Momentary Switch SPST.



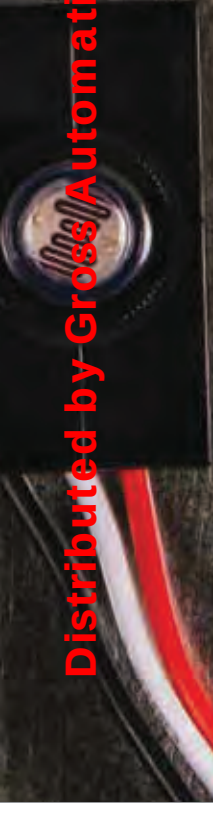
CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	OUTPUT CONTACTS	RATING		
					INCANDESCENT	BALLAST	MOTOR
TRP-24B	—	98225	120/230/277VAC	SPST	15A @120	20A	1 HP @ 120
TRP-24I	—	98227	120/230/277VAC	SPST	15A @120	20A	1 HP @ 120

OCCUPANCY SENSORS Wiring Diagrams





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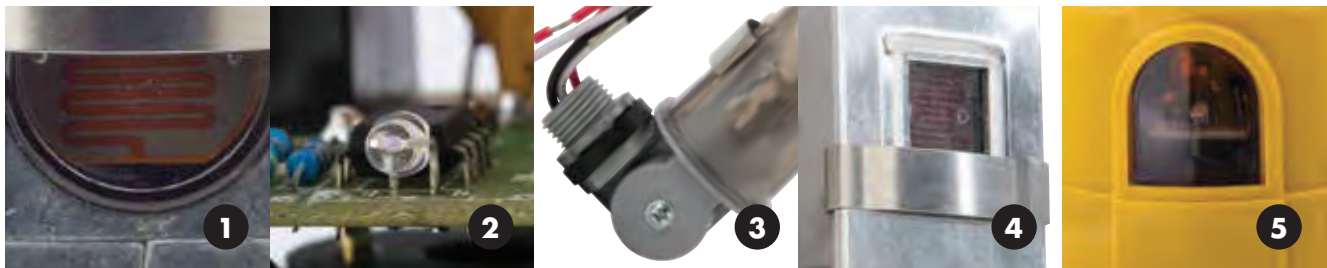


TORC[®] PHOTOCONTROL

QUICK REFERENCE GUIDE

	3000 SERIES	2100 SERIES	2110 SERIES	2000 SERIES	2001/ 2020 SERIES	5000M SERIES	2005A SERIES	5200A SERIES	2005B SERIES	5200-UL SERIES	ZTL SERIES	5737 SERIES
Page	422	423	424	425	426/427	428	429	430	431	432	433	434
Mounting	Flush	Conduit	Conduit	Conduit	Conduit	Turn-Lock	Turn-Lock	Turn-Lock	Turn-Lock	Turn-Lock	Turn-Lock	Turn-Lock
Adjustable Swivel					Yes							
Housing	Lexan®	Die Cast Zinc	Die Cast Aluminum	Lexan®	Lexan®	UV Stabilized Plastic	UV Stabilized Plastic	UV Stabilized Plastic	UV Stabilized Plastic	UV Stabilized Plastic	UV Stabilized Plastic	UV Stabilized Plastic
Turn ON Light Level	1 - 5 fc	1 - 5 fc	1 - 5 fc	1 - 5 fc	1 - 5 fc	1 to 3 fc	1 to 3 fc	1.5 fc	1.5 fc	1.5 fc	1.5 fc	5 fc
Light Level Adjustment		Yes	Yes	Yes	Yes (2001)							
Turn OFF Ratio	3:15 fc	3:15 fc	3:15 fc	3:15 fc	3:15 fc	5:1	3:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Time Delay ON	Yes	Yes	Yes	Yes	Yes	Yes	Instant	Instant	Instant	Instant	Instant	Instant
Time Delay OFF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Light Sensor	CdS	CdS	CdS	CdS	CdS	CdS	CdS	Filtered Silicon Sensor	Filtered Silicon Sensor	Filtered Silicon Sensor	Filtered Silicon Sensor	Silicon Sensor
CFL Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LED Rated	Yes	Yes	Yes	Yes	Yes				Yes	Yes	Yes	
Surge Protection		Yes (2129A)				Yes	Yes	Yes	Yes	Yes	Yes	Yes
Photo Timer												Yes

FEATURES



1. CONFORMAL COATED CDS SENSOR

Conformal coated cds photocell resists effects of moisture and airborne contaminants. Available in ½" and 1" size on both wired and turn-lock photocontrols. Excellent correlation with human eye spectral response.

2. SEALED IR FILTERED SENSOR

Non-drifting silicon light sensor filtered for human eye response. Molded design allows sensor to resist the effects of moisture and airborne contaminants. Available on turn-lock Photocontrols.

3. CHOICE OF MOUNTING ORIENTATION

Models are available in fixed position or 180° swivel.

4. TOUGH ENCLOSURES

All conduit and flush mounted models utilize die-cast zinc, die cast aluminum, or genuine Lexan® materials. All turn-lock models utilize high impact UV stabilized polypropylene, ABS, PBT or polycarbonate materials.

5. TURN-LOCK MEET ANSI C136.10

All models meet the current ANSI requirements for locking-type prongs and color coded voltage designations. Locking prongs are solid brass.

ANSI Dome Color-Code

Grey - 105-130VAC
Maroon - 208-277VAC
Blue - 105-285VAC
Yellow - 480VAC
Green - 347VAC

DEPENDABLE PERFORMANCE

Built-in time delay prevents false switching due to light from passing vehicles, lightning, etc.

SURGE PROTECTION

New! A stem mount photocontrol with MOV protection: 2129A. All Turn-Lock style photocontrols include MOV protection.

QUALITY ASSURANCE

TORK® Electromechanical Controls are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality expectations.

PHOTOCONTROLS
Flush Mount
Lexan® Housing
3000 Series



APPLICATIONS

- Pole lanterns.
- Lawn lighting.
- Walkways.

FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** Control housing is weather-resistant molded Lexan® with ultrasonically welded seams.
- **Model 3000:** Flush mounting through .6875" hole in post lantern or lighting fixture, 3/8" NPT, stem 3/4" long. Gasket and nut supplied.
- **Model 3010:** Flush mounting into standard, raintight junction box. Includes aluminum plate and gasket to fit FS type outdoor junction box.
- **Energy Savings:** Works with screw base CFLs.

SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, conformal coated 1/2" diameter.
- **Contacts:** Normally closed.
(The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 9" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	RATING		
				TUNGSTEN	BALLAST	LED
3000	cULus	60020	120	2000W	1800VA	600VA
3002	cULus	60019	208-277	3470-4620W	2080-2770VA	1040-1385VA
3006	CSA	60026	347	5760W	3470VA	—
3010	cULus	60021	120	2000W	1800VA	600VA

PHOTOCONTROLS

1/2" Conduit Mount

Specification Grade, Die Cast Zinc
2100 Series



APPLICATIONS

- Parking lots.
- Building perimeter lighting.
- Outdoor signage.

FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** Heavy Duty die cast zinc housing and base. Gasketed for maximum weather protection.
- **Energy Savings:** Works with screw base CFLs.
- **Surge Protection:** 2129A includes 190 joules MOV (Metal Oxide Varistor).

SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** 2101/2104 three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C. 2101A/2104A/2107 four color coded wires. 2107A/2129A five color coded wires.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

ACCESSORIES

- **73866:** See page 434.



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	MOV	VOLTAGE VAC 50/60Hz	RATING		
						TUNGSTEN	BALLAST	LED
2101	1	UL	60012	—	120	2000W	1800VA	600VA (LED for UL only)
2104	1	CSA	60013	—	208-277	2000W	1800VA	600VA (LED for UL only)
2107	1	CSA	60031	—	120/277	2000W	1800VA	600VA (LED for UL only)
2101A	2	cULus	62037	—	120	2000W	1800VA	600VA
2104A	2	cULus	62038	—	208-277	2000W	1800VA	600VA
2107A	2	cULus	62034	—	120/208-277	2000W/3470-4620W	1800VA/2080-2770VA	600VA/1040-1385VA
NEW! 2129A	2	cULus	60036	190J	120/208-277	2000W/3470-4620W	1800VA/2080-2770VA	600VA/1040-1385VA

PHOTOCONTROLS

1/2" Conduit Mount

Specification Grade, Die Cast Aluminum
2110 Series



APPLICATIONS

- Parking lot lighting.
- Building perimeter lighting.
- Outdoor signage.

FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** Die cast aluminum housing and base. Gasketed for weather protection.
- **Energy Savings:** Works with screw base CFLs.

SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter. Model 2117 and 2119A has a 1" photocell.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C. 2119A five color coded wires, 2117 #10AWG red and black.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

ACCESSORIES

- **73866:** See page 434.

2017	2119A	ACCESSORY 73866

CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	RATING		
				TUNGSTEN	BALLAST	LED
2115	cULus	60032	120	2000W	1800VA	600VA
2116	cULus	60033	208-277	3470-4620W	2080-2770VA	1040-1385VA
2117	CSA	60037	120	3000W	3000VA	—
NEW! 2119A	cULus	62035	120/208-277	2000W/3470-4620W	1800VA/2080-2770VA	600VA/1040-1385VA

PHOTOCONTROLS

1/2" Conduit Mount

Fixed Position, Lexan® Housing

2000 Series



APPLICATIONS

- Flood Lamp, patio Lamp.
- Decorative lighting.

FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.
- **Energy Savings:** Works with screw base CFLs.

SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

ACCESSORIES

- **73866:** See page 434.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	TUNGSTEN	RATING BALLAST	LED
2000	cULus	60017	120	2000W	1800VA	600VA
2000-2	cULus	60018	208-277	3470-4620W	2080-2770VA	1040-1385VA

PHOTOCONTROLS

1/2" Conduit Mount

180° Swivel, Lexan® Housing

2001 Series



APPLICATIONS

- Flood Lamp.
- Patio Lamp.
- Decorative lighting.

FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.
- **Energy Savings:** Works with screw base CFLs.

SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

ACCESSORIES

- **73866:** See page 434.

ACCESSORY
73866



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	RATING		LED
				TUNGSTEN	BALLAST	
2001	cULus	60015	120	2000W	1800VA	600VA
2002	cULus	60016	208-277	3470-4620W	2080-2770VA	1040-1385VA
2006	CSA	60028	347	5760W	3470VA	—
2018	—	62021	480	7500W	4800VA	—

PHOTOCONTROLS

1/2" Conduit Mount

180° Swivel, Lexan® Housing

2020 Series



APPLICATIONS

- Flood Lamp.
- Patio Lamp.
- Decorative lighting.
- Ideal for applications where it is essential to aim the photocell in an exact direction to sense natural light but avoid artificial light.

FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** All Lexan® enclosures are impact and vandal resistant, cover and base are ultrasonically welded for maximum strength.
- **Energy Savings:** Works with screw base CFLs.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	RATING		LED
				TUNGSTEN	BALLAST	
2021	cULus	60024	120	2000W	1800VA	600VA
2022	cULus	60025	208-277	3470-4620W	2080-2770VA	1040-1385VA



SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

ACCESSORIES

- **73866:** See page 434.

PHOTOCONTROLS
Turn-Locks
Thermal-Type
5000M Series



APPLICATIONS

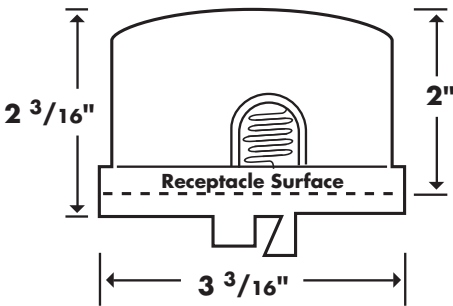
- For use on streets, highways and other luminaries equipped with locking type receptacles, where most stringent surge protection is needed.

FEATURES

- Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
 - 5008ME:** Uses a silicone photo sensor instead of a CdS photocell.
- Operation:** Delayed response prevents false switching due to light from vehicles or lighting, etc.
- Standards:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEL NEMA standards. ANSI DOME COLOR-CODE: Grey 105-130VAC, Maroon 208-277VAC, Blue 105-285VAC, Yellow 480VAC, Green 347VAC.
- Housing:** Polycarbonate housing and window, UV stabilized for permanent color. Provides high impact performance, flammability resistance, and electrically safe operations.

SPECIFICATIONS

- ON/OFF:** Turn-ON is 1 to 3 fc. Turn-OFF to Turn-ON ratio is 5 max.
- Time Delay:** ON and OFF.
- Cell:** CdS, epoxy conformal coated 1/2" and 1" diameter models.
- Surge Protection:** 380 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.
- Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- Power Consumption:** Averages under 1 watt.
- Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- Fail Mode:** ON.
- Warranty:** 5 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	LIGHT SENSOR	RATING	
					TUNGSTEN	BALLAST
5001M	cULus	61012	105-130	1"	2000W	1800VA
5004M	cULus	61013	208-277	1"	3470-4620W	2080-2770VA
5007M	cULus	61014	105-130/208-285	1/2"	2000W/3470-4620W	1800VA/2080-2770VA
NEW! 5008ME	—	61020	480	Silicone Sensor	7500W	4800VA
5021M	cULus	61015	105-130	1/2"	2000W	1800VA
5024M	cULus	61016	208-277	1/2"	3470-4620W	2080-2770VA
5026M	CSA	61045	347	1/2"	5760W	3470VA

PHOTOCONTROLS

Turn-Locks

HID Electronic CdS

2005A Series

APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

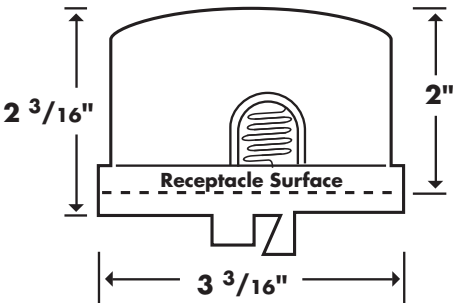
FEATURES

- Sensor:** Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- Standards:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.
- Housing:** Polypropylene, UV stabilized, permanent color with UV resistant clear acrylic window. Provides high impact, flammability resistance and electrically safe operations.
- Contacts:** DC relay has positive snap action switching, reducing bounce and prolonging contact life.



SPECIFICATIONS

- ON/OFF:** Turn-ON is 1.5 foot candle +/-0.5 OFF/ON ratio is 1.5:1 average.
- Time Delay:** Instant ON/3-5 seconds OFF.
- Cell:** CdS, epoxy conformal coated 1/2" diameter.
- Relay:** Rated life 6,000 operations.
- Surge Protection:** 360 joules MOV exceeds NEMA and ANSI requirements.
- Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- Fail Mode:** ON.
- Warranty:** 3 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COLOR	RATING	
					TUNGSTEN	BALLAST
2005A	cULus	62012	105-130	Grey	1000W	1800VA
2007A	cULus	62013	105-285	Blue	1000W	1800VA

PHOTOCONTROLS

Turn-Locks

HID Electronic

5200A Series



APPLICATIONS

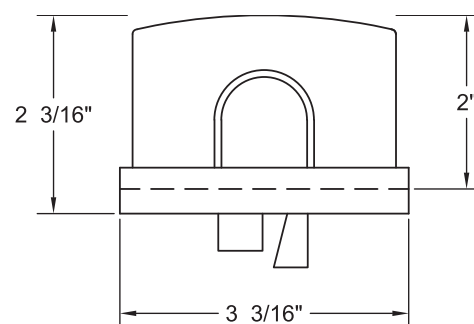
- Designed meet local utility standards for street and highway lighting controls..

FEATURES

- Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- Surge Protection:** 360 Joule MOV component helps provide superior Photocontrol and HID luminaire surge protection against unpredictable line voltage spikes.
- Relay:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.
- Weather:** UV stabilized Polycarbonate housing and window with conformal coated electronics maximizing protection against extreme weather elements and moisture.
- Safety:** Tested and certified to meet Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, fail-ON / fail-OFF, or delay times to meet your specific job requirement.

SPECIFICATIONS

- ON/OFF:** Turn ON is 1.5 foot candle +/- 0.2 OFF/ON ratio is 1.5:1 average*.
- Time Delay:** Instant ON/3-5 second OFF.
- Cell:** Molded sealed IR filtered sensor.
- Relay:** Rated life 10,000 operations.
- Surge Protection:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.
- Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- Fail Mode:** ON.
- Warranty:** 5 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COLOR	RATING	
					TUNGSTEN	BALLAST
5231A	—	78898	105-130	Grey	1000W	1800VA
5237A	—	78899	105-305	Blue	1000W	1800VA

PHOTOCONTROLS

Turn-Locks

LED Electronic

2005B Series

APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

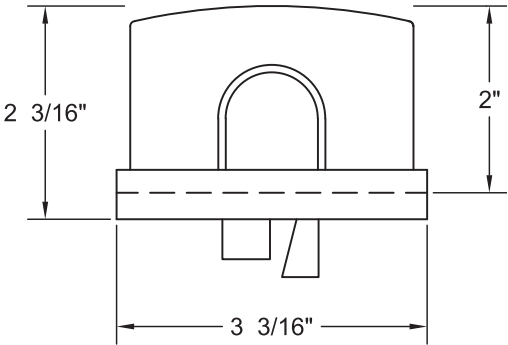
FEATURES

- Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- Surge Protection:** 360 Joule MOV component helps provide superior Photocontrol and LED luminaire surge protection against unpredictable line voltage spikes.
- Relay:** UL Listed DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.
- Weather:** UV stabilized Polycarbonate housing and window maximizing protection against extreme weather elements and moisture.
- Safety:** Tested and certified to meet both UL773 and CSA Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- Energy Savings:** Rated for use with LED lamp drivers.
- Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, fail-ON / fail-OFF, or delay times to meet your specific job requirement.



SPECIFICATIONS

- ON/OFF:** Turn-ON is 1.5 foot candle +/-0.5 OFF/ON ratio is 1.5:1 average.
- Time Delay:** Instant ON/3-5 seconds OFF.
- Cell:** Molded sealed IR filtered sensor.
- Relay:** Rated life 12,000 operations.
- Surge Protection:** 360 joules MOV exceeds NEMA and ANSI requirements.
- Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- Fail Mode:** ON.
- Warranty:** 6 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COLOR	RATING		
					TUNGSTEN	BALLAST	LED
2005B	cULus	62015	105-130	Grey	1000W	1800VA (1000VA cUL)	4 Amps
2007B	cULus	62016	105-305	Blue	1000W	1800VA (1000VA cUL)	4 Amps
2008B	—	62017	400-550	Yellow	1000W	1800VA	—

PHOTOCONTROLS

Electronic Instant Response Turn-Lock

LED Photocontrol Longer Life

5200-UL



APPLICATIONS

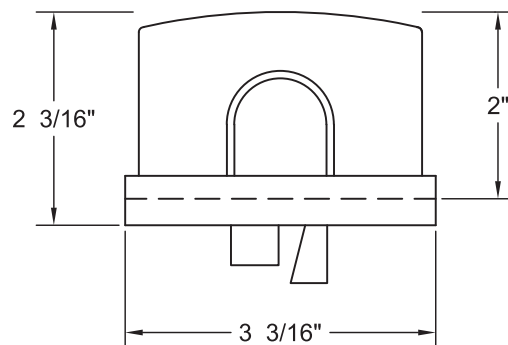
- Designed meet local utility standards for street and highway lighting controls.
- All LED, CFL, Induction, HPS, MH and HID lighting fixtures requiring instant response dusk-to-dawn control.
- Ideal for roadway, area, parking, flood and security type lighting fixtures.

FEATURES

- **Longer life:** Backed by a 8-Year Warranty components exceed the 10-year life requirement suitable for HID and most LED fixtures.
- **Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- **Surge Protection:** 360 Joule MOV component helps provide superior Photocontrol and LED luminaire surge protection against unpredictable line voltage spikes.
- **Relay:** UL Listed DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.
- **Weather:** UV stabilized Polycarbonate housing and window with conformal coated electronics maximizing protection against extreme weather elements and moisture.
- **Safety:** Tested and certified to meet both UL773 and CSA Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Energy Savings:** Rated for use with LED lamp drivers.
- **Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, fail-ON / fail-OFF, or delay times to meet your specific job requirement.

SPECIFICATIONS

- **ON/OFF:** Turn-ON is 1.5 foot candle +/-0.2 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/2-5 seconds OFF.
- **Cell:** Molded sealed IR filtered sensor.
- **Relay:** Rated life 12,000 operations.
- **Surge Protection:** 360 joules MOV (Metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 8 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COLOR	RATING		
					TUNGSTEN	BALLAST	LED
5237-UL	cULus	78895	105-305	Blue	1000W	1800VA (1000VA cUL)	4A 1000W@277VAC

PHOTOCONTROLS

Electronic Instant Response Turn-Lock

LED Photocontrol Long Life

ZTL Series



APPLICATIONS

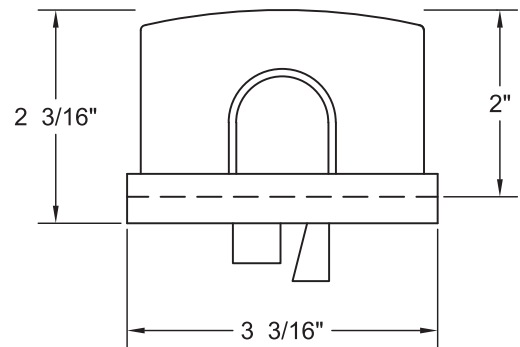
- Designed meet local utility standards for street and highway lighting controls.
- All LED, CFL, Induction, HPS, MH and HID lighting fixtures requiring instant response dusk-to-dawn control.
- Ideal for roadway, area, parking, flood and security type lighting fixtures.

FEATURES

- **Zero-Cross (LED):** The ZTL Series Photocontrol is microprocessor controlled with enhanced ZERO-CROSS Switching Technology allowing it to withstand the high inrush currents commonly found in all LED Luminaires.
- **Long Life:** Backed by a 15-Year Warranty, all electrical components are to exceed 15,000 ON/OFF operations and the 20 year long-life requirements needed for today's LED luminaires.
- **Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- **Surge Protection:** Enhanced 510 Joule MOV component helps provide superior Photocontrol and LED luminaire surge protection against unpredictable line voltage spikes.
- **Relay:** UL Listed industrial strength DC relay with positive snap action technology virtually eliminating bounce and ensuring a secure contact at each switch cycle.
- **Weather:** UV stabilized Polycarbonate housing and window with conformal coated electronics maximizing protection against extreme weather elements and moisture.
- **Safety:** Tested and certified to meet both UL and CSA Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Energy Savings:** Rated for use with LED lamp drivers.
- **Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, special packaging or superior surge protection magnitude to meet your specific job requirement.
- **ZTL124F**
 - **Fail OFF:** Protects LED drivers from daytime operation where additional daytime heat gain degrades electronic drivers.

SPECIFICATIONS

- **ON/OFF:** Turn-ON is 1.5 foot candle +/-0.2 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/3 seconds OFF.
- **Cell:** Molded sealed IR filtered sensor.
- **Relay:** Rated life 15,000 operations.
- **Surge Protection:** 510 joules MOV (Metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Custom:** Available for custom design to meet specific utility specification.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Tungsten/Ballast:** 1000W/1800VA.
- **Electronic Ballast/LED:** 8A or totaling 2220W@277VAC.
- **Limited Warranty:** 15 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COLOR	MOV	RATING		
						TUNGSTEN	BALLAST	ELECTRONIC BALLAST (LED)
ZTL124	cULus	78909	105-305	Blue	510J	1000W	1800VA (1000VA cUL)	8A or 2220W@277VAC
ZTL124F	cULus	78908	105-305	Green	510J	1000W	1800VA (1000VA cUL)	8A or 2220W@277VAC

ZTL124 PHOTOCONTROL															
Z		TL		124											
TECHNOLOGY		TYPE		VOLTAGE		COVER COLOR		TURN-ON LEVEL (fc)		FAIL MODE		MOV RATING		PACKAGING QTY/COLOR	
Z	ZERO-CROSS	TL	TURN-LOCK	124	105-305VAC	BLANK	ANSI STD. COLOR	BLANK	1.5 ANSI STD.	BLANK	ON	BLANK	510J	BLANK	1 UNIT 4 COLOR
						*BR	BROWN	*10	1.0 fc ENERGY SAVER	F	OFF	*1020J	1020J	*12	12 UNITS 1 COLOR
						*BK	BLACK	*26	2.6 fc IES RECOMMENDATION					*50	50 UNITS 1 COLOR
						*OR	ORANGE	*35	35 fc FAA						
						*GR	GREEN	*80	8.0 fc METRO - HIGH AMBIENT						
* Special order - Consult factory for availability and pricing.															

* Special order - Consult factory for availability and pricing.

PHOTOCONTROLS

ON/OFF Dusk-to-Dawn

ON at Dusk, OFF at Midnight

5737 Series

CA
TITLE 24



APPLICATIONS

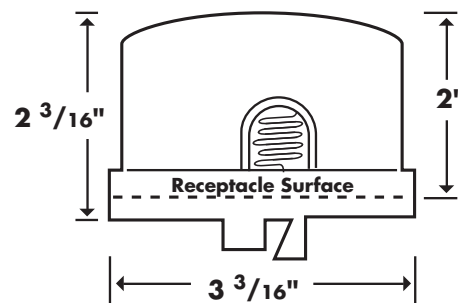
- Offices, restaurant signage, billboards, landscape and yard lighting.
- Ideal for situations when visible traffic is reduced — lights ON at dusk and OFF at 10pm or later, then on again for early morning illumination.

FEATURES

- **Operation:** Microprocessor tracks the dusk and dawn times with the seasons and automatically determines midnight, NO PROGRAMMING REQUIRED. Automatically "re-learns" and resets after power outage, eliminating costly maintenance. DST correction built in.
- **Standards:** Meets ANSI C136.10 including color designations. Also meets EEL NEMA standards.
- **Housing:** UV stabilized, ANSI color-coded polypropylene dome. UV stabilized, clear acrylic window. ABS base. Cross-linked, polypropylene gasket.
- **Contacts:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

SPECIFICATIONS

- **ON/OFF:** Turn ON at dusk is 5.0 foot candle +/- 0.5 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/3-5 seconds OFF.
- **Cell:** Silicon photosensor.
- **5737TM Half-Night Function:** Allows user to adjust OFF time during the night. OFF time can be set for up to two hours before (for extra energy savings) or up to two hours after midnight. Use to stagger groups of lights to go OFF at different times during the night.
- **5737TZ Two Function:**
 - Standard: Set as a Dusk to Dawn photocontrol.
 - Half-night & Pre-Dawn: Turns on at Dusk. User adjusts OFF time for up to two hours before or after midnight. Then set countdown to Pre-dawn ON again 2 - 10 hours later. It always turns OFF at Dawn.
- **Surge Protection:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 3 years.



CAT. NO.	CERTIFICATION	UPC CODE	VOLTAGE VAC 50/60Hz	COLOR	SWITCH	RATING	
						TUNGSTEN	BALLAST
5737TZ	—	62010	105-305	Blue	SPST	1000W	1800VA
5737TM	—	62009	105-305	Grey	SPST	1000W	1800VA

PHOTOCONTROLS

Contactors with Turn-Lock

5400A Series



SPECIFICATIONS

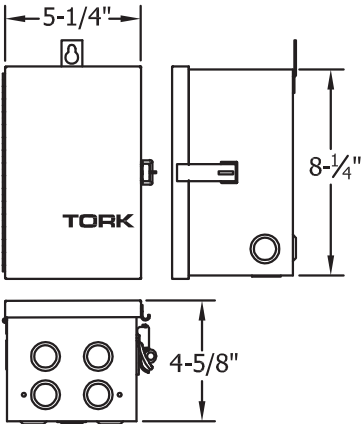
- Receptacle: 3-prong turn-lock meets the requirements of EEL NEMA.
- Power Consumption: Maximum 3 watts during daylight.
- Switch Type: 3PST

APPLICATIONS

- For street lighting. Controls all lighting loads in excess of the capacity of the photoelectric control contacts.

FEATURES

- **Operation:** Instant ON and 3-5 second delay OFF to prevent false switching due to light from passing vehicles, lighting, etc. Photocontrol provides dusk to dawn control of lighting contractor for heavy duty switching.
- **Standards:** Meets UL773 and ANSI C136.10 for photocontrols.
- **Housing:** Outdoor NEMA Type 3R. Grey enamel finish. Two 1/2" – 3/4" combination KO in bottom.



CAT. NO.	CERTIFICATION	UPC CODE	PHOTOCONTROL INCLUDED	VOLTAGE VAC 50/60Hz	RESISTIVE	RATING		
						TUNGSTEN	ELECTRONIC BALLAST (LED)	MOTOR
5403A	cULus	81012	2005B	120	40A	30A	40A	3HP @ 120 7.5HP @ 240
5404A	cULus	81013	2007B	208-240	40A	30A	40A	3HP @ 120 7.5HP @ 240
5404-3A	cULus	81014	2007B	277	40A	30A	40A	3HP @ 120 7.5HP @ 240

PHOTOCONTROL ACCESSORIES

For Turn-Lock Controls

NOTE

- NSi offers many splicing options to complete the pole installation. See the splicing section pages 198 - 213.

REPLACEMENT CAPS

- 5500: replaces photocontrol to change light fixture to always ON.
- 5500-OC: replaces photocontrol to change light fixture to always OFF.
- Durable materials and gasket provide longevity and weatherproof protection.

MOUNTING BRACKET

- 73866: Utility mounting bracket for 1/2" threaded conduit photocontrols.

RECEPTACLE

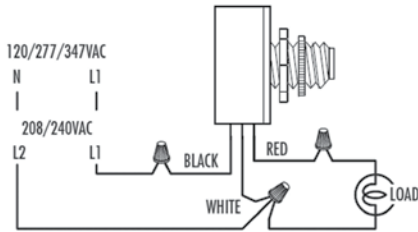
- 2224: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, mounting bracket and one mounting screw.
- 2223: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, gasket and two mounting screws.
- 2421: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, plastic housing, lock nut (with 1/2" NPT) and a mounting bracket.
- 2227: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, gasket and two mounting screws.



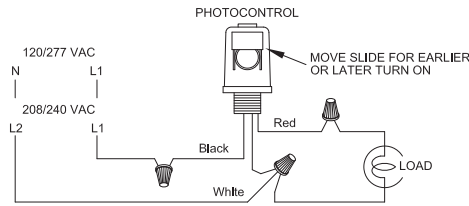
CAT NO.	FIG. NO.	CERTIFICATION	UPC CODE	TYPE	DESCRIPTION
5500	1	cETLus	61130	Replacement Caps	Shorting cap, 480VAC max., 1800W Tungsten, 1800VA Ballast
5500-OC	2	cETLus	61132	Replacement Caps	Open cap, 480VAC max. (Black housing)
73866	3	—	62020	Mounting Bracket	Mounting Bracket
2224	4	cULus	61026	Receptacle	3-Pin Receptacle and mounting bracket
2223	5	cULus	61025	Receptacle	3-Pin Receptacle with gasket
2421	6	cULus	61021	Receptacle	3-Pin Receptacle with plastic housing and bracket
2227	7	cRUus	61030	Receptacle	7-Pin receptacle with gasket

PHOTOCONTROL Wiring Diagrams

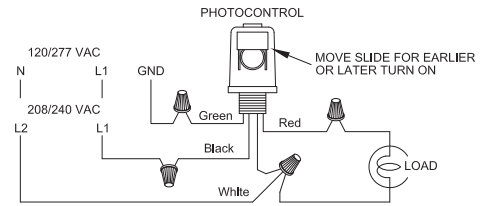
3000 Series



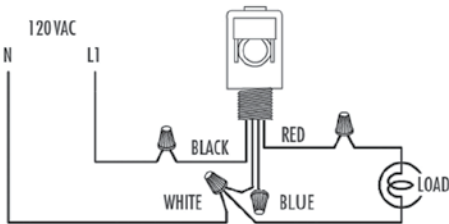
2101 & 2104



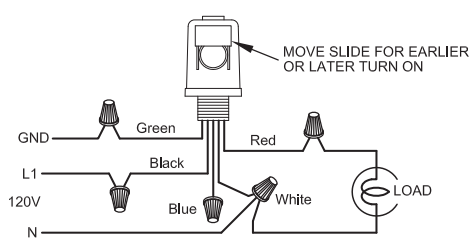
2101A /2104A



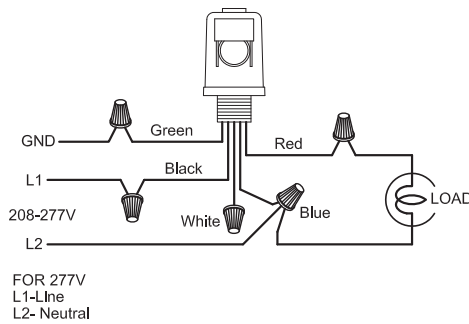
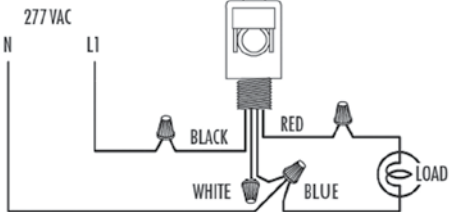
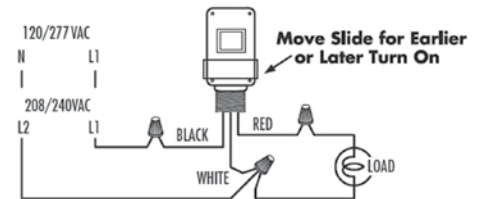
2107



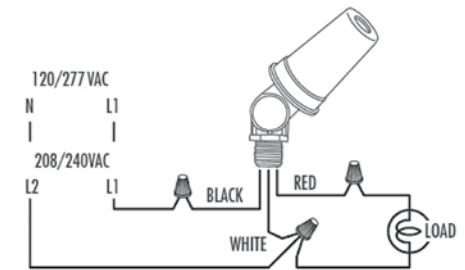
2107A/2129A/2119A



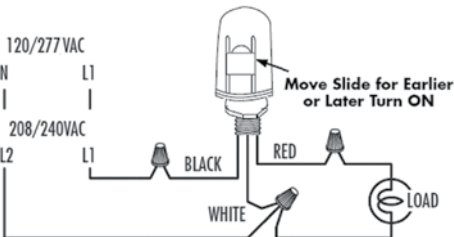
2115, 2117 & 2116



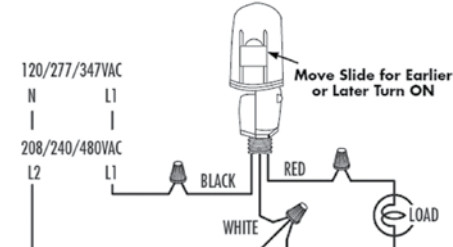
2020 Series



2000 Series

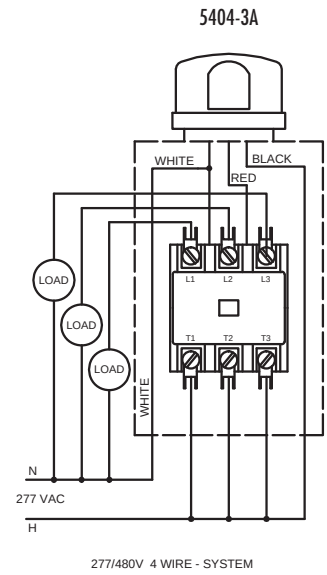
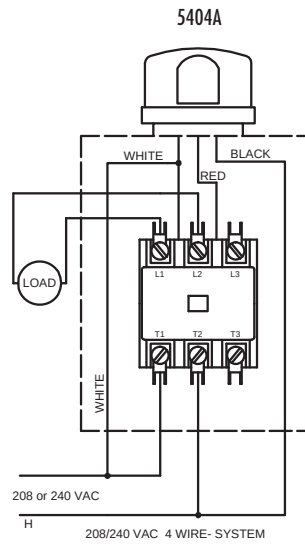
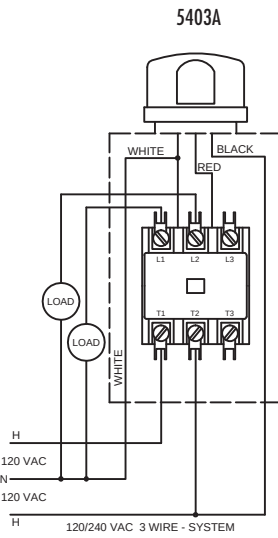
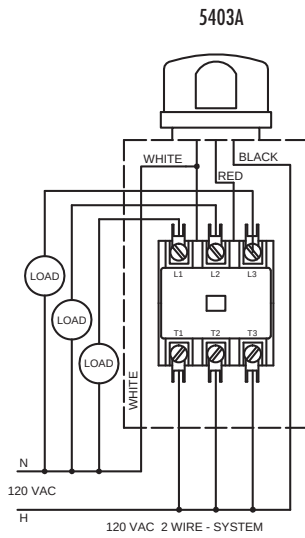


2001 Series



PHOTOCONTROL Wiring Diagrams

5400A Series





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TORKALERT™

TORKALERT™ Mechanical & Strobe Horns

STROBE HORNS - See Fig. 1

APPLICATIONS

- High performance for industrial signaling applications. Offers high sound output, low current draw and dependable operation.
- Strobes use xenon flashtube, ideal for maximum efficiency and reliability.
- **Note:** TA880-N5 For outdoor use, unit must be mounted in a TA-WBBF outdoor backbox. TA5508H-G1 for indoor mounting only.

FEATURES

- **Alarm:** Penetrating mechanical sound.
- **Wiring:** Low current draw. Horn may be wired separately
- **Mounting:** 4" square surface mounting.

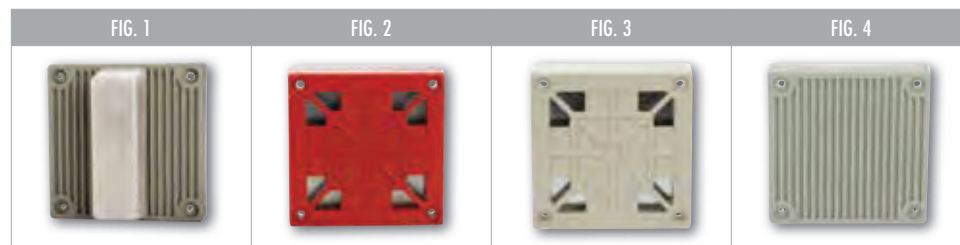
MECHANICAL HORNS - See Fig. 2-4

APPLICATIONS

- Loud tone with typical decibel output of 87dB at 10 feet. Low frequency resonance for strong penetration of noisy areas like boiler rooms, water pumping stations, elevators and air compressor rooms.
- **Note:** Use TORK® signal timers for 24 hour or 7 day scheduling, see page 358.

FEATURES

- **Input Voltage:** Wide input voltage ratings for compatibility with unregulated power supplies.
- **Wiring:** Screw terminals for convenient IN/OUT wiring. Low current draw for minimizing power supply and wiring cost.
- **Housing:** Steel, painted Down Mist. Resonant grill design for high sound output.
- **Mounting:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 453.



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	INPUT VOLTAGE	INPUT CURRENT (AMPS)	dB @10 FEET	CANDELA
TA880-N5	1	cULus	96015	120VAC	0.115	96	15
TA874-N5R (Red)	2	UL	97613	120VAC, 60Hz	0.070	87	—
TA874-N5	3	UL	96023	120VAC, 60Hz	0.070	87	—
TA875-G1	4	UL	97687	24VDC	0.035	—	—
WITH WEATHERPROOF BACKBOX TA-WBBF UL LISTED FOR OUTDOOR USE							
TA876-N5	3	UL	96026	120VAC, 60Hz	0.070	87	—

TORKALERT™

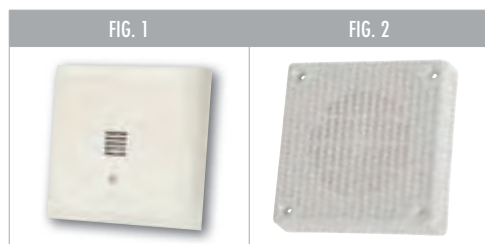
Multi-Tone Electronic Horns

APPLICATIONS

- For indoor and outdoor use. Superior sound penetration for various room conditions. Screw terminals accept #12AWG.

FEATURES

- Operating Temperature: TA-MTS: -31°F to +150°F (-35°C to +66°C).
- Dimensions And Mounting:
 - TA-MTS: 4 1/8"H x 4 1/8"W x 3 17/32"D Can be mounted on ceiling or wall.
 - TA875-1G1: 4 3/4"H x 4 3/4"W x 1 3/8"D 1 gang, 2 gang or 4" square backbox.



CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	INPUT VOLTAGE	DESCRIPTION
TA875-1G1	1	cULus	97641	20-31VDC	Multi-tone Electric Horn
TA-MTS	2	UL	97674	115 VAC	Multi-tone Electric Horn

TA875-1G1 24VDC HORN		
ALARM TONE	CURRENT (AMPS)	TYPICAL dB @10 FEET
BELL	0.020	91
HI-LO	0.025	96
CHIME	0.028	93
SINGLE STROKE BELL	0.026	93
HORN	0.023	97
3 BEEPS, PAUSE	0.023	97
SIREN	0.040	95
SLOW WHOOP	0.040	96

TA-MTS 115VAC HORN				
ALARM TONE	AMPS @ 120VAC		TYPICAL dB @10 FEET	
	HIGH	STANDARD	HIGH OUTPUT	STD. OUTPUT
HORN	0.050	0.042	85	82
BELL	0.041	0.039	82	75
HORN 2	0.050	0.040	85	79
CODE 3 HORN	0.050	0.042	82	75
CODE 3 TONE	0.042	0.040	79	75
SLOW WHOOP	0.050	0.042	85	82
SIREN	0.045	0.041	85	82
HI-LO	0.042	0.039	82	79

TORKALERT™ Heavy Duty Bells

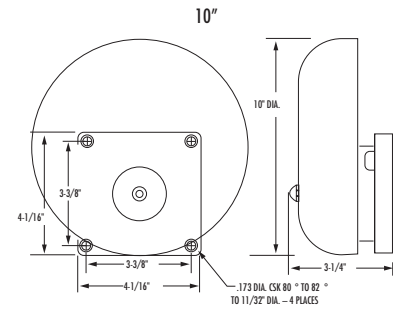
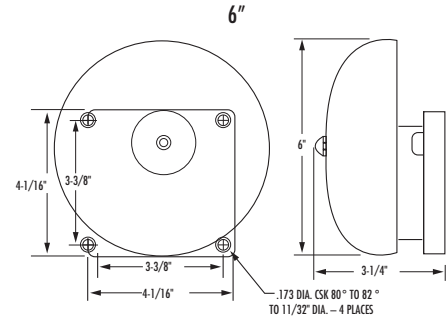


APPLICATIONS

- For indoor or outdoor applications. High sound output, durable and dependable performance. Ideal for schools and hospitals.

FEATURES

- **Terminal Size:** #12 - 22 AWG.
- **Wiring:** Screw terminals permit fast IN/OUT field wiring.
- **Housing:** Steel gong and cast aluminum. See dimensional drawings.
- **Mounting:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 453.



CAT. NO.	UPC CODE	SHELL SIZE	VOLTAGE	INPUT CURRENT (AMPS)	dB@ 10 FEET	COLOR
TA340-6G5	96003	6"	24VAC	0.320	81-95	Dawn Mist
TA340-6N5	96004	6"	120VAC	0.065	81-95	Dawn Mist
TA340-10G5	96005	10"	24VAC	0.320	84-98	Dawn Mist
TA434-6N5	97521	6"	120VAC	0.065	81-95	Red
TA434-10N5	96522	10"	120VAC	0.065	84-98	Red

TORKALERT™

Light Duty, General Purpose Bells & Buzzer

APPLICATIONS

- Designed to operate on either bell ringing transformers or batteries. Non-adjustable sound.

FEATURES

- Alarm: Bell ringing, non-adjustable sound.
- Dimensions For Ta725: 3" H x 2 1/2" W x 1" D.
- Mounting: Fully enclosed sturdy steel bases and covers. Base and cover snap together, no screws required.



CAT. NO.	FIG. NO.	UPC CODE	DESCRIPTION	VAC	VDC	AMPS	dB
TA740	1	96228	2 1/2" Gong	8-16	3-6	1	76 @ 10'
TA744	2	96230	4" Gong	8-16	3-6	1	78 @ 10'
TA725	3	96226	Buzzer	8-16	3-6	1	88 @ 3'

TORKALERT™

Chime & Chime Kits

APPLICATIONS

- Powerful and loud, pleasant sounding push-button chimes. Ideal for homes, apartments and offices.

FEATURES

- Input: 16V, 10VA, 120VAC.
- Alarm: Chime.
- Mounting: Fully enclosed sturdy steel bases.



CAT.NO.	FIG. NO.	UPC CODE	DESCRIPTION	DIMENSIONS
TAC212WS	1	96064	16VAC Chime + Push Button clip for Stucco + 10VA Transformer	7 3/16"L x 4"W x 2"D
TAC212WL	2	96054	16VAC Chime +1 Illuminated & 1 Non-illuminated Push-button +10VA Transformer	7 1/4"L x 4 3/4"W x 2 1/2"D

TORKALERT™

Quartz Wall Clocks



APPLICATIONS

- Model meets United States Government Specifications. Provides second hand for accurate timing.

FEATURES

- Quartz: Accurate to one minute per year. Low power consumption for long battery life.Uses AA battery (not supplied).
- Mounting: Concealed mounting brackets allow for simple, neat placement on walls.

CAT. NO.	FIG. NO.	UPC CODE	TYPE	SIZE	FRAME COLOR
TA1887 G	1	96159	QUARTZ	12"	Grey



TORKALERT™ Weatherproof Motor Driven Siren & Fire Alarm Station

MOTOR SIREN - See Fig. 1

APPLICATIONS

- For industrial and outdoor use. Ideal for evacuation and warning systems.

FEATURES

- Input Voltage:** 120AC & DC, 60Hz.
- Alarm:** Loud, distinctive tone. Designed to be effective over standard horns or bells.
- Housing:** Red enamel paint over heavy gauge aluminum housing. Fully enclosed motor. 180° swivel and adjustable direction.

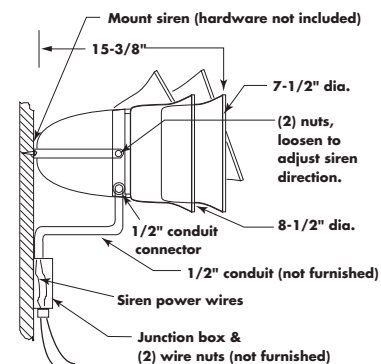
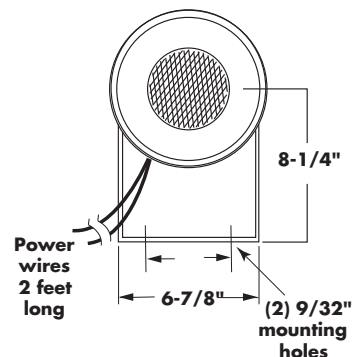
FIRE ALARM STATION - See Fig. 2

APPLICATIONS

- Designed for indoor use. Ideal for schools, hospitals, industrial plants, warehouses and retail stores. Meets requirements, BSA, MEA, CA and UL.

FEATURES

- Alarm:** Loud, distinctive tone. Designed to be compatible with any control panel to initiate local alarm signals, trip municipal fire alarm box and start fire pumps.
- Mounting:** Sturdy metal construction, mounts to a standard single gang electrical box.



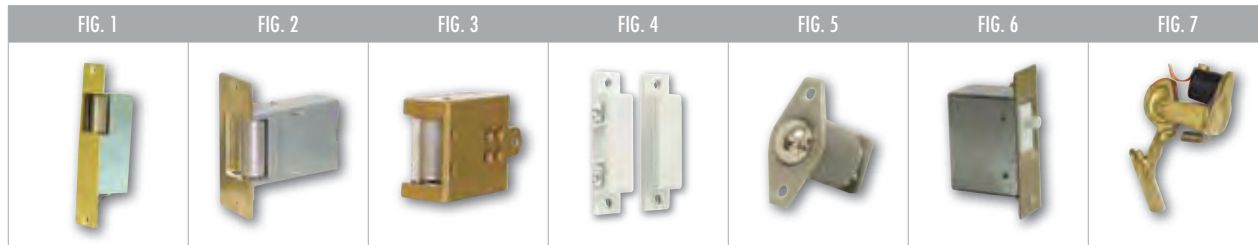
CAT. NO.	FIG. NO.	UPC CODE	SWITCH	INPUT VOLTAGE	dB @10 FEET	AMPS	VA
TA315-1N5	1	96599	—	120VAC/DC	117	2.5	300
TA270A	2	96521	SPST, NO	30V AC/DC	—	1	—

APPLICATIONS

- For unlocking or locking metal or wooden doors using low voltage wiring. For AC, use TA591 or TA592 transformer.

FEATURES

- Mortise Type Remote Opener:** Reversible for right or left hand door. Use with mortise entrance locks having a latch bolt with up to 1/2" width and throw. 6" wire leads.
- Rim Type Remote Opener:** Reversible for right or left hand door. Standard surface type used with lock latches with up to 5/8" width and throw. 6" wire leads.
- Magnetic Switch Contacts:** For activating a variety of signals, ideal for limiting space applications. Self-insulating and can be mounted in any direction. All units include companion magnet. Dimensions: 23/16"L x 1/2"W x 1/2"D.
- Door/Window Contacts, Rolling Ball Type:** Signals automatically with the opening and closing of doors, windows and transoms. Operates from pressure in any direction. Non-tilt, non-jamming design. Fits 3/4" hole; no need to mortise.
- Electric Door Switch:** For turning lights/signals on or off when doors are opened or closed. Ideal for closets, dark rooms, storage areas of walk-in refrigeration. Rust resistant steel case with 4 knockouts, antique brass plate. Box dimensions: 1 1/4"W x 3 7/8"H x 2"D. Plate dimensions: 1 1/4"W x 4".
- Door Trip Switch:** Signals automatically as door is opened. Commonly used on store doors to announce entrance of customers. Mounts on top of door frame. Solid cast brass. Size: 3 x 15/8".



CAT NO.	FIG. NO.	TYPE	UPC CODE	DESCRIPTION	VOLTS	AMPS
TA09	1	Mortise type remote opener	96960	—	8-16VAC, 3-6VDC	.95-1.75, 1.25-1.80
TA154	2	Rim type remote opener	96962	—	16VAC, 3-6VDC	.95-1.75, 1.25-1.80
TA152	3	Rim type remote opener	96961	—	8-16VAC, 3-6VDC	—
TA60	4	Magnetic switch contacts	96975	Circuit closed with magnet engaged	—	—
TA61	4	Magnetic switch contacts	96976	Make & break NO and NC	24VAC, 12VDC	.5
TA62	4	Magnetic switch contacts	96977	Circuit open with magnet engaged	—	—
TA67W	4	Magnetic switch contacts	96979	Terminal Cover	—	—
TA44	5	Door/window contact, rolling ball type	96995	Normally closed Push to open	12-24V, AC/DC	2
TA45	5	Door/window contact, rolling ball type	96996	Normally open Push to close	12-24V, AC/DC	24
TA46	5	Door/window contact, rolling ball type	96997	Momentary contact Push to make & break	12-24V, AC/DC	24
TA502	6	Electric door switch	96964	Light ON when door is open	125VAC, 250VAC	6, 3
TA236	7	Door trip switch	96963	—	12-24VAC	2

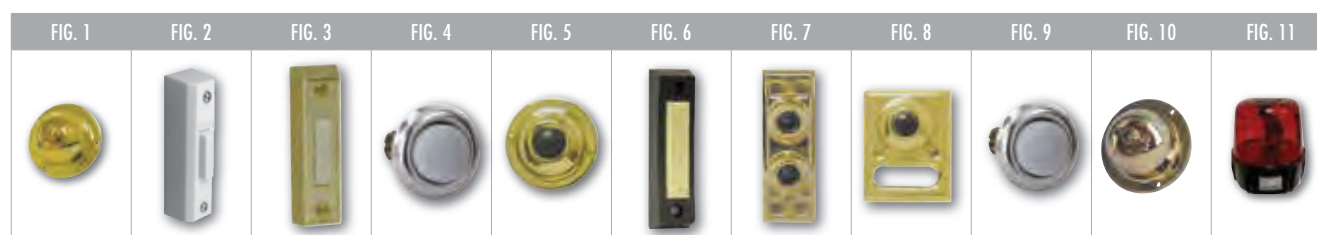
TORKALERT™

Push-Buttons

Illuminated, Non-Illuminated & Weatherproof

APPLICATIONS

- For outdoor use to activate low voltage bells, buzzers, horns or any other audible signal. Ideal for factory doors, receiving departments, small office buildings, limited access retail stores and private homes.



CAT. NO.	FIG. NO.	TYPE	UPC CODE	DESCRIPTION	INPUT VOLTAGE	COLOR	SIZE
TA603L	1	Illuminated Push-Buttons, Up To 16Vac	96035	—	—	Gold	1 3/4" (diameter)
TA631L	2	Illuminated Push-Buttons, Up To 16Vac	96089	—	—	White	2 3/4" x 7/8"
TA656B	3	Illuminated Push-Buttons, Up To 16Vac	96039	—	—	Gold	15/16 x 2 3/4"
TA620L*	4	Illuminated Push-Buttons, Up To 16Vac	96037	—	—	Chrome	5/8" (diameter)
TA620LB*	4	Illuminated Push-Buttons, Up To 16Vac	96038	—	—	Brass	5/8" (diameter)
TA600	5	Non-Illuminated Push-Buttons, Up To 24Vac	96041	—	—	Polished Brass	2 1/4" (diameter)
TA603	5	Non-Illuminated Push-Buttons, Up To 24Vac	96044	—	—	Polished Brass	1 3/4" (diameter)
TA631	6	Non-Illuminated Push-Buttons, Up To 24Vac	96088	—	—	White	2 3/4" x 7/8"
TA666BK	6	Non-Illuminated Push-Buttons, Up To 24Vac	96048	—	—	Black, ivory bar	2 3/4" X 2 3/4"
TA602	7	Non-Illuminated Push-Buttons, Up To 24Vac	96043	—	—	Polished Brass	1 3/8" x 5 1/4"
TA601	8	Non-Illuminated Push-Buttons, Up To 24Vac	96042	—	—	Sprayed Brass	2 x 2 9/16"
TA620*	9	Non-Illuminated Push-Buttons, Up To 24Vac	96045	—	—	Chrome	5/8" (diameter)
TA620B*	9	Non-Illuminated Push-Buttons, Up To 24Vac	96046	—	—	Brass	5/8" (diameter)
TA1786B	10	Weatherproof Push-Buttons / Solid Cast Brass	96090	Without conduit backplate	Monetary Contacts 4A AC/2A DC @12Volts 2A AC/1A DC @ 48Volts	Brass	2 3/8" (dia) x 1.5" H
TA1786CB	10	Weatherproof Push-Buttons / Solid Cast Brass	96091	With conduit backplate	Monetary Contacts 4A AC/2A DC @12Volts 2A AC/1A DC @ 48Volts	Brass	2 3/8" (dia) x 1.5" H

TORKALERT™

Warning Lights

Industrial Units



APPLICATIONS

- 1/2" conduit mounting. Full selection of dome colors. For outdoor use. All units must be mounted vertically with base at bottom.

FEATURES

- **All Purpose 360° Beacon:** Large parabolic reflector rotates around a 100 watt bulb. Long range beam. Use to indicate equipment malfunctions, security intrusion, etc..
- **Midi-Strobe:** Solid state circuitry in a low profile design. No moving parts means less Maintenance!.
- **Compact Rotating Beacon:** Light intensifying reflector rotates around a low current 25 watt bulb. Bayonet socket for easy lamp replacement. Ideal for restricted or dangerous areas.
- **Electronic Strobe:** High intensity strobe tube with inner fluted lens for maximum brilliance. No moving parts makes it immune to shock and vibration. Ideal for security alert.
- **Color:** Red (R), Amber (A), Clear (C) and Blue (B).



CAT. NO.	FIG. NO.	CERTIFICATION	TYPE	UPC CODE	DESCRIPTION	INPUT VOLTAGE	AMPS
TA47RN5	1	—	All Purpose 360° Beacon	96061	90 FPM. Corrosion resistant/Outdoor use. Glass filled polypropylene housing Acrylic dome. Tamper resistant dome clamps. Nominal current draw 9 1/2"H x 8 1/2" diameter.	117VAC	.9
TA47AN5	1	—	All Purpose 360° Beacon	96161		117VAC	
TA93-2RN5	2	—	Midi-Strobe	99622	70-80 FPM. Solid state electronic circuitry. High output 3-4 watt, 3.6 joules Vertically mounted flash tube. Snap out socket base for 360° Fresnel dome optics. Nominal current draw 6 1/2"H x 5 1/8" diameter.	117VAC	.04
TA93-2AN5	2	—	Midi-Strobe	97623			
TA93-2CN5	2	—	Midi-Strobe	96968			
TA93-2BN5	2	—	Midi-Strobe	97624			
TA52RN5	3	UL	Compact Rotating Beacon	96063	80-90 FP. 360° rotation. Dependable belt & turntable design. Acrylic dom. Nominal current draw 6 1/2"H x 5 5/8" diameter.	117VAC	.21
TA52AN5	3	UL	Compact Rotating Beacon	96163			
TA52BN5	3	UL	Compact Rotating Beacon	96263			
TA94RN5	4	—	Electronic Strobe	97626	70-80 FPM. Solid state electronic circuitry High output 3-4 watt, 3.6 joules. Acrylic dome. Glass filled polypropylene housing. Suitable for outdoor use 9 1/2"H x 8 1/2" diameter.	117VAC	.04
TA94AN5	4	—	Electronic Strobe	97627			
TA94BN5	4	—	Electronic Strobe	97628			

TORKALERT™

Warning Lights

Vehicular Units

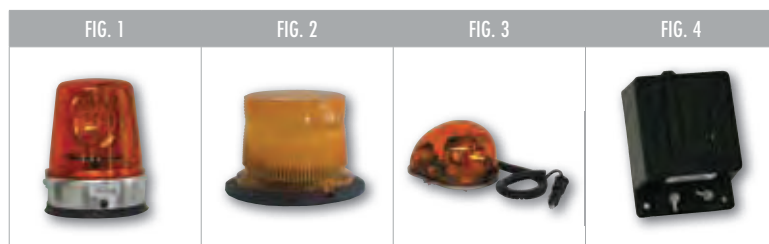


APPLICATIONS

- 1/2" conduit mounting. Full selection of dome colors. For outdoor use. All units must be mounted vertically with base at bottom.

FEATURES

- **Rotating Beacon:** Single point shock-mounting. Ideal for use on security or service vehicles.
- **Double Flash Super Strobe:** Ideal for industrial applications requiring extremely high visibility. One model covers all popular mounting methods: 1/2" pipe, surface, flange, electrical box.
- **Portable, Magnetic, Rotating Beacon:** Single point shock-mounting. Ideal for use on security or service vehicles.
- **Vehicular Backup Alarm:** Solid state electronic unit. Helps to comply with OSHA and State regulations. Makes distinctive noise, ideal for extreme variations in background noise
- **Note:** FPM (Flashes Per Minute). JFP (Joules Per Flash).
- **Color:** Red (R) and Amber (A).
- For replacement parts and accessories, see page 453.



CAT. NO.	FIG. NO.	CERTIFICATION	TYPE	UPC CODE	DESCRIPTION	INPUT VOLTAGE	AMPS
TA53AG1	1	—	Rotating Beacon	96184	90-100 FPM. Dependable belt & turntable design. 25 watt lamp. Acrylic Dom. Nominal current draw 7 1/2"H x 6" diameter	24VDC	—
TA131DRN5	2	UL	Double Flash Super Strobe	96510	60 FPM, 7.5 JPF. High intensity 85,000 peak CP. Flashtube Rated at 7000-8000 hrs. Durable Lexan® housing 5"H x 7 1/4" diameter.	120VAC	.02
TA131DAU1	2	UL	Double Flash Super Strobe	97611		10.5-31.0VDC	
TA54AE1	3	—	Portable, Magnetic, Rotating Beacon	96187	2 sound levels. 97 or 87 dB +/- dB at 4ft. Multi-voltage. Water-resistant housing	12 to 48VDC	—
TA879	4	—	Vehicular Backup Alarm	96102			

TORKALERT™
Power Supply Units
24 VDC Units



APPLICATIONS

- Units provide power to multiple signaling devices, depending on requirements.

FEATURES

TA606

- Regulated and filtered 24VDC up to 600mA. Easy-to-use screw terminals, accepts #16-24AWG. No conduit is required for installation.

TA640

- Dual output unit, each providing 2 Amps to current. If connected in parallel, will provide up to 4 Amps. Circuit breaker provides input protection.



CAT. NO.	FIG. NO.	UPC CODE	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	REGULATION	RIPPLE VOLTAGE
TA606	1	96109	117VAC	24VDC	600mA	—	—
TA640	2	96110	115VAC	24VDC	4A	+/-5%	10mVRMS

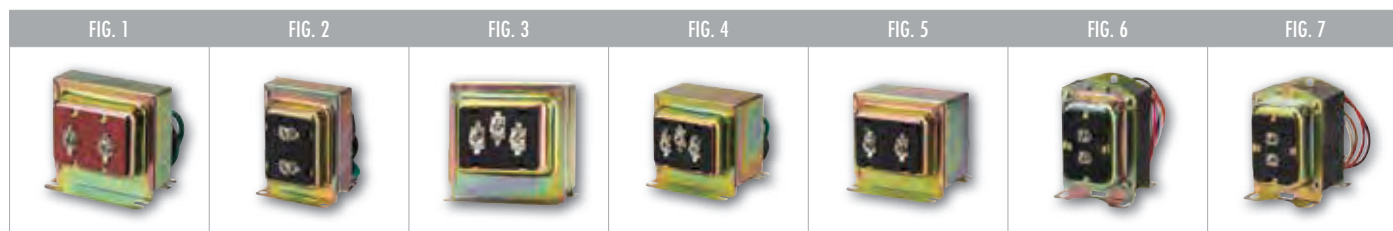
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TORKALERT™

Transformers, Accessories & Replacements

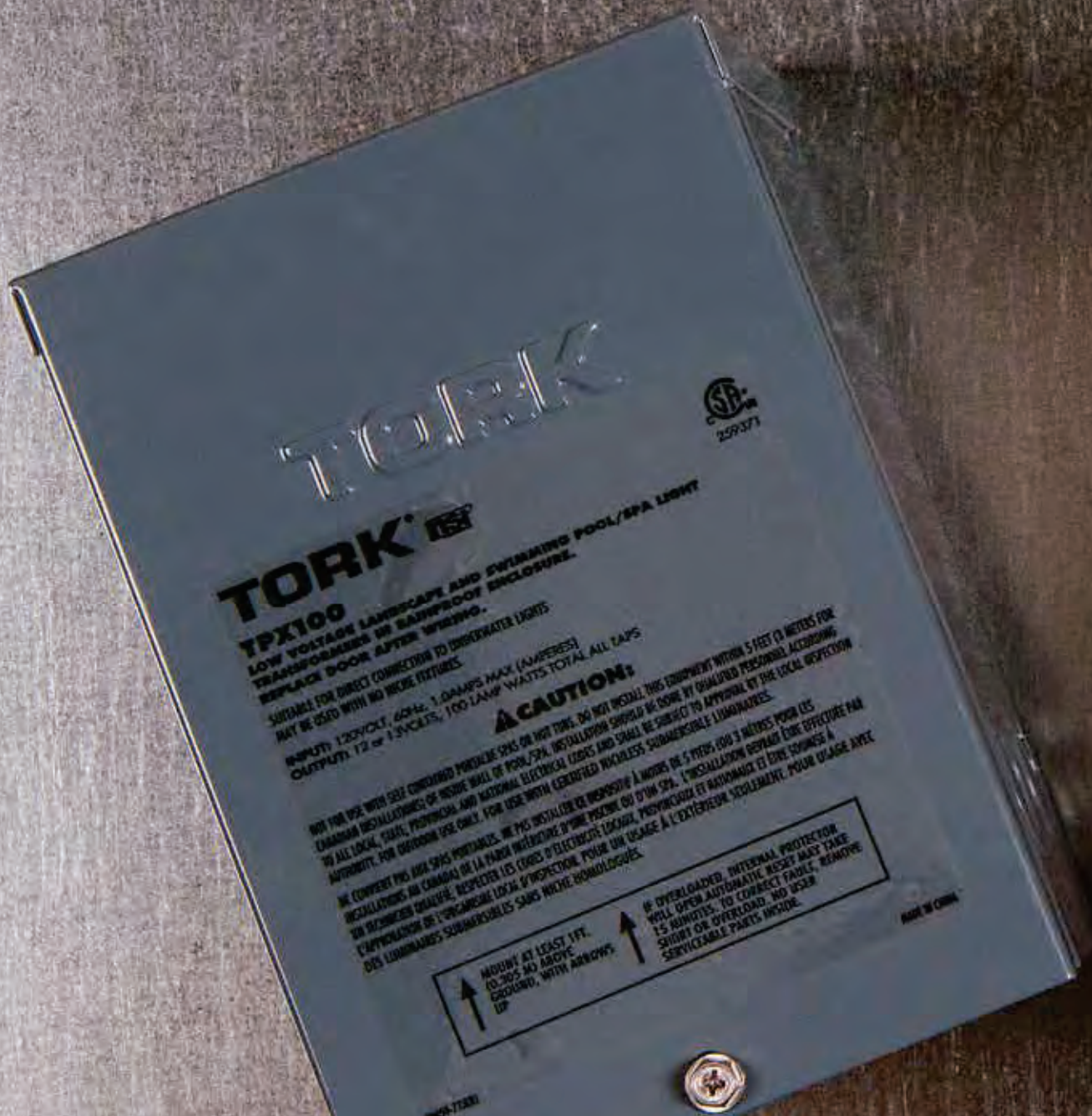
APPLICATIONS

- Engineered to ensure long use for bells, buzzers and chimes.

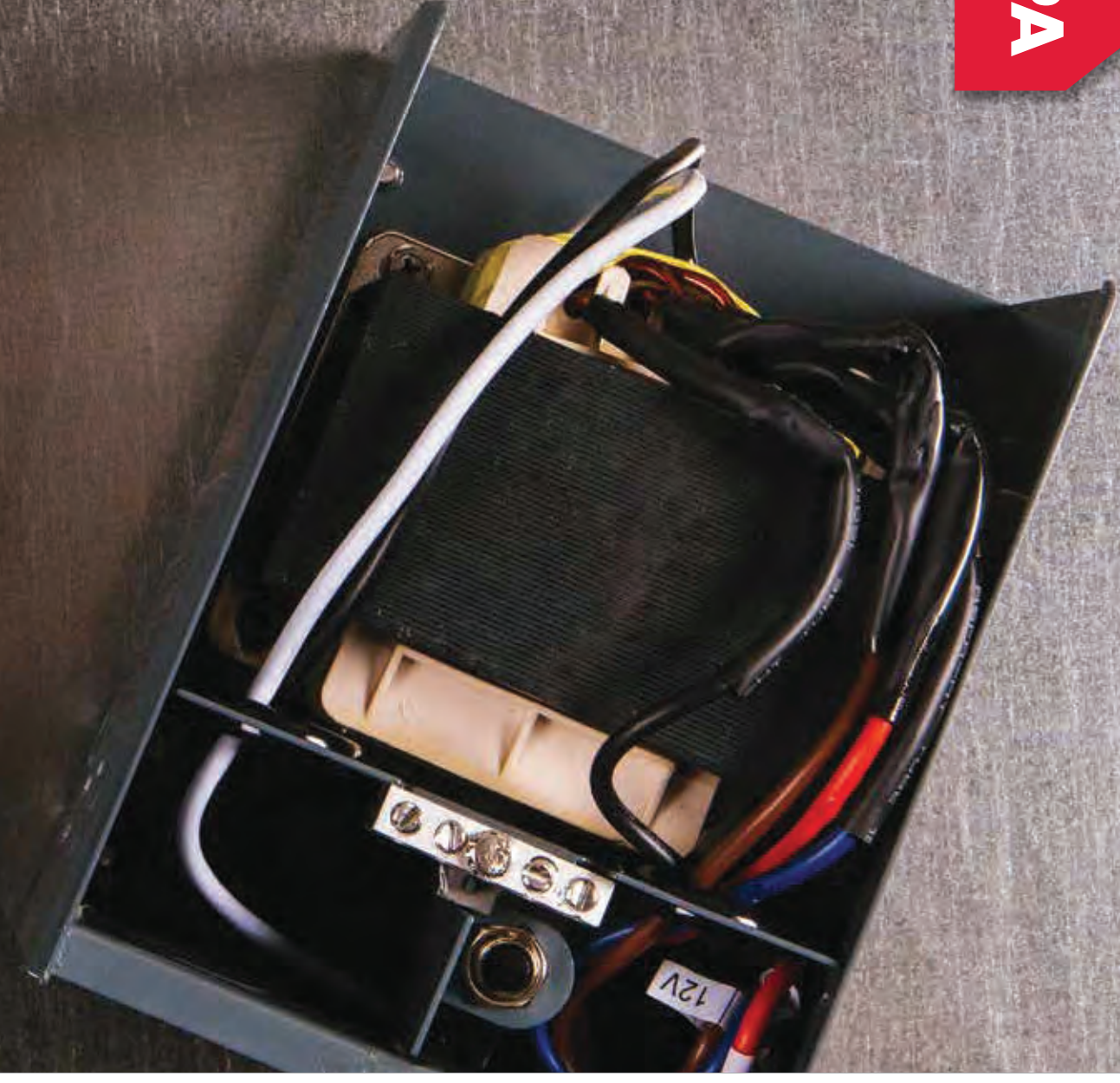


CAT. NO.	FIG. NO.	CERTIFICATION	UPC CODE	TYPE	VOLTS-AMPS (VA)	PRIMARY VOLTAGE AC	SECONDARY VOLTAGE AC	Hz
TA590	1		96104	Bell	5	120	10	60
TA591	2		96105	Chime	10	120	16	60
TA592	3		96106	Tri-Volt	10-10-20	120	8-16-24	50/60
TA598	4		96602	Tri-Volt	20-30-30	120	8-16-24	60
TA599	5		96108	Heavy Duty	40	120	24	60
TA1245Y-50	6		96166	Heavy Duty	50VA	120/208/240	24	60
TA1245Y-75	7		96167	Heavy Duty	75VA	120/208/240	24	60

REPLACEMENT ACCESSORIES				
UNIT	CAT. NO.	UPC CODE	DESCRIPTION	
TA93-2	TA-L6-2	96982	110VAC Xenon Flash Tube	
TA52	TA-L8	96134	110VAC Bulb	
TA94	TA-L10	96136	110VAC Xenon Flash Tube	
TA-94	TA-L10-1	96981	110VAC Xenon Flash Tube	
TA502	TA502SW	96966	Replacement switch	
TA874 Series	TA-BBSF	97694	Backbox – 4" painted Dawn Mist 3/4" and 1" KO's	
TA874 Series	TA-WBBF	97692	Weatherproof Backbox – 1/2" KO's 4" painted Dawn Mist	
TA-BBSF, TA-WBBF	TA-SFPF	97707	Semi-Flush plate – Dawn Mist	
TA-BBSF, TA-WBBF	TA-SFPFR	97697	Semi-Flush plate – Red	
TA47, TA94	TA-ADR	96111	Acrylic Dome – Red	
TA47, TA94	TA-ADA	96311	Acrylic Dome – Amber	
TA52, TA53	TA-D5B	96419	Acrylic Dome – Blue	
TA54	TA-D6A	96320	Dome – Amber	
TA93, TA94	TA-D7R	96121	Fresnal Dome – Red	
TA93, TA94	TA-D7A	96321	Fresnal Dome – Amber	
TA93, TA94	TA-D7C	96621	Fresnal Dome – Clear	
TA131D	TA-D8R	96970	Acrylic Dome – Red	



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TORK® POOL & SPA

POOL & SPA

Pool And Spa Panels

PP Panel Series



SPECIFICATIONS

- cULus Listed for Pool/Spa Control Panel 3NZM.

APPLICATIONS

- Pumps.
- Swimming pools.
- Fountains.
- Ponds.

FEATURES

- **Combination Panel:** The PP Panel Series provides a flexible platform to create a custom pool and spa control at an off the shelf price. Start with a blank panel and add timers, freeze controls, circuit breakers, switches and outlets for a custom installation.
- **PP-100R:** 100 amp load center 120-240V, 5/10 circuit breaker base.
- **PP-125R:** 125 amp load center 120-240V, 8/16 circuit breaker base.
- **Controls:** Freeze protection or mechanical and digital timers are all available with unique features not found elsewhere in the industry. Find specification details on pages 589-593.
- **Breakers:** Listed for Cutler Hammer (BR), GE (THQL), Murray/Siemens (MP) and Square D (HOM) (not included).
- **Reversible Door:** Easy-Hinge patented removable and reversible door. Change from left to right opening. Solves installation issues in the field.
- **While-In-Use Compartment:** Inside mounting for two devices with cord exit.
- **Device Mounting:** Provision for mounting one or two devices in any combination accepts toggle, GFCI, X-10 and UPB type devices in, PP-100R and PP-125R enclosures.
- **Transformer:** Select panels include 120V input: 100 watt with output 12V/13V or 300 watt with output 12V/13V/14V.
- **Enclosure:** Metal NEMA 3R with lockable hasp. See pages 589-593 for dimensions.
- *For stand alone transformer see TPX series page 463.

CAT. NO.	UPC CODE	CONTROL	CONTROL INPUT	ADDITIONAL INFORMATION
PP-100R	94016	—	—	Panel only. Add controls from page 589-593.
PP-125R	94017	—	—	Panel only. Add controls from page 589-593.
PP-125R-P4	53007	P1104-M	240VAC	Add another control from page 589-593.
PP-125R-P4-100X	94018	P1104-M	240VAC	*Includes 100 watt Low Voltage Transformer
PP-125R-P4-300X	94019	P1104-M	240VAC	*Includes 300 watt Low Voltage Transformer

POOL & SPA Electromechanical Control

Swimming Pool Timers, 24 Hours P1100 Series



APPLICATIONS

1. **Real Time Switch Face:** Easy to set and check time.
2. **Captive Trippers:** 15 minute intervals, no lost trippers.
3. **Heater Contacts:** FM suffix includes "Fireman Switch" to turn off pool heater 20-30 minutes before timer turns OFF. Contact rates SPST, 15A @120V.
4. **Thermostat:** PFP models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
5. **Accessory Contact:** PF models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
6. **Timer Interlock:** Makes one second timer dependant on operation of another timer.
7. **Quick Install/Release Lever:** For easy installation and removal when installing into pool panels.
8. **Load Indicator Lamp**
9. **Convenient External Rocker Switch:** 3 position switch: OFF/ON/AUTO. Use switch to turn OFF pump at the end of pool season.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	CONTACTS	RESISTIVE/INDUCTIVE RATINGS	HP RATING	NOTES
PFP3-M	94027	120/240 w/neutral	DPST	40A	3 HP @ 120V 7.5HP @ 240V	Thermostat only
P1101-M	10056	120	DPST	40A	3 HP @ 120V	—
P1101FM-M	10060	120	DPST	40A	3 HP @ 120V	Fireman Switch
PF1101-M	94020	120	DPST	40A	3 HP @ 120V	Accepts PFPT thermostat input
PF1101FM-M	94024	120	DPST	40A	3 HP @ 120V	Fireman Switch & Accepts PFPT thermostat input
PFP1103-M	94023	120/240 w/neutral	DPST	40A	3 HP @ 120V 7.5HP @ 240V	Freeze Protection included
P1104-M	10057	240	DPST	40A	7.5HP @ 240V	—
P1104FM-M	10061	240	DPST	40A	7.5HP @ 240V	Fireman Switch
PF1104-M	94021	240	DPST	40A	7.5HP @ 240V	Accepts PFPT thermostat input
PF1104FM-M	94025	240	DPST	40A	7.5HP @ 240V	Fireman Switch & Accepts PFPT thermostat input
PFPT	94028	120/240	—	—	—	Thermostat accessory

NOTE: = Indicates Freeze Protection.

POOL & SPA
Digital Control
Swimming Pool Timers, 7 Day
PEW1100 Series



APPLICATIONS

- 1. **Power Outage Backup:** Battery retains time and schedule.
- 2. **7 Day Programing One Minute Interval:** Allows for the control of various electrical equipment on a 7 day schedule. 15 schedule weekly programs.
- 3. **Thermostat:** PFPEW models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
- 4. **Accessory Contact:** PFEW models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
- 5. **Timer Interlock:** Makes one timer dependant on operation of another timer.
- 6. **Quick Install/Release Lever:** For easy installation and removal when installing into pool panels.
- 7. **Large LCD Display**
- 8. **Load Indicator Lamp**
- 9. **Large "Manual" Button:** 3 operating modes available: OFF/ON/AUTO. Using the OFF mode, the pool can be closed down without disrupting the time settings.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	CONTACTS	RESISTIVE/INDUCTIVE RATINGS	HP RATING	NOTES
PEW101-M	82432	120	DPST	40A	3 HP @ 120	—
PFEW101-M	94029	120	DPST	40A	3 HP @ 120	Accepts PFPT thermostat input
PFPEW1102-M	94031	240	DPST	40A	7.5HP @ 240V	Freeze protection included
PFPEW1103-M	94032	120/240 w/neutral	DPST	40A	3 HP @ 120V 7.5HP @ 240V	Freeze protection included
PEW104-M	82442	240	DPST	40A	7.5HP @ 240V	—
PFEW104-M	94030	240	DPST	40A	7.5HP @ 240V	Accepts PFPT thermostat input
NOTE: "" = Indicates Freeze Protection.						

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MECHANICAL

Same On/Off Times Each Day

Swimming Pool Time Switches

1100 Series



APPLICATIONS

- Pool pumps, heaters, lighting.

FEATURES

- **Scheduling:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.
- **Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Enclosed Motor:** Protects gears for extended life.
- **Standards:** Listed UL917. *UL Listed, cULus Listed on B suffix units.

SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 VAC 60Hz, varies by model.
 - **Timing Accuracy:** Line frequency.
 - **Terminal Range:** #8 - #14 AWG.
 - **Operating Temperature:** -40° to 165°F (-40° to +74°C).
 - **Power Consumption:** 3 watts maximum.
 - **Enclosure:** Lockable hasp. Type varies by model (See pages 464-468 for dimensions).
- Other Mountings:** Intermatic® Adaptor Plate model #IAP allows any 1100 series to fit into an Intermatic case.

WIRING DIAGRAMS

REFER TO PAGE XXX

CAT. NO.	CERTIFICATION	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
1101B	cULus	10064	120	SPST	Metal Indoor NEMA 1
1101BM-IAP	cULus	10073	120	SPST	Mechanism and mounting plate
1104B	cULus	10067	208-277	DPST	Metal Indoor NEMA 1
1104B-P	cULus	10070	208-277	DPST	Polycarbonate Indoor/Outdoor NEMA 3R
1104B-O	cULus	10075	208-277	DPST	Metal Indoor/Outdoor NEMA 3
1104BM-IAP	cULus	10074	240	DPST	Mechanism and mounting plate
1101FM-N	—	10043	120	SPST	Noryl® Indoor/Outdoor NEMA 3R with fireman switch
1104FM-N	—	10044	208-277	DPST	Noryl® Indoor/Outdoor NEMA 3R with fireman switch
Replacement Trippers	—	Order #P47 for a pair of ON/OFF trippers. Order #PF48 for a pair of ON/OFF trippers for 1100FM series			
Replacement Motor	—	#101 (120V) & #201 (208-277V)			

TYPE	VOLTAGE	CONTACT RATING
General Purpose	120-277VAC	40A
Resistive	120-277VAC	40A
Tungsten	120VAC	40A
Ballast	120-277VAC	20A
LED Driver*	120-277VAC	20A
Motor	120VAC 240VAC	2HP
		5HP
277VAC Single Phase		

*UL only or cULus on B suffix units.

POOL & SPA
Junction Boxes
JBP Series



APPLICATIONS

- For installation of underwater pool lights or low voltage connections.

FEATURES

- Durable PVC molded case.
- Interior & exterior bonding.
- Flexibility for conduit sizing.
- Built-in strain relief cord clamps.
- Line or low voltage wiring.
- Complete compliance with ul standard 1241.

CAT. NO.	UPC CODE	DESCRIPTIONS	CONDUIT HUBS
JBP75175	95457	Two Light Junction Box	3/4" / 1/2" / 1"
JBP57510	95485	Four Light Junction Box	1/2" / 3/4" / 3/4" / 1" / 1"

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POOL & SPA Timer Mechanisms



APPLICATIONS

- Replacement timer for pool mechanism.
- OEM panel mount timer.

FEATURES

- **Scheduling:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.
- **Easy-Set:** Real time clock face and day/night markings for setting trippers.
- **Bypass Switch:** Sets timer to permanent ON, OFF or timer operation.

SPECIFICATIONS

- **Input Voltage:** 120 or 240VAC, 60Hz (varies by model).
- **Timing Accuracy:** Line frequency
- **Terminal Range:** Male 1/4" spade connection
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to +70 °C)
- **Power Consumption:** 5mA max.
- **Size:** 60 x 60 x 35mm
- **Mounting:** 4 mounting holes 54mm square

CAT. NO.	UPC CODE	INPUT VOLTAGE (VAC) 60 Hz	OUTPUT CONTACTS
75151	94062	125	SPDT
75152	94063	240	SPDT

LOAD TYPE	RATINGS	
	75151 VOLTAGE (VAC)	75152 VOLTAGE (VAC)
General Purpose	125, 15A	240, 15A
Resistive	—	240, 15A
Motor	—	240, 3/4 HP

POOL & SPA

Digital Two-Speed Pump Timers

TPX Series



SPECIFICATIONS

- **Input Voltage:** 120 or 240VAC, 60Hz.
- **Output Voltage:**
 - TPX100(S): 12 & 13 VAC, 100 Watts max.
 - TPS300(S): 12, 13, & 14 VAC, 300 Watts max.
 - TPX600: 12, 13, & 14 VAC, 2 x 300 Watts max.
- **Color:** Grey or Stainless Steel.
- **Enclosure Size:**
 - TPX100(S) and TPX300(S) 7.2 H x 5.1 W x 4.2 D inches.
 - TPX600 10.4 H x 7.3 W x 4.2 D inches.

APPLICATIONS

- Swimming pool and spa lighting.
- Submersible fixtures.
- Landscape lighting.
- Fountain lighting.

FEATURES

- **Low Voltage:** Designed for the safe operation of 12 volt lighting loads including no niche fixtures.
- **Pool & Spa:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use.
- **Landscape Lighting:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use. All units for outdoor use only in Canada.
- **Safe Operation:** Full ground shield between primary and secondary.
- **Overload Protection:** Automatic resetting internal overload protection.



CAT. NO.	UPC CODE	INPUT SUPPLY 60Hz	OUTPUT CONTACTS
TPX100	94052	120VAC 1 AMP Max.	Painted Steel
TPX100S	94053	120VAC 1 AMP Max.	Stainless Steel
TPX300	94054	120VAC 3 AMP Max.	Painted Steel
TPX300S	94055	120VAC 3 AMP Max.	Stainless Steel
TPX600	94056	120VAC 2 x 3 AMP Max.	Painted Steel

ENCLOSURES

Standard For Models **Metal Indoor NEMA 1 Enclosure #68229**

1101B	7122
1102B	8001
1103B	8004
1104B	8061
1101FM	8121
1104FM	8301
7100	8602
7102	TU40-Y
7200	EW101B-Y
7202	EW103B-Y
1101-7	EW201-Y
WH2B	EW120B-Y
7120	

Standard For Models **METAL Indoor/Outdoor NEMA 3 Model 9000A – Suffix "O"**

7300, L, Z, ZL
7302, L, Z, ZL
8007U-O
8001-O
8001U-O
8007-O
DZS100BP-O
DZS200BP-O
DZM200BP-O
DZS200BP-O
DW200B-O

NEMA 1 enclosures standard for model 5401A

Standard For Models **Metal Indoor NEMA 1 Enclosure #63100-6**

7220	LDS-A
7200L	LDSH-A
7202L	DG100A-Y
7120L	DGM100A-Y
1847A	DGU100A-Y
8007	DGUM100A-Y
8007L	LC200
8007U	8001U
8008	
8008L	

Standard For Models **METAL Indoor/Outdoor Model 9000B – Suffix "O"**

1103B-O
1104B-O
DPC201

Standard For Models **Metal Indoor NEMA 1 Enclosure #70100**

W100
W200
W202
W120
W220
W222
W220L
W222L
1847 AW
W400B
W402B
W400BL

Standard For Models **Metal Indoor/Outdoor Model #9006**

TZ220L-O
TZ300L-O
T920L-O
T930L-O

ENCLOSURES

Standard For Models

NORYL® Indoor/Outdoor NEMA 3R Model #9000N

7200Z, ZL
7202Z, ZL
7120Z, ZL
7122Z, ZL
8001-N
8001U-N
SMC-3D
D Series
DZM Series
DZS Series
DTS Series
DW Series
DWZ Series

Standard For Models

Polycarbonate Indoor/Outdoor NEMA 3R #74431-1

TU40
1101B-P
1103B-P
1104B-P
EH20C
DTU40
E101PB
E Series
EW Series
EWZ Series

Standard For Models

NORYL® & LEXAN® Indoor/Outdoor NEMA 3R Model #9000NC

8001-NC
DGLC100A-NC
DGLC200A-NC

Standard For Models

Polycarbonate Indoor/Outdoor NEMA 3R With Clear Cover

1101B-PC
1103B-PC
1104B-PC
EW103B-C
EW120B-C

NEMA 1 enclosure standard for models DTWH40

Standard For Models

Metal Indoor

SA300
SA306

Standard For Models

Metal Indoor/Outdoor

SA400

ENCLOSURES

Standard For Models	ELC74 Enclosure
ELC74	Technical drawing of the ELC74 enclosure. The front view shows a square enclosure with a width of 7-1/4 and a height of 11-5/16. The side view shows a depth of 3-1/2. The bottom view shows three mounting holes. The TORK logo is visible on the front panel.

Standard For Models	DLC400BP
DLC400BP	Technical drawing of the DLC400BP enclosure. The front view shows a square enclosure with a width of 12-1/4 and a height of 14-1/4. The side view shows a depth of 3-3/8. The bottom view shows four mounting holes. The TORK logo is visible on the front panel.

Standard For Models	ELC78 & ELC712 Enclosure
ELC78 ELC712	Technical drawing of the ELC78 & ELC712 enclosure. The front view shows a square enclosure with a width of 14-1/2 and a height of 16-1/8. The side view shows a depth of 6. The bottom view shows three mounting holes. The TORK logo is visible on the front panel.

Standard For Models	5441A
5441A	Technical drawing of the 5441A enclosure. The front view shows a square enclosure with a width of 12-3/4 and a height of 20-3/4. The side view shows a depth of 4-5/8. The bottom view shows three mounting holes. The TORK logo is visible on the front panel.

Standard For Models	Metal Indoor NEMA 1 Enclosure Model #63016-1
TZ220L TZ300L W300 W300L W302L TW220L TW300L T920L T930L TW222L TW302L	Technical drawing of the Metal Indoor NEMA 1 Enclosure Model #63016-1. The front view shows a square enclosure with a width of 8-1/8 and a height of 12-1/8. The side view shows a depth of 4-3/4. The bottom view shows three mounting holes. The TORK logo is visible on the front panel.

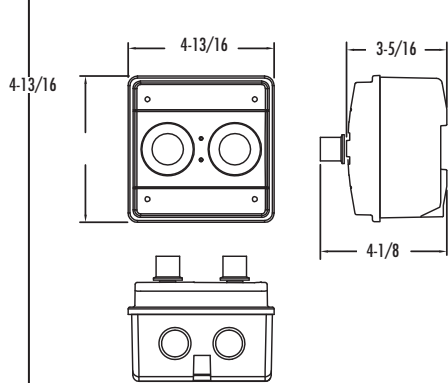
Standard For Models	Metal Duplex Indoor/Outdoor Model #9004L
1101D 1104D 1104DF	Technical drawing of the Metal Duplex Indoor/Outdoor Model #9004L. The front view shows a square enclosure with a width of 10-3/8 and a height of 8-1/8. The side view shows a depth of 4-1/4. The bottom view shows four mounting holes. The TORK logo is visible on the front panel.

ENCLOSURES

Standard For Models

EWJT & E500T Series Enclosure

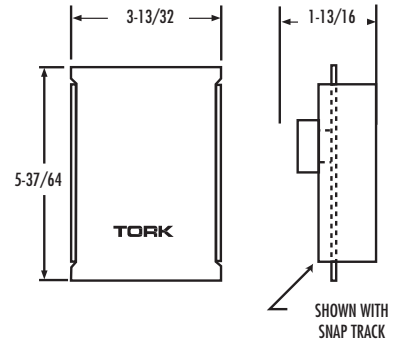
EJW
E500T
E501T
E502T
ACT30MA



Standard For Models

LDS Series Mounting with Bracket

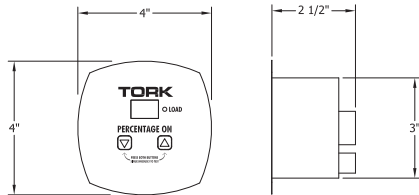
LDS



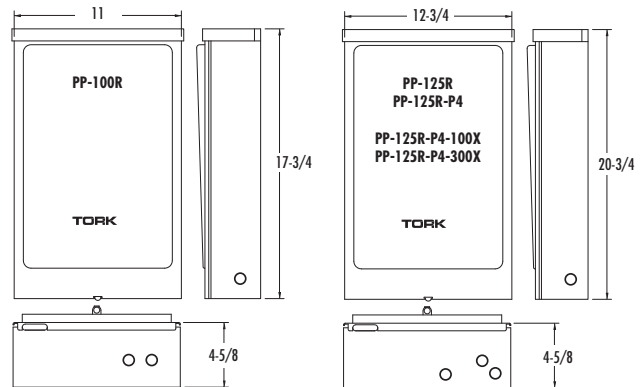
Standard For Models

PCT15M

PCT15M



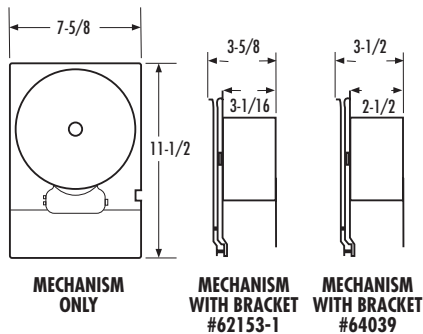
Pool Panel Series



Option For Models

Mechanism & Mounting Bracket

Use bracket
#64039
W100
W120
W200
W220
W202
W222
Use bracket
#62153-1
W300
W302



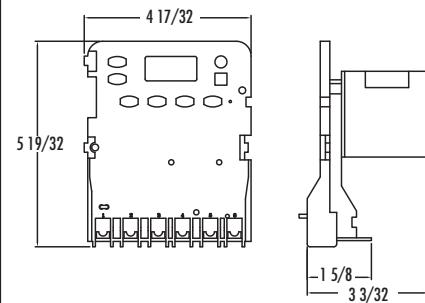
Standard For Models

W/EW/EWZ Series

Bracket #65447

EWZ101-MB
EWZ103-MB
EWZ120-MB
EWZ201-MB

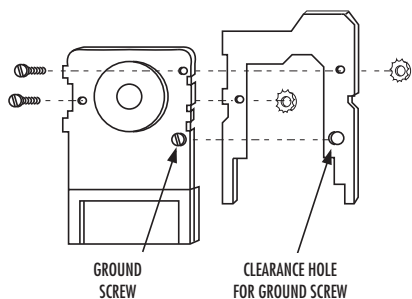
MECHANISM BRACKET



ENCLOSURES

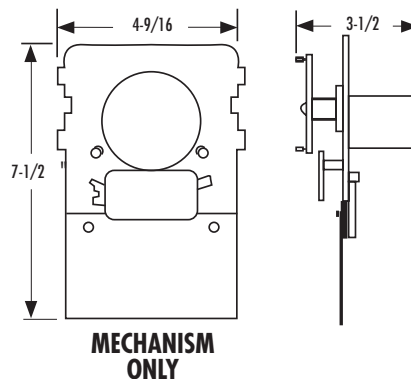
Standard For Models IAP Bracket Intermatic® Adapter Plate

1101BM-IAP
1104BM-IAP
Option For Models
1102B
1103B
7100
7102
7200
7202
7120
7122
E Series
EW Series
EWZ Series



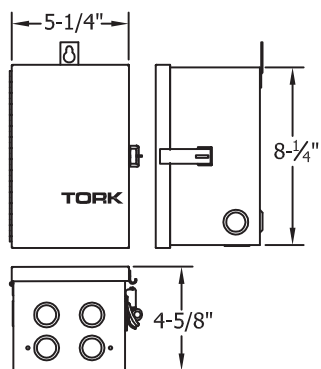
Standard For Models Mechanism & Mounting Bracket #65447

8001-LC/WB
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1102-M
1103-M
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