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File: PSS-252LR-W5X

15/25kV	200A Deadbreak Elbow Connector	w/ Test Point	252LR-W5X
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Features:

- 15/25kV, 200 Amp Deadbreak Elbow
- Fully shielded, fully submersible molded rubber housing
- 100% peroxide-cured construction includes insulation and conductive EPDM materials
- Provision for hot stick operation
- Provision for ground wire connection
- Wide cable range with minimum number sizes
- Long bi-metal compression lug is standard
- Non-corrosive, capacitive test point

252LR-W5X Deadbreak Elbow Connector

Applications:

The Elastimold® 252LR Elbow Connector is a fully-rated 15/25kV, 200Amp Class dead-break connector. Units include provisions for de-energized operation using standard hotstick tools. It has a standard interface for connecting to 15/25kV, 200Amp dead-break bushing inserts, junctions and other accessories. The 252LR is equipped with an integral voltage test point.

Ratings:

Meets ANSI/IEEE Standard 386, Latest Revision

For 15kV Voltage Class:

8.3kV Max Phase-to-Ground – Operating Voltage
14.4kV Max Phase-to-Phase
95kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
34kV AC – One minute withstand
53kV DC – 15 minutes withstand
11kV AC – Corona Extinction @ 3pC sensitivity
200 Amp – Continuous
10kA Sym – 10 Cycles Momentary & Fault Close

For 25kV Voltage Class:

15.2kV Max Phase-to-Ground – Operating Voltage
26.3kV Max Phase-to-Phase
125kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
40kV AC – One minute withstand
78kV DC – 15 minutes withstand
19kV AC – Corona Extinction @ 3pC sensitivity
200 Amp – Continuous
10kA Sym – 10 Cycles Momentary & Fault Close

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CATALOG NUMBER SELECTION

Step 1 (W)

Determine the insulation diameter of the cable. Select the insulation letter code that best straddles the insulation diameter from W table below. Insert code into catalog number.

Step 2

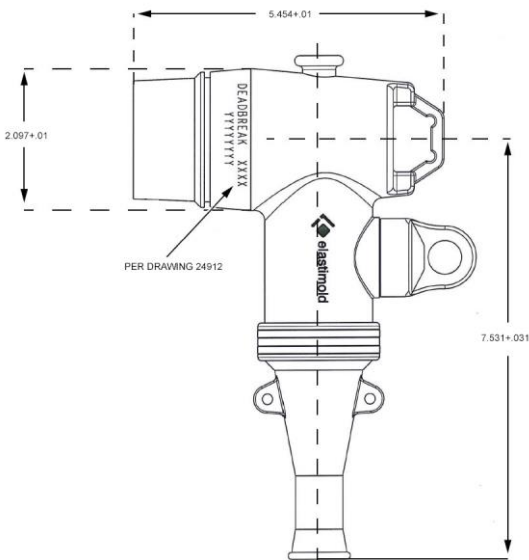
Insert conductor material code from the Material Code table.

Step 3 (X)

Choose the proper compression lug code according to the conductor size from the Conductor Code Table. Insert code into catalog number.

Example:

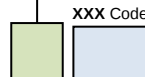
The ordering number for an Elbow Connector for a 1/0 compressed, 220 mil wall cable with a minimum insulation diameter of .575" and a maximum of .740" is 252LR-A5240.



252LR



Material Code	
Copper*	2
Bi-metal**	5



Cable Insulation Diameter in Inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.575	0.740	14.61	18.80	A***
0.635	0.905	16.13	22.99	B
0.805	1.060	20.45	26.92	C
0.890	1.220	22.61	30.99	D
1.09	1.31	27.48	33.27	E

X Code	Conductor Size AWG or kcmil			Connector Only	
	Strand./ Compr.	Solid/ Compact	mm ²	Bi-metal**	Copper*
190		#4	16.76	02500190	02702190
200	#4	#3	21.14	02500200	02702200
210	#3	#2	26.67	02500210	02702210
220	#2	#1	33.62	02500220	02702220
230	#1	1/0	42.41	02500230	02702230
240	1/0	2/0	53.49	02500240	02702240
250	2/0	3/0	67.43	02500250	02702250
260	3/0	4/0	85.01	02500260	02702260
270	4/0	250	107.2	02500270	02702270

Each kit contains the following:

1	Elbow connector housing	252BLR-W
1	Bi-metal compression lug	02500XXX
1	Probe	252LRF
1	Probe wrench	650-14-3TN
1	Bail Assembly	150BA
1	Tube, lubricant	82-08
1	Installation instruction	IS-1563
1	Crimp chart	CC-0020
1	V.D Cap-Peroxide	156-7

Notes:

* Copper compression lug suitable for all copper conductors only.

** Bi-metal compression lug with universal aluminum barrel suitable for copper or aluminum conductors.

*** For cables that have an OD less than 0.565 in. Order cable adapter 160CA-XX

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The Elastimold® **160CA** Elbow Cable Size Adapter is specially designed for small cable with insulation OD between .495" to .685". The 160CA can be only used in a 165/166LR elbow size housing. To have the correct Elbow size use the insulated OD=0.85 in. On chart for the elbow the "W" code will be "B"

Notes:

* For cables that have an OD less than 0.565 in. Order cable adapter **160CA-XX** per table W6

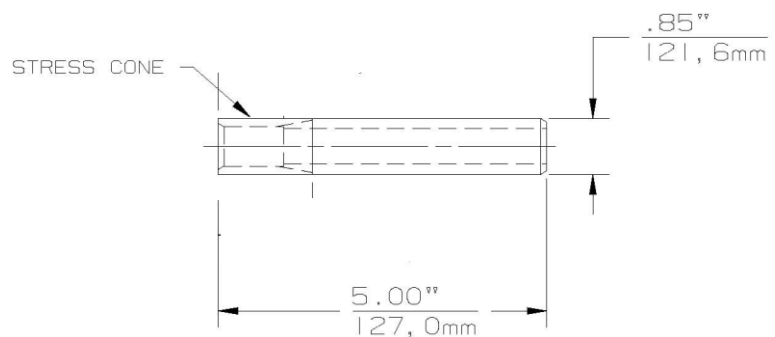
Ordering Instructions:

Step 1 (W)

Determine the insulation diameter of the cable. Select the insulation letter code that best straddles the insulation diameter. Insert code into catalog number.

160CA -

Table W6				
Cable Insulation Diameter in Inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
.495	.585	12.57	14.86	EB
.525	.635	13.34	16.13	EF
.575	.685	14.61	17.40	FA



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IMPORTANT:

For safety purposes, a sealing & grounding kit with the deadbreak elbow is **HIGHLY RECOMMENDED**. Please choose from the sealing and grounding kit below:

Jacket Concentric Neutral Cable

Copper Tape Shield Cable

200ECS

200ECSG3

For Jacketed Concentric Neutral Cables, the sealing kit part number will be: **200ECS** or add suffix “-S” to part number for cables with nominal O.D. within the range of .80”-1.50”

Example:

The ordering number for an Elbow Connector for a 1/0 compressed/stranded, jacketed concentric neutral, 220 mil wall cable with an insulation diameter of .805” to 1.06”, overall cable diameter is 1.03” and capacitive test point is **252LR-C5240-S**.

For installation instruction for the 200ECS, please see IS-459

For Copper Tape Shield Cables, the sealing & grounding kit part number will be: **200ECS** or add suffix “-S” to part number for cables with nominal O.D. within the range of .80”-1.50”

Example:

The ordering number for an Elbow Connector for a 1/0 compressed/stranded, copper tape shield, 220 mil wall cable with an insulation diameter of .805” to 1.06”, overall cable diameter is 1.05” and capacitive test point is **252LR-C5240-SG3**.

For installation instruction for the 200ECSG3, please see IS-460

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Unishield Cable

10TL-W



For Unishield Cables, the shield adapter part number will be: **10TL-W**, where the "W" letter code will be determined by the insulation diameter of the Unishield cable. Please see W Table below for W code. Or add suffix "-TL" to the part number.

10TL - W Code

Cable Insulation Diameter in Inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.495	0.585	12.6	14.9	EB
0.525	0.635	13.3	16.1	EF
0.575	0.685	14.6	17.4	FA
0.625	0.735	15.9	18.7	FAB
0.675	0.785	17.1	19.9	FB
0.725	0.835	18.4	21.2	FG
0.775	0.885	19.7	22.5	GA
0.825	0.935	21.0	23.7	GAB
0.875	0.985	22.2	25.0	GB
0.930	1.040	23.6	26.4	GH
0.980	1.115	24.9	28.3	HA
1.040	1.175	26.4	29.8	HAB
1.095	1.240	27.8	31.5	HB
1.160	1.305	29.5	33.1	HJ
1.220	1.375	31.0	34.9	JA
1.285	1.395	32.6	35.4	JAB
1.355	1.520	34.4	38.6	JB
1.485	1.595	37.7	40.5	KA
1.530	1.640	38.9	41.7	KAB
1.575	1.685	40.0	42.8	KB
1.765	1.875	44.8	47.6	PB

Example:

The ordering number for an Elbow Connector for a 1/0 compressed/stranded Uni-shield, 220 mil wall cable with an insulation diameter of .825" to .935", overall cable diameter is 1.03" and capacitive test point is **252LR-C5240-TL**.

Copper Tape Shield Cable



Concentric Neutral Cable



Example:

Partial installation example of **252LR-C5240-SG3** for copper tape shield cables. For full instruction please see IS-460.

Example:

Partial installation example of **252LR-C5240-S** for concentric neutral cables. For full instruction please see IS-459.