

CABLE SPECIFICATION:

CONDUCTOR:
MATERIAL: BARE COPPER
SECTION: 22AWG/0.14mm²
INSULATION 2.23 ±0.12mm:
COLOR: BLUE, WHITE
INSULATION 1.27 ±0.05mm:
COLOR: RED, BLACK
JACKET:
COLOR: GRAY
COMPOUND: PVC
DIAMETER: 7.239 ±0.12mm
TEMPERATURE RANGE:
-20°C TO +80°C
MAX. OPERATING VOLTAGE: 300V

WIRING DIAGRAM



PART No. MATRIX

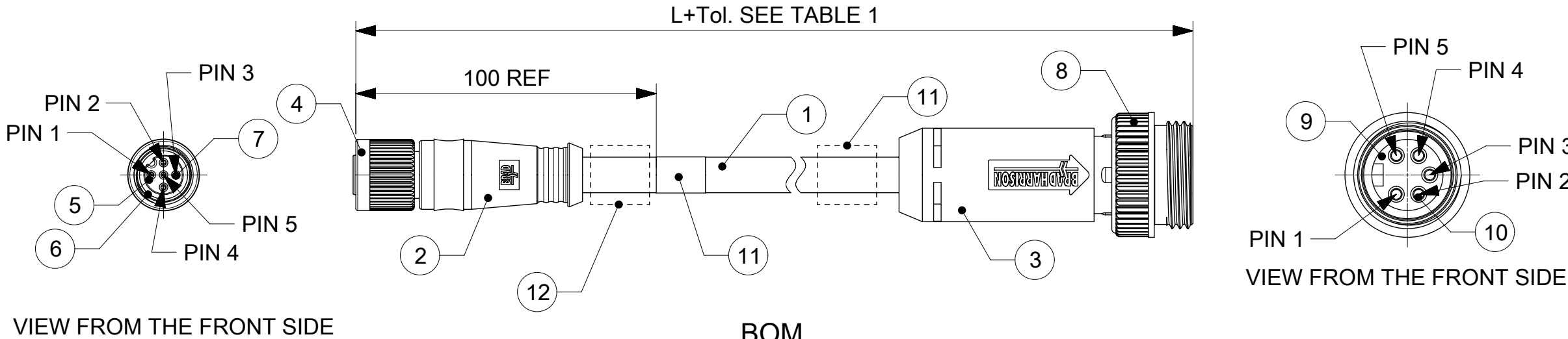
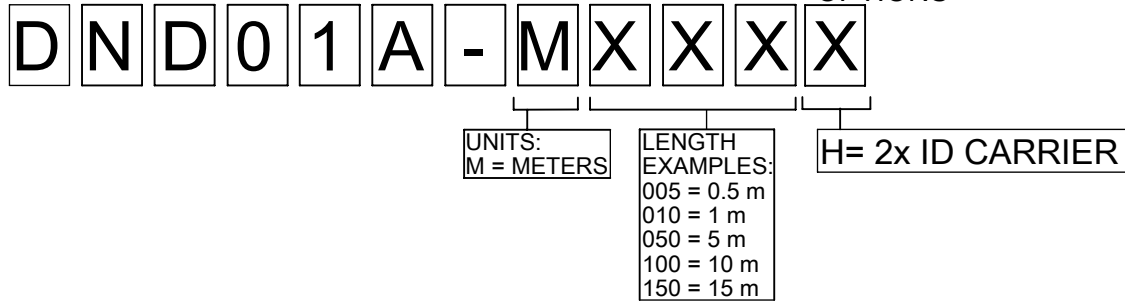


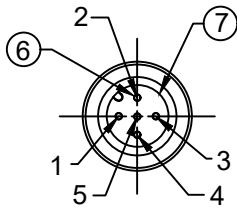
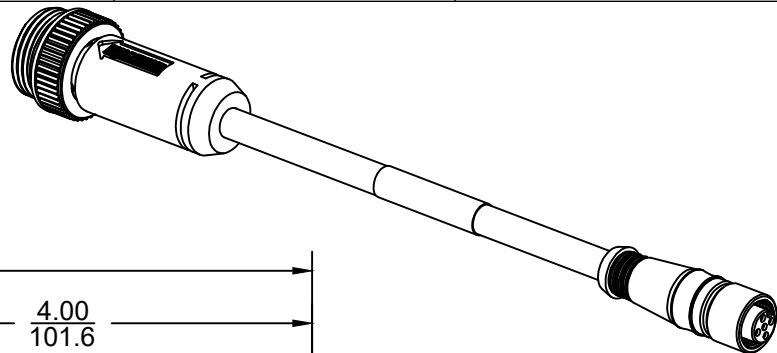
TABLE 1

MOLEX PN	ENGINEERING No	L+Tol. [mm]
1300390155	DND21A-M005	500 +19/-0
1300390157	DND21A-M010	1000 +56/-0
1300390159	DND21A-M020	2000 +89/-0
1300390166	DND21A-M050	5000 +165/-0
1300390169	DND21A-M100	10000 +317/-0
1300390518	DND21A-M150	15000 +610/-0
1300390170	DND21A-M200	20000 +610/-0
1300390688	DND21A-M005H	500 +19/-0
1300390689	DND21A-M010H	1000 +56/-0
1300390690	DND21A-M020H	2000 +89/-0
1300390691	DND21A-M050H	5000 +165/-0
1300390692	DND21A-M100H	10000 +317/-0
1300390693	DND21A-M200H	20000 +610/-0
1300390694	DND21A-M150H	15000 +610/-0
1300390695	DND21A-M030H	3000 +89/-0

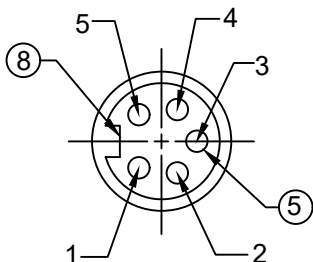
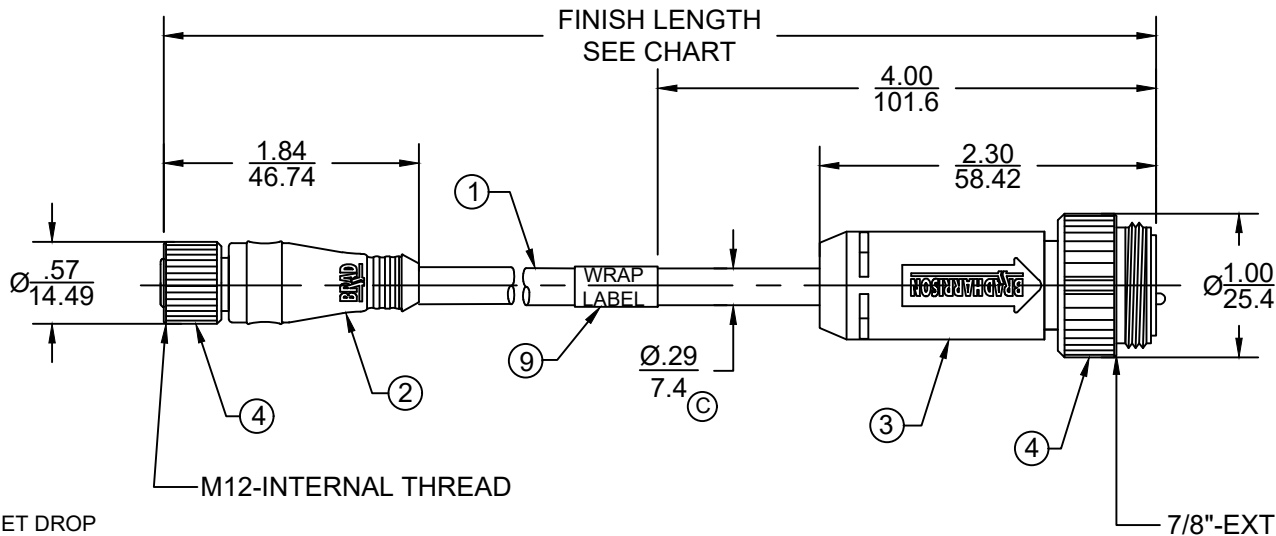
BOM

14	-	TAPE HIGH TEMP	-	-
13	-	HEAT-SHRINK	-	CLEAR
12	0/2	ID CARRIER (SEE MATRIX)	PVC	TRASPARENT
11	1	LABEL	VINYL	YELLOW
10	5	CONTACT MA	BRASS	Ni-PLATED
9	1	INSERT A-SIZE MA 5P	ARNITEL	BLACK
8	1	COUPLING NUT MA A-SIZE	ZINK ALLOY	-
7	5	CONTACT FE	-	-
6	1	GASKET	FPM	RED
5	1	INSERT M12 FE 5P MICRO	ZYTEL	BLACK
4	1	COUPLING NUT FE M12	ELECTROPHORETIC	BLACK
3	-	MOULDING MATERIAL	ARNITEL	BLACK
2	-	MOULDING MATERIAL	ARNITEL	BLACK
1	-	DROP CABLE 4/22AWG	PVC	GREY
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

SAP P/N #	ENGINEERING P/N	FINISHED LENGTH
1300390652	DND21A-M002	0.2M [8 IN]
1300390518	DND21A-M150	15M [49FT 3 IN]
1300390656	DND21A-M300	30M [98FT 5 IN]



FEMALE FACE VIEW

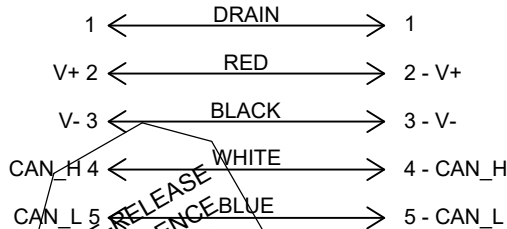


MALE FACE VIEW

NOTES:

1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. CABLE: #22 / 4 DRAIN, DEVICENET DROP
EACH PAIR: SHIELDED, TWISTED
OVERALL: SHIELDED, PVC
4. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
5. TEMP RATING: -20°C TO +80°C
6. PROTECTION: IP67 (WHEN MATED)
7. UL LISTED FILE: E152210
CSA CERTIFIED FILE: LR6837
8. WRAP LABEL IS MARKED WITH P/N, DATE CODE, VOLTAGE & AMPERAGE
9. ASSEMBLY IS ROHS COMPLIANT
10. ALL DIMENSIONS ARE FOR REFERENCE UNLESS TOLERANCED OR NOTED OTHERWISE

SCHEMATIC



PART NO. MATRIX

DND21A-M150

LENGTH:
M005= 0.5 METER
M010= 1 METER
M100= 10 METER

CABLE LENGTH TOLERANCES	
>.3M [1FT]:	+19mm-0 [+.75in-0]
.3 - .9M [1 - 3FT]:	+44.5mm-0 [+1.75in-0]
.9 - 1.8M [3 - 6FT]:	+55.6mm-0 [+2.19in-0]
1.8 - 3.7M [6 - 12FT]:	+88.9mm-0 [+3.50in-0]
3.7 - 7.3M [12 - 24FT]:	+165.1mm-0 [+6.50in-0]
7.3-14.6M [24 - 48FT]:	+317.5mm-0 [+12.50in-0]
14.6 - 30.5M [48-100FT]:	+622.3mm-0 [+24.50in-0]
OVER 30M [100FT]	+2% OF FINISHED LENGTH

9	1	LABEL	PLASTIC FILM	BLACK/YELLOW
8	1	INSERT(MINI)	TPE	GRAY
7	1	INSERT(MICRO)	NYLON	BLACK
6	5	PIN CONTACT	COPPER ALLOY	GOLD PLATED
5	5	SOCKET CONTACT	COPPER ALLOY	GOLD PLATED
4	2	COUPLING NUT	ZINC DIE-CAST	BLACK
3	1	OVERMOLD(MINI)	TPE	GRAY
2	1	OVERMOLD(MICRO)	TPC	GRAY
1	1	DEVICENET DROP CABLE	PVC JACKET	GRAY
ITEM	QTY.	COMPONENT	MATERIAL	FINISH

DOCUMENT STATUS	RV	RELEASE DATE	2020/08/28	17:02:28
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FUNCTIONAL SYMBOLS

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DIVISIONAL SYMBOLS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE	
INCH/MM	NTS	
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	±----	±----
3 PLACES	±----	±0.005
2 PLACES	±0.13	±0.01
1 PLACE	±0.25	±0.02
0 PLACES	±----	±----
ANGULAR TOL ± 0.5 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

CURRENT REV DESC: ITEM# 2, 3 & 8 WERE PVC. ADDED CABLE DIA, UL, CSA & TOL CHART. MODIFIED MATERIAL TABLE.

EC NO: 643513

DRWN: ABENJAMINLW 2020/08/05

CHK'D: RSTONE 2020/08/28

APPR: ----

INITIAL REVISION:

DRWN: TWOLDEGE 2010/01/11

APPR: JFMURPHY 2010/01/20

THIRD ANGLE PROJECTION

DRAWING A-SIZE

SERIES 130039

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

molex

MINI-MICRO CHANGE DEVICENET, A-SIZE-M12, 5 POLE, MALE-FEMALE, STRAIGHT, SINGLE KEY, 4/22 AWG

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-130039-020	PSD	001	C

SEE CHART

GENERAL MARKET

1 OF 1