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: 60V

WIRING DIAGRAM



PART No. MATRIX

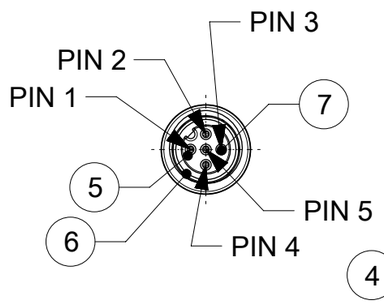
D	N	D	0	1	A	-	M	X	X	X	X

OPTIONS

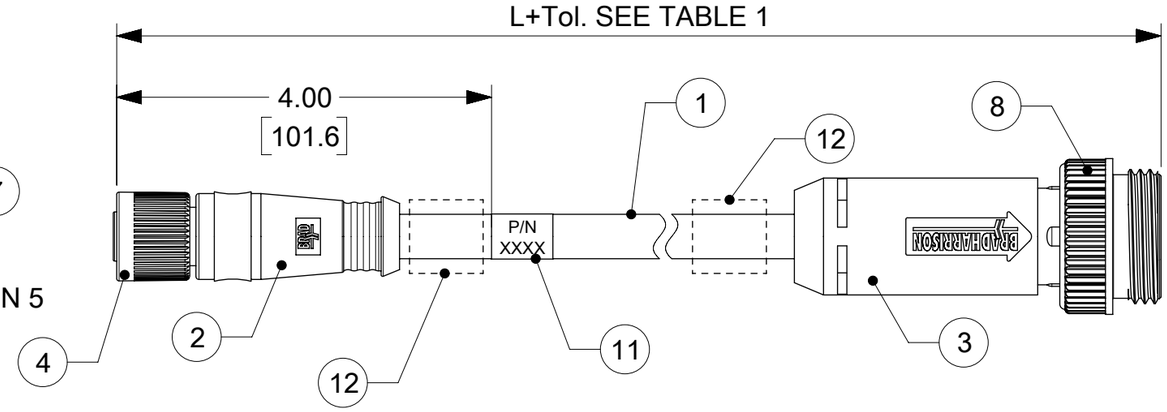
UNITS:
M = METERS

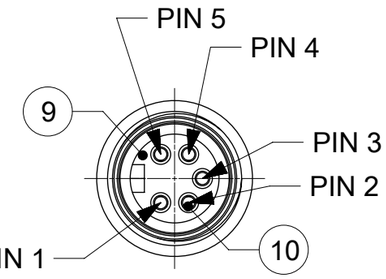
LENGTH
EXAMPLES:
005 = 0.5 m
010 = 1 m
050 = 5 m
100 = 10 m
150 = 15 m

H= 2x ID CARRIER



VIEW FROM THE FRONT SIDE





VIEW FROM THE FRONT SIDE

TABLE 1

MOLEX PN	ENGINEERING No	L+Tol. [INCH]	L+Tol. [mm]
1300390155	DND21A-M005	19.7 IN +0.7 IN/-0	500 +19/-0
1300390157	DND21A-M010	39.4 IN +2.2 IN/-0	1000 +56/-0
1300390159	DND21A-M020	78.7 IN +3.5 IN/-0	2000 +89/-0
1300390166	DND21A-M050	196.9 IN +6.5 IN/-0	5000 +165/-0
1300390688	DND21A-M005H	19.7 IN +0.7 IN/-0	500 +19/-0
1300390689	DND21A-M010H	39.4 IN +2.2 IN/-0	1000 +56/-0
1300390690	DND21A-M020H	78.7 IN +3.5 IN/-0	2000 +89/-0
1300390691	DND21A-M050H	196.9 IN +6.5 IN/-0	5000 +165/-0
1300390692	DND21A-M100H	393.7 IN +12.5 IN/-0	10000 +317/-0
1300390693	DND21A-M200H	787.4 IN +24.0 IN/-0	20000 +610/-0
1300390694	DND21A-M150H	590.6 IN +24.0 IN/-0	15000 +610/-0
1300390695	DND21A-M030H	118.1 IN +3.5 IN/-0	3000 +89/-0

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/30 11:18:33

BOM

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
14	-	TAPE HIGH TEMP	-	-
13	-	HEAT-SHRINK	-	CLEAR
12	0/2	ID CARRIER (SEE MATRIX)	PVC	TRASPARENT
11	1	WRAP LABEL	VINYL	YELLOW
10	5	CONTACT MA	COPPER ALLOY	GOLD PLATED
9	1	INSERT A-SIZE MA 5P	ARNITEL	BLACK
8	1	COUPLING NUT MA A-SIZE	ZINC DIE-CAST	BLACK E-COAT
7	5	CONTACT FE	COPPER ALLOY	GOLD PLATED
6	1	GASKET	NITRILE	RED
5	1	INSERT M12 FE 5P MICRO	ZYTEL	BLACK
4	1	COUPLING NUT FE M12	ZINC DIE-CAST	BLACK E-COAT
3	-	MOULDING MATERIAL	TPC	GRAY
2	-	MOULDING MATERIAL	TPC	GRAY
1	-	DROP CABLE 4/22AWG	PVC	GRAY

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

DIMENSION UNITS: INCH/MM
SCALE: 1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#517292

EC NO: 838027
DRWN: RAGHAH3 2025/09/18
CHK'D: GGA 2025/10/30
APPR: GGA 2025/10/30

INITIAL REVISION:
DRWN: AKONDRACIUK 2016/06/20
APPR: MIWASIECZKO 2016/09/09

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 130039

molex

MC/MIC 5P M/MFE XM ST/ST

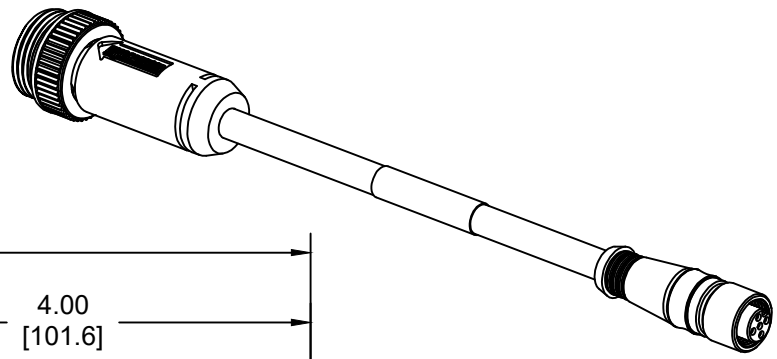
PRODUCT CUSTOMER DRAWING

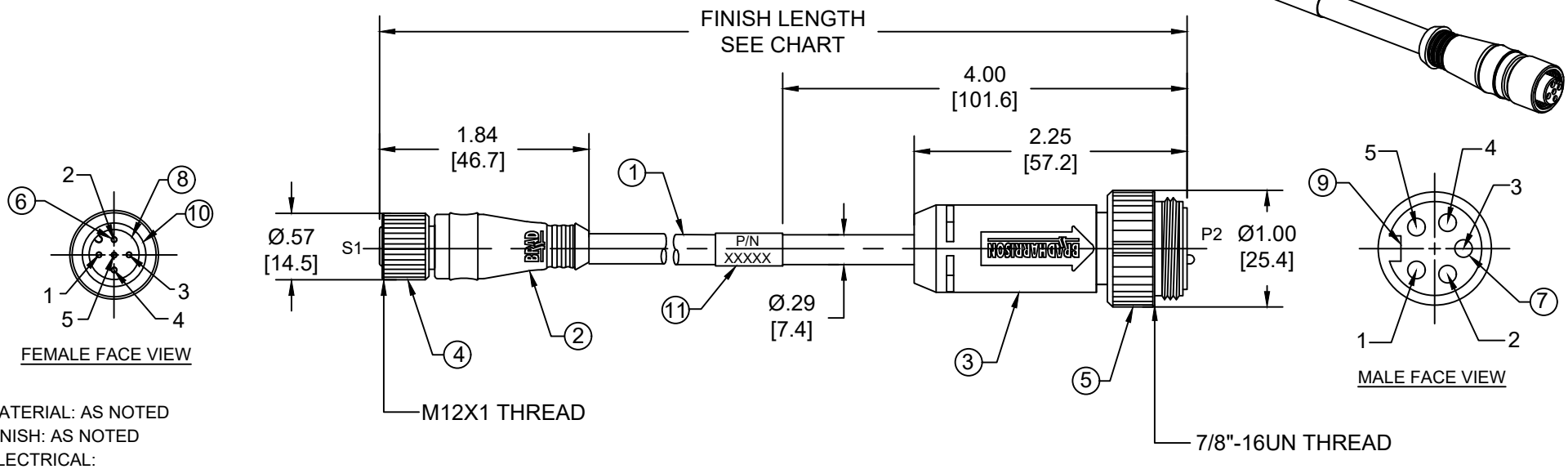
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1300390155	PSD	00P	B1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1		1 OF 1

FORMAT: master-lb-prod-A3
REVISION: J1
DATE: 2021/05/01

SAP P/N #	ENGINEERING P/N	FINISHED LENGTH
1300390155	DND21A-M005	0.5M [1FT 8 IN]



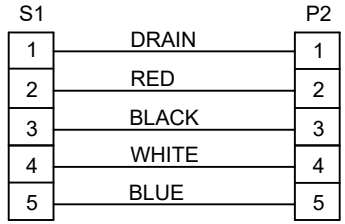


NOTES:
1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:
   VOLTAGE: 60V
   CURRENT: 4A
4. TEMP RATING: -20°C TO +80°C
5. PROTECTION: IP67 (WHEN MATED)
6. UL LISTED FILE: E152210
   CSA CERTIFIED FILE: LR6837
7. ALL DIMENSIONS ARE FOR REFERENCE UNLESS TOLERANCED OR NOTED OTHERWISE

PART NUMBER LEGEND

DND21A-M150

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



WIRING DIAGRAM

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

ITEM	COMPONENT	MATERIAL	FINISH
11	WRAP LABEL	VINYL	YELLOW
10	O-RING	NITRILE	RED
9	INSERT(MINI)	TPE	BLACK
8	INSERT(MICRO)	NYLON	BLACK
7	PIN CONTACT	COPPER ALLOY	GOLD PLATED
6	SOCKET CONTACT	COPPER ALLOY	GOLD PLATED
5	COUPLING NUT(MINI)	ZINC DIE-CAST	BLACK E-COAT
4	COUPLING NUT(MICRO)	ZINC DIE-CAST	BLACK E-COAT
3	OVERMOLD(MINI)	TPC	GRAY
2	OVERMOLD(MICRO)	TPC	GRAY
1	DEVICENET DROP CABLE	PVC JACKET	GRAY

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/30 11:18:20

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

DIMENSION UNITS: INCH/MM | SCALE: NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±----	±----
3 PLACES	±----	±----
2 PLACES	±----	±----
1 PLACE	±----	±----
0 PLACES	±----	±----
ANGULAR TOL ±	---- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#517292

EC NO: 838027
DRWN: RAGHAH3 2025/09/17
CHK'D: GGA 2025/10/30
APPR: GGA 2025/10/30

INITIAL REVISION:
DRWN: TWOLDEGE 2010/01/11
APPR: JFMURPHY 2010/01/20

THIRD ANGLE PROJECTION | DRAWING: A-SIZE | SERIES: 130039

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	E2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 1