NOTES:

ELECTRICAL DATA:
IEC RATINGS FOR VOLTAGE & CURRENT
VOLTAGE RATING: 250V AC/DC
AMPERAGE RATING: 4A

A4

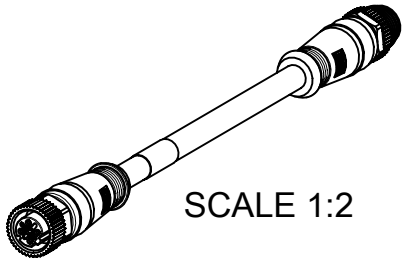
UL RATINGS FOR VOLTAGE & CURRENT
VOLTAGE RATING: 30V DC
AMPERAGE RATING: 1.5A

INSULATION RESISTANCE: 10^8 Ω MIN.
MATING CYCLES: MIN. 100

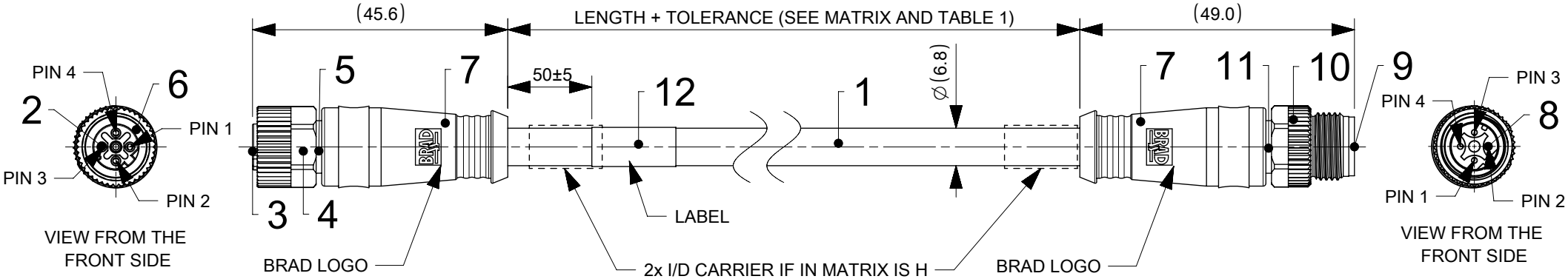
ENVIRONMENTAL:
PROTECTION: IP 67
OPERATING TEMPERATURE:
FOR M12 CONNECTOR: -25°C TO +85°C
FOR CABEL: -40°C TO +80°C (FIXED)
-10°C TO +70°C (FLEX)

WIRING DIAGRAM





SCALE 1:2



BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH
12	1	LABEL WH	-	-
11	1	SLEEVE MA	BRASS	Ni PLATED
10	1	LOCKING NUT MA	BRASS	Ni PLATED
9	1	INSERT MA 4P DCODE BK	PUR	-
8	4	TERMINAL MA	COPPER ALLOY	Au OVER Ni
7	-	MOLDING MATERIAL BK	TPU	-
6	1	GASKET ORING RD	FPM	-
5	1	SLEEVE FE	BRASS	Ni PLATED
4	1	LOCKING NUT FE	BRASS	Ni PLATED
3	1	INSERT FE 4P DCODE BK	PUR	-
2	4	TERMINAL FE	COPPER ALLOY	Au OVER Ni
1	-	CABLE 2x2x22AWG D6.8 GN	PUR	GREEN

DOCUMENT STATUS	P1	RELEASE DATE	2026/02/18 01:52:04

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

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS: mm
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: UPDATED VOLTAGE & CURRENT RATINGS AS PER STANDARD ALSO ADDED NEW PN 1201089273 IN TABLE 1.

EC NO: 847581
DRWN: NIKHIS3 2026/02/02
CHK'D: APAWLAK01 2026/02/17
APPR: HKNEELAND 2026/02/18

INITIAL REVISION:
DRWN: DSTACHOWIAK 2017/01/24
APPR: MIWASIECZKO 2017/01/25

THIRD ANGLE PROJECTION | DRAWING: A4-SIZE | SERIES: 120108

molex

CSE M12 4P DCODE MA STR PUR FE STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1201088381	PSD	000	A4

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1	GENERAL MARKET	1 OF 2

FORMAT: master-tb-prod-A4
REVISION: J1
DATE: 2021/05/01

PART NO. MATRIX

OPTIONS

E	1	1	A	0	3	0	1	2	M	X	X	X	X

- E=EtherCat
- HEADS:
  1 = M12 D-Coding
  1 = M12 D-Coding
- WIRING TYPE:
  A=4 Pole (STRAIGHT WIRED)
- HEADS STYLE:
  030 = FEMALE STR / MALE STR
- CABLE TYPE
  SEE CABLE TABLE
- UNITS:
  M= METER
  T=10x METER
- LENGTH EXAMPLES:
  005=0.5
  010=1
  150=15
- H= 2 PCS. OF I/D Carrier

CABLE SPECIFICATION

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	TEPERATURE RANGE: STATIC	TEPERATURE RANGE: DYNAMIC	DRAG CHAIN TESTED	SHIELD
12	0.34 mm^2	PUR BASED	STYLE 21215	YES	-40°C TO +80°C	-10°C TO +70°C	2 MIO CYCLES	YES

TABLE 1

MOLEX PN	ENGINEERING NO	LENGTH+TOLERANCE [mm]
1201088381	E11A03012M050	5000+60
1201088382	E11A03012M060	6000+80
1201088503	E11A03012M150	15000+140
1201088524	E11A03012M005	500+40
1201088580	E11A03012M100	10000+80
1201088772	E11A03012M020	2000+60
1201088798	E11A03012M010	1000+40
1201089273	E11A03012M180	18000+140

A4

DOCUMENT STATUS	P1	RELEASE DATE	2026/02/18 01:52:04

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THIRD ANGLE PROJECTION | DRAWING: A4-SIZE | SERIES: 120108

molex

CSE M12 4P DCODE MA STR PUR FE STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1201088381	PSD	000	A4

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1	GENERAL MARKET	2 OF 2

FORMAT: master-tb-prod-A4
REVISION: J1
DATE: 2021/05/01