NOTES:

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

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

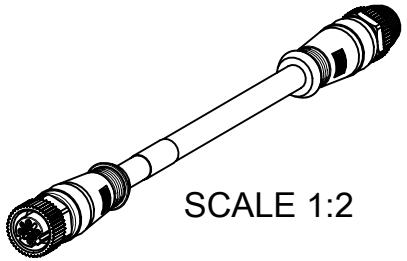
INSULATION RESISTANCE: $10^8$ Ω MIN.
MATING CYCLES: MIN. 100

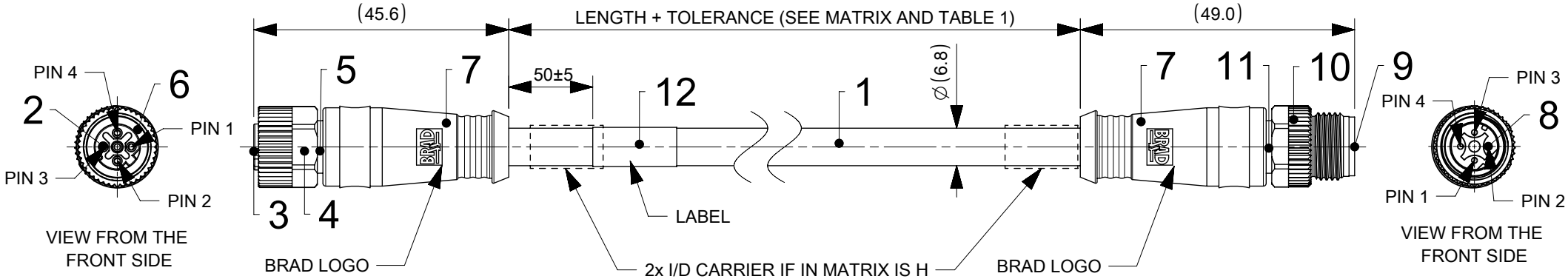
ENVIRONMENTAL:
PROTECTION: IP 67
OPERATING TEMPERATURE:
FOR M12 CONNECTOR: -25°C TO +85°C
FOR CABEL: -40°C TO +80°C (FIXED)
-10°C TO +70°C (FLEX)

A4

## WIRING DIAGRAM




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 |
|---|---|---|---|

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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 |

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## PART NO. MATRIX

| E | 1 | 1 | A | 0 | 3 | 0 | 1 | 2 | M | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | OPTIONS |

- 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
- OPTIONS: 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

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| 3 PLACES | ± |
| 2 PLACES | ± 0.05 |
| 1 PLACE | ± 0.3 |
| 0 PLACES | ± 0.5 |

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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 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A4-SIZE | 120108 | SEE TABLE 1 | GENERAL MARKET | 2 OF 2 |

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