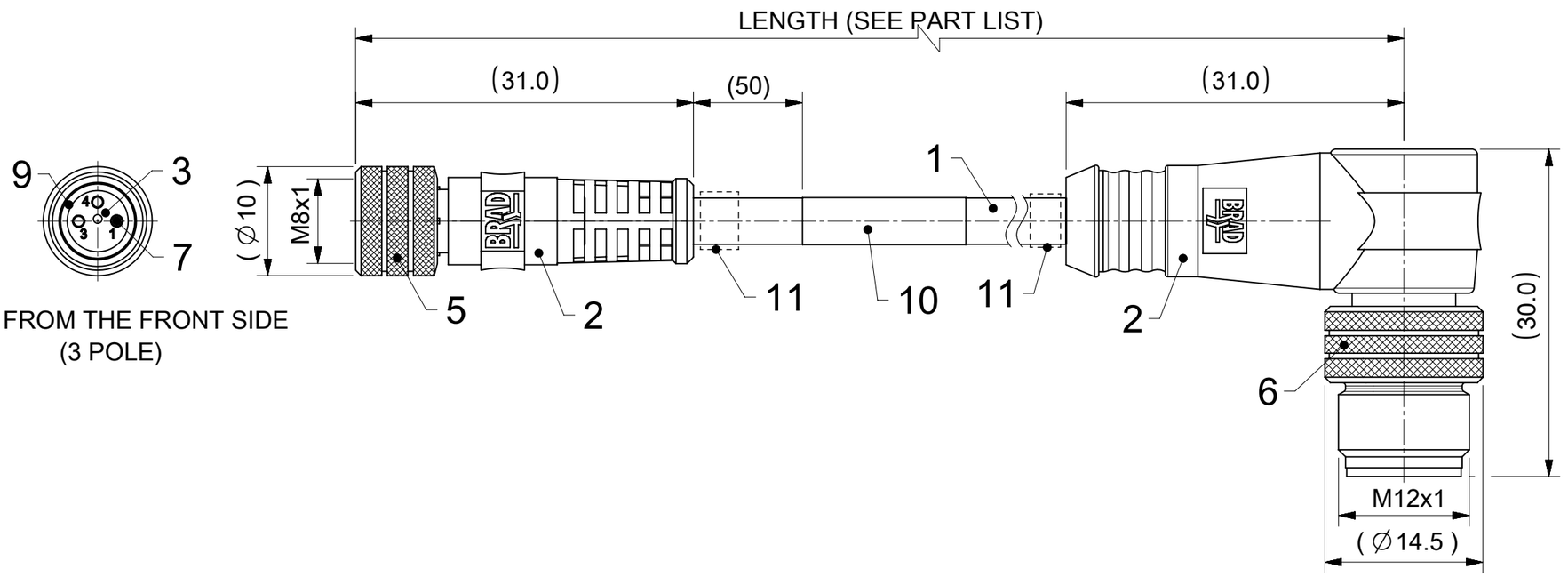
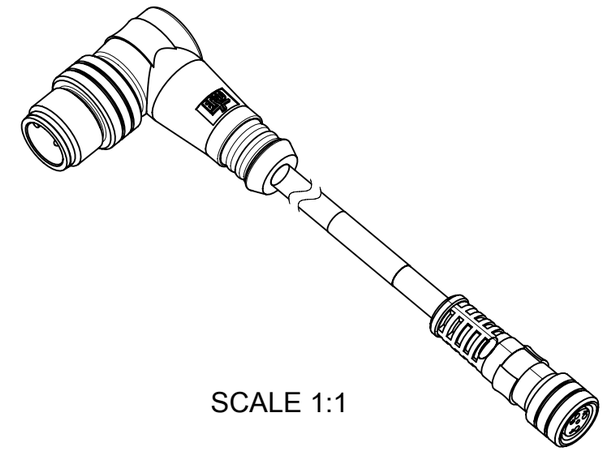
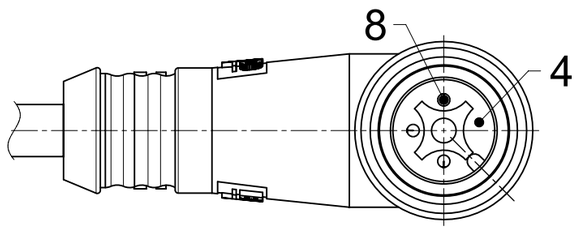



VIEW FROM THE FRONT SIDE
(3 POLE)



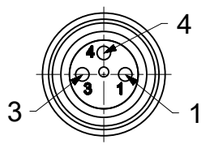
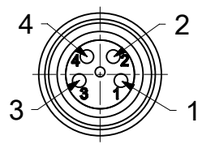
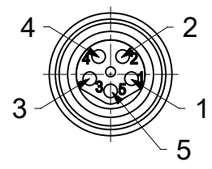
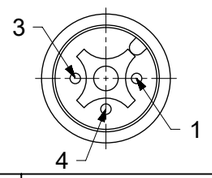
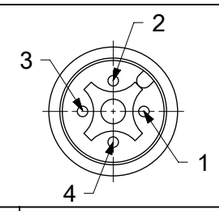
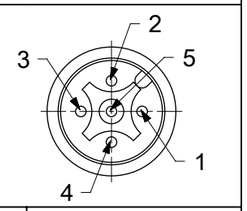
SCALE 1:1




VIEW FROM THE FRONT SIDE
(3 POLE)

NOTES:
1. LABEL ON THE CABLE / FOR CABLE IXX PRINTING ON THE CABLE
2. 2 x ID CARRIER IF IN MATRIX IS "H" OR FOR CABLE IXX & P82.

CONTACTS POSITION FRONT VIEW:

| | 3 CONTACTS | 4 CONTACTS | 5 CONTACTS |
|---|---|---|---|
| M8 - FEMALE |  |  |  |
| M12 - MALE |  |  |  |

| CONNECTIONS | PIN | WIRE | PIN | WIRE | PIN | WIRE |
|---|---|---|---|---|---|---|
| | 1 | BROWN | 1 | BROWN | 1 | BROWN |
| | 3 | BLUE | 2 | WHITE | 2 | WHITE |
| | 4 | BLACK | 3 | BLUE | 3 | BLUE |
| | | | 4 | BLACK | 4 | BLACK |
| | | | | | 5 | GREY |

CODING M8 ACCORDING TO IEC 61076-2-104
CODING M12 ACCORDING TO IEC IEC 61076-2-101

NOTES :
ELECTRICAL DATA :
RATED VOLTAGE: 3 contacts 60V AC/DC
4 & 5 contacts 30V AC/DC
CURRENT RATING: 3, 4 & 5 contacts 3A
INSULATION RESISTANCE : $10^8\Omega$ MIN.
MATING CYCLES : MIN. 100

ENVIRONMENTAL :
PROTECTION CLASS : IP67 IN MATED
AND LOCKED POSITION
OPERATING TEMPERATURE : -25°C TO +80°C

BOM

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|---|---|---|---|---|
| 1 | - | CABLE (SEE MATRIX) | - | - |
| 2 | - | MOULDING MATERIAL | TPU | BLACK |
| 3 | 1 | INSERT FE XP BK | PUR | BLACK |
| 4 | 1 | INSERT MA XP BK | PUR | BLACK |
| 5 | 1 | COUPLING NUT M8 FE | BRASS | Ni-PLATED /TEFLON COAT |
| 6 | 1 | COUPLING NUT M12 MA | | |
| 7 | 3/4/5 | CONTACT FE | BRONZE | GOLD OVER NICKEL PLATED |
| 8 | 3/4/5 | CONTACT MA | | |
| 9 | 1 | GASKET | FKM | RED |
| 10 | 1 | LABEL (SEE NOTE 1) | VINYL | YELLOW |
| 11 | X | ID CARRIER (SEE MATRIX) | PVC | TRANSPARENT |

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| | |
|---|---|
| DIMENSION UNITS | mm |
| SCALE | 2:1 |
| 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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#517104

EC NO: 836952
DRWN: SAMPRS 2025/10/11
CHK'D: GGA 2025/10/16
APPR: GGA 2025/10/16

INITIAL REVISION:
DRWN: MDHARMANTI 2022/03/11
APPR: RSILLER 2022/03/18

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 FE AC STR PUR/PVC M12 MA AC RA XP DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200878440 | PSD | 000 | B1 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE PART LIST | GENERAL MARKET | 1 OF 2 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/10/16 19:08:57 |
|---|---|---|---|

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

# PART NO MATRIX

| 4 | 8 | * | 0 | 3 | 2 | * | * | * | M | * | * | * | * | * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

OPTIONS

- 48 = M8x1/M12x1 DOUBLE ENDED
- POLES:
  3 = 3 POLES
  4 = 4 POLES
  5 = 5 POLES
- HEADER:
  032 = FEMALE STRAIGHT - MALE 90°
- CABLE TYPE SEE TABLE
- UNIT:
  M = METER
- LENGTH:
  EXAMPLE:
  010 = 1 m
  050 = 5 m
  100 = 10 m
- H = 2 PCS. OF I/D CARIERR
  MOLDING/OVERMOULD:
  BLANK = BLACK
  A = GREY
  G = BLACK
  Y = YELLOW
  COUPLING NUT:
  BLANK=KNU/HEX
  7=TEFLON



## CABLE LIST

| CABLE TYPE | NO. OF WIRES | CROSS SECTION | CABLE JACKET | UL | CSA | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN | SHIELD |
|---|---|---|---|---|---|---|---|---|---|
| E02 | 3 / 4 / 5 / 8 | 0.25mm² | PVC BLACK | UL 2464/1729 | C22.2 I/II A/B 80°C/300V | -30°C to +80°C, 10xO.D. | -10°C to +80°C, 15xO.D. | - | - |
| H09 | 3 / 4 / 5 | 0.34mm² | PUR BLACK LS0H | UL 21198/10493 | C22.2 I/II A/B 80°C/300V | -40°C to +80°C, 5xO.D. | -25°C to +80°C, 10xO.D. | 2 000 000 cycles at 20°C, Temp. range +5°C to +60°C | - |
| P02 | 3 / 4 / 5 / 8 | 0.25mm² | PUR / PVC BLACK | - | - | -30°C to +80°C, 7xO.D. | -5°C to +80°C, 15xO.D. | - | - |
| P82 | 3 / 4 / 5 | 0.34mm² | PUR IRR ORANGE | - | - | -50°C to +105°C, >5xO.D. | -40°C to +105°C, >7.5xO.D. | - | - |
| I02 | 3 / 4 / 8 | 0.25mm² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |
| B41 | 3 | 0.25mm² | TPU BLACK | UL STYLE 21215 | CSA RATING 80°C 600V | -40°C to +90°C, 5xO.D. | -25°C to +80°C, >7.5xO.D. | - | - |

## PART LIST

| MOLEX P/N | ENGINEERING No. | L [mm] |
|---|---|---|
| 3P CABLE E02 | | |
| 1200878439 | 483032E02M006 | 600 |
| 1200878440 | 483032E02M010 | 1000 |
| 1200878641 | 483032E02M015 | 1500 |
| 1200878581 | 483032E02M030 | 3000 |
| 1200878441 | 483032E02M050 | 5000 |
| 1200878442 | 483032E02M100 | 10000 |
| 1200878443 | 483032E02M150 | 15000 |
| 4P CABLE E02 | | |
| 1200878489 | 484032E02M003 | 300 |
| 1200878252 | 484032E02M050 | 5000 |
| 1200878490 | 484032E02M006 | 600 |
| 1200878491 | 484032E02M010 | 1000 |
| 1200878253 | 484032E02M100 | 10000 |
| 3P CABLE I02 | | |
| 1200878444 | 483032I02M010 | 1000 |
| 1200878831 | 483032I02M030Y | 3000 |
| 1200878445 | 483032I02M050 | 5000 |
| 1200878832 | 483032I02M050Y | 5000 |
| 1200878833 | 483032I02M100Y | 10000 |

| MOLEX P/N | ENGINEERING No. | L [mm] |
|---|---|---|
| 3P CABLE P02 | | |
| 1200878446 | 483032P02M006 | 600 |
| 1200878447 | 483032P02M010 | 1000 |
| 1200878919 | 483032P02M015 | 1500 |
| 1200878448 | 483032P02M020 | 2000 |
| 1200878449 | 483032P02M030 | 3000 |
| 1200878450 | 483032P02M050 | 5000 |
| 4P CABLE P02 | | |
| 1200878492 | 484032P02M020 | 2000 |

| MOLEX P/N | ENGINEERING No. | L [mm] |
|---|---|---|
| 4P CABLE B41 | | |
| 1200879048 | 484032B41M050 | 5000 |
| 1200879051 | 484032B41M100 | 10000 |
| 4P CABLE H09 | | |
| 1200878631 | 484032H09M030 | 3000 |

## CABLE LENGTH TOLERANCES

| LENGTH | TOLERANCE |
|---|---|
| 0m-1m | +40 mm |
| >1m-5m | +60 mm |
| >5m-10m | +80 mm |
| >10m-20m | +140 mm |
| >20m-30m | +160 mm |
| >30m | +1% length |

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | 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

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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 FE AC STR PUR/PVC M12 MA AC RA XP DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200878440 | PSD | 000 | B1 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE PART LIST | GENERAL MARKET | 2 OF 2 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/10/16 19:08:57 |
|---|---|---|---|

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