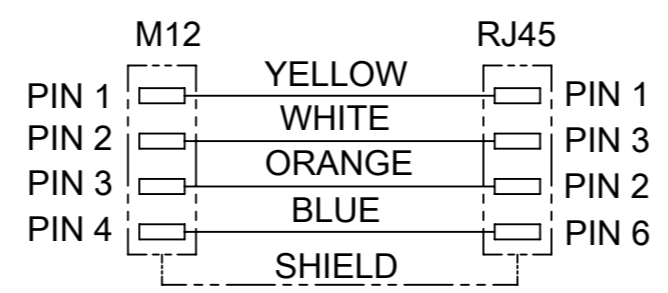


WIRING DIAGRAM



NOTES:

- ELECTRICAL DATA:
MAX. VOLTAGE RATING 60 VDC
MAX. CURRENT PER CONTACT 1.5 A
- ENVIRONMENTAL:
OPERATING TEMPERATURE SEE SHEET 2
INDEX OF PROTECTION RJ45: IP20
INDEX OF PROTECTION M12: IP67
- FOR MORE INFORMATION SEE PRODUCT SPECIFICATION 1201080202 PS P00

BOM

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH/COLOR |
|------|--------|-----------------------|-----------------|----------------|
| 9 | 4 | CONTACTS M12 MALE | BRASS | SELECTIVE GOLD |
| 8 | 1 | INSERT 4P MALE | PUR | BLACK |
| 7 | 1 | COUPLING NUT M12 MALE | BRASS | NICKEL |
| 6 | 1 | LABEL 50x69.8 | VINYL | WHITE |
| 5 | - | CABLE | SEE SHEET 2 | --- |
| 4 | - | OVERMOLD | TPU | BLACK |
| 3 | 1 | SHIELD | BRASS | TIN |
| 2 | 1 | PLUG RJ45 TRANSPARENT | POLYCARBONATE | --- |
| 1 | 4 or 8 | CONTACT RJ45 MALE | PHOSPHOR BRONZE | SELECTIVE GOLD |

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

FUNCTIONAL SYMBOLS: $\nabla/A = 0$, $\nabla/E = 0$, $\nabla/P = 0$

DIMENSION UNITS: mm, SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED):
ANGULAR TOL ± 1.0°
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.05
1 PLACE ± 0.1
0 PLACES ± 0.2

DIVISIONAL SYMBOLS: DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION:

DRAWING: A3-SIZE, SERIES: 120108, MATERIAL NUMBER: SEE SHEET 3, CUSTOMER: GENERAL MARKET, SHEET NUMBER: 1 OF 3

EC NO: 672185
DRWN: MDHARMANTI 2021/06/22
CHK'D: RSILLER 2021/09/20
APPR: RSILLER 2021/09/20

INITIAL REVISION:
DRWN: JMARSZALEK 2015/07/07
APPR: RSILLER 2020/05/12

DOCUMENT NUMBER: 1201080256, DOC TYPE: PSD, DOC PART: 000, REVISION: A5

molex
CSE M12 RJ45 4P DC MA STR MA STR XM
PRODUCT CUSTOMER DRAWING

NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

E 1 6 A 0 6 0 X X M X X X X

E=Ethernet

Heads:
1=M12x1
4P D-Code
6=RJ45

Wiring
type

Heads style:
060=MA M12 STR
/ RJ45 Plug STR

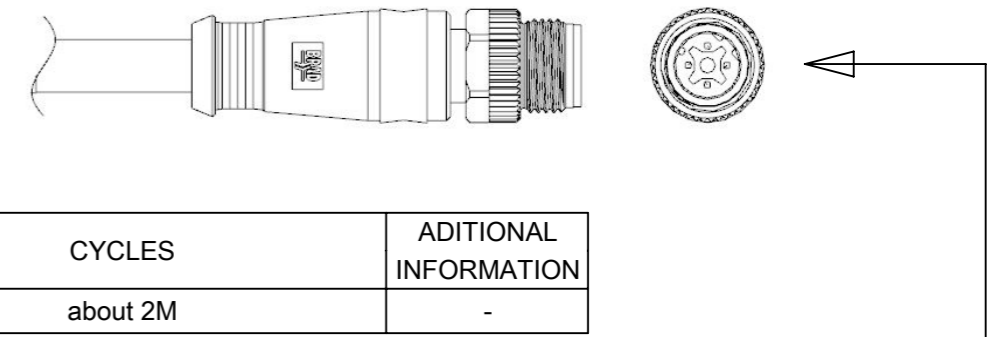
Cable type:
See cable table

Units:
M=Meter
T=10x meter

Length
Examples:
005=0.5 units
010=1 units
150=15 units

H= 2 pcs. of
I/D Carrier

FOR CABLE TYPE "12" & "16"
KNURLED/HEXAGONAL NUT - 1202070090



CABLE INFORMATION (for more information see Cable Data Sheet).

| CABLE TYPE | CABLE O.D. | APPLICATION | CROSS SECTION | CABLE JACKET | UL | TEMP. RANGE STATIC BENDING RADIUS STATIC | TEMP. RANGE DYNAMIC BENDING RADIUS DYNAMIC | CYCLES | ADDITIONAL INFORMATION |
|------------|------------|-----------------|---------------|--------------|-------------|--|--|----------|------------------------|
| 11 | ∅6.8mm | PROFINET TYPE C | 22AWG | PUR GREEN | STYLE 20549 | -40°C to +80°C / min.5xO.D. | -20°C to +70°C / min.7.5xO.D. | about 2M | - |


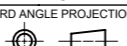
TABLE 2

| 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 |

| | | | | | | | |
|--|---|-----------------------------|--|----------|-----------------|----------------|--------------|
| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | CURRENT REV DESC: CABLE AND STDS UPDATED | | | | |
| ∇/A = 0 | DIMENSION UNITS | SCALE | | | | | |
| ∇/E = 0 | mm | 1:1 | | | | | |
| ∇/V = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | |
| DIVISIONAL SYMBOLS | ANGULAR TOL ± 1.0 ° | | EC NO: 672185 | | | | |
| | 4 PLACES ± | DRWN: MDHARMANTI 2021/06/22 | | | | | |
| | 3 PLACES ± | CHK'D: RSILLER 2021/09/20 | | | | | |
| | 2 PLACES ± 0.05 | APPR: RSILLER 2021/09/20 | | | | | |
| | 1 PLACE ± 0.1 | INITIAL REVISION: | | | | | |
| 0 PLACES ± 0.2 | DRWN: JMARSZALEK 2015/07/07 | | DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
| | | | A3-SIZE | 120108 | SEE SHEET 3 | GENERAL MARKET | 2 OF 3 |

PART LIST

| No. | Part No. | Engineering No. | L (Cable Length) |
|-----|------------|-----------------|------------------|
| 1 | 1201088255 | E16A06011M002 | 0.2m |
| 2 | 1201088120 | E16A06011M005 | 0.5m |
| 3 | 1201080256 | E16A06011M010 | 1m |
| 4 | 1201080203 | E16A06011M020 | 2m |
| 5 | 1201088121 | E16A06011M030 | 3m |
| 6 | 1201080289 | E16A06011M040 | 4m |
| 7 | 1201080257 | E16A06011M050 | 5m |
| 8 | 1201080285 | E16A06011M060 | 6m |
| 9 | 1201088122 | E16A06011M070 | 7m |
| 10 | 1201080286 | E16A06011M080 | 8m |
| 11 | 1201080290 | E16A06011M090 | 9m |
| 12 | 1201080258 | E16A06011M100 | 10m |
| 13 | 1201080291 | E16A06011M120 | 12m |
| 14 | 1201080292 | E16A06011M140 | 14m |
| 15 | 1201080259 | E16A06011M150 | 15m |
| 16 | 1201080293 | E16A06011M180 | 18m |
| 17 | 1201080260 | E16A06011M200 | 20m |
| 18 | 1201088123 | E16A06011M230 | 23m |
| 19 | 1201080261 | E16A06011M250 | 25m |
| 20 | 1201080262 | E16A06011M300 | 30m |
| 21 | 1201088388 | E16A06011M350 | 35m |
| 22 | 1201088199 | E16A06011M400 | 40m |
| 23 | 1201080263 | E16A06011M500 | 50m |
| 24 | 1201080294 | E16A06011M700 | 70m |
| 25 | 1201088196 | E16A06011M900 | 90m |
| 26 | 1201088200 | E16A06011T100 | 100m |

| | | | | | | |
|---|---|-------------------------|---|-------------------------------------|--|---|
| FUNCTIONAL SYMBOLS $\nabla/A = 0$ $\nabla/E = 0$ $\nabla/P = 0$ | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | CURRENT REV DESC: CABLE AND STDS UPDATED | |  <p>CSE M12 RJ45 4P DC MA STR MA STR XM</p> | |
| | DIMENSION UNITS: mm SCALE: 1:1 | | EC NO: 672185 DRWN: MDHARMANTI 2021/06/22 CHK'D: RSILLER 2021/09/20 APPR: RSILLER 2021/09/20 | | | PRODUCT CUSTOMER DRAWING |
| | GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° | | INITIAL REVISION: DRWN: JMARSZALEK 2015/07/07 APPR: RSILLER 2020/05/12 | | | |
| | DIVISIONAL SYMBOLS 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.1 0 PLACES ± 0.2 | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | DOC TYPE: PSD DOC PART: 000 REVISION: A5 |
| THIRD ANGLE PROJECTION  | | DRAWING: A3-SIZE | SERIES: 120108 | MATERIAL NUMBER: SEE SHEET 3 | CUSTOMER: GENERAL MARKET | |
| SHEET NUMBER: 3 OF 3 | | | | | | |

| | | | | |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2021/09/20 | 12:58:27 |
|-----------------|----|--------------|------------|----------|