



**ENGINEERING NO. - NUMERICAL CODE** (Available parts see PART LIST table. Others on request).

## OPTIONS

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 0 | X | 0 | 0 | 6 | X | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

80=M12x1  
Single ended

|              |
|--------------|
| Contacts:    |
| 3=3 Contacts |
| 4=4 Contacts |
| 5=5 Contacts |
| 8=8 Contacts |

Heads style:  
006=Plug Male Straight

Cable type: See Table

Units:  
M=Meter

Length  
Examples:  
005=0.5 unit  
010=1 unit  
100=10 units

Overmold color:  
Blank (Standard)=Black  
A=Grey / G=Black / Y=Yellow  
For Cable A09=Yellow

Coupling Nut:  
Blank (Standard) & 3=Knurled Brass Ni Plated  
1 or 8=Hexagonal Stainless steel  
5=Knurled Derlin  
7=Knurled Brass Ni Plated, Teflon Coated  
Blank=7 for cables I20, I26, K03, K05, P82, S26  
9=Knurled / Hexagonal Brass Ni Plated

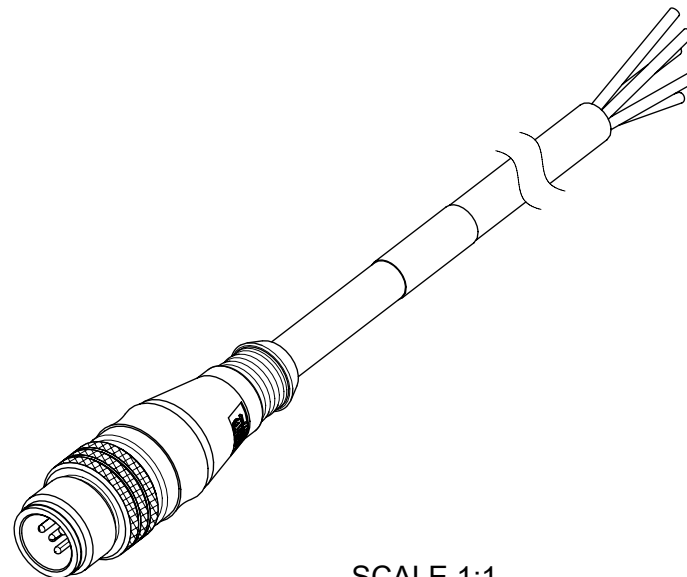
H= 2 pcs. of I/D Carrier PVC Transparent

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

| 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 | 0.25mm <sup>2</sup> | 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.         | -                                                   | -      |
| E03        | 3 / 4 / 5     | 0.34mm <sup>2</sup> | 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.         | -                                                   | -      |
| H08        | 3 / 4 / 5 / 8 | 0.25mm <sup>2</sup> | 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 | -      |
| H09        | 3 / 4 / 5     | 0.34mm <sup>2</sup> | 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 | 0.25mm <sup>2</sup> | PUR / PVC BLACK | -              | -                        | -30°C to +80°C, 7xO.D.         | -5°C to +80°C, 15xO.D.          | -                                                   | -      |
| P03        | 3 / 4 / 5     | 0.34mm <sup>2</sup> | PUR / PVC BLACK | -              | -                        | -30°C to +80°C, 7xO.D.         | -5°C to +80°C, 15xO.D.          | -                                                   | -      |
| A09        | 3             | 0.34mm <sup>2</sup> | PVC YELLOW      | -              | -                        | -                              | -                               | -                                                   | -      |
| K03        | 5             | 0.82mm <sup>2</sup> | TPE YELLOW      | -              | -                        | -                              | -                               | -                                                   | -      |
| K05        | 4             | 0.38mm <sup>2</sup> | TPE YELLOW      | -              | -                        | -                              | -                               | -                                                   | -      |

## CABLE LENGTH TOLERANCES

| OVER    | UP TO AND INCLUDING | TOLERANCES             |
|---------|---------------------|------------------------|
| 0       | 305mm               | +19mm                  |
| 305mm   | 915mm               | +45mm                  |
| 915mm   | 1830mm              | +56mm                  |
| 1830mm  | 3660mm              | +89mm                  |
| 3660mm  | 7320mm              | +165mm                 |
| 7320mm  | 14640mm             | +317mm                 |
| 14640mm | 30500mm             | +610mm                 |
| 30500mm | >                   | +2% of finished length |



SCALE 1:1

|                                                      |                                                                                                                                               |  |        |                        |                                                                                                       |         |        |                                 |                |              |          |          |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|------------------------|-------------------------------------------------------------------------------------------------------|---------|--------|---------------------------------|----------------|--------------|----------|----------|
| FUNCTIONAL SYMBOLS                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |        |                        |                                                                                                       |         |        |                                 |                |              |          |          |
|                                                      | DIMENSION UNITS                                                                                                                               |  | SCALE  |                        | CURRENT REV DESC: ADDED NEW PNS                                                                       |         |        | <div>molex</div>                |                |              |          |          |
|                                                      | mm                                                                                                                                            |  | 1:1    |                        |                                                                                                       |         |        |                                 |                |              |          |          |
|                                                      | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |        |                        |                                                                                                       |         |        | CSE M12 XP AC MA STR XM SE UNSH |                |              |          |          |
|                                                      | ANGULAR TOL ± 1.0°                                                                                                                            |  |        |                        |                                                                                                       |         |        |                                 |                |              |          |          |
|                                                      | 4 PLACES                                                                                                                                      |  | ±      |                        | EC NO: 695290<br>DRWN: MDHARMANTI 2021/12/02<br>CHK'D: RSILLER 2022/02/11<br>APPR: RSILLER 2022/02/11 |         |        | PRODUCT CUSTOMER DRAWING        |                |              |          |          |
|                                                      | 3 PLACES                                                                                                                                      |  | ±      |                        |                                                                                                       |         |        |                                 |                |              |          |          |
|                                                      | 2 PLACES                                                                                                                                      |  | ± 0.05 |                        |                                                                                                       |         |        |                                 |                |              |          |          |
|                                                      | 1 PLACE                                                                                                                                       |  | ± 0.3  |                        | INITIAL REVISION:<br>DRWN: JMARSZALEK 2016/01/12<br>APPR: RSILLER 2016/04/08                          |         |        | DOCUMENT NUMBER                 |                | DOC TYPE     | DOC PART | REVISION |
|                                                      | 0 PLACES                                                                                                                                      |  | ± 0.5  |                        |                                                                                                       |         |        | 1200659185                      |                | PSD          | 000      | A9       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                                                                                               |  |        | THIRD ANGLE PROJECTION |                                                                                                       | DRAWING | SERIES | MATERIAL NUMBER                 | CUSTOMER       | SHEET NUMBER |          |          |
|                                                      |                                                                                                                                               |  |        |                        |                                                                                                       | A3-SIZE | 120065 | SEE TABLE                       | GENERAL MARKET | 2 OF 4       |          |          |

|                 |    |              |            |          |
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| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/02/11 | 06:52:36 |
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