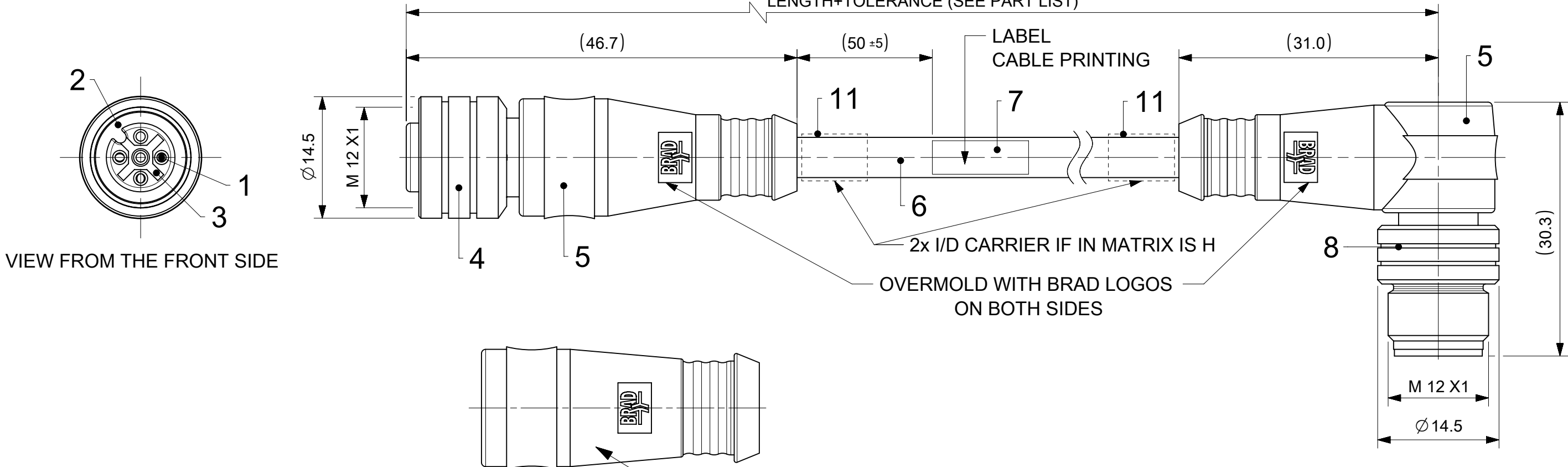


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 90° ANGLED

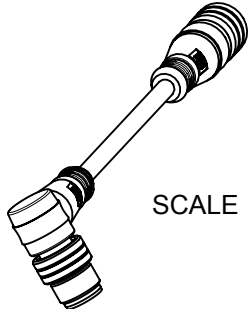


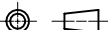
TECHNICAL SPECIFICATION:  
CONTACT CURRENT RATING: 3-5 POLES 4A  
8 POLES 2A  
VOLTAGE RATING: 3-4 POLES 250V  
5 POLES 60V DC  
8 POLES 30V  
PROTECTION CLASS: IP 67  
TEMPERATURE: -25°C / +85°C

BILL OF MATERIAL

|      |                |                     |                                    |                            |
|------|----------------|---------------------|------------------------------------|----------------------------|
| 11   | 2 (SEE MATRIX) | ID CARRIER          | PVC                                | TRANSPARENT                |
| 10   | 1              | INSERT MALE         | PUR                                | BLACK                      |
| 9    | 3/4/5/8        | CONTACT M12 MALE    | BRASS                              | SELECTIVE GOLD OVER NICKEL |
| 8    | 1              | COUPLING NUT MALE   | BRASS                              | NICKEL                     |
| 7    | 1              | LABEL               | VINYL                              | YELLOW                     |
| 6    | -              | CABLE               | SEE MATRIX/<br>CABLE SPECIFICATION | ---                        |
| 5    | -              | OVERMOULD           | TPU                                | SEE MATRIX                 |
| 4    | 1              | COUPLING NUT FEMALE | BRASS                              | NICKEL                     |
| 3    | 1              | INSERT FEMALE       | PUR                                | BLACK                      |
| 2    | 1              | O-RING              | FPM                                | RED                        |
| 1    | 3/4/5/8        | CONTACT M12 FEMALE  | BRASS                              | SELECTIVE GOLD OVER NICKEL |
| ITEM | QTY.           | DESCRIPTION         | MATERIAL                           | FINISH/COLOR               |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/11/30 | 11:33:39 |
|-----------------|----|--------------|------------|----------|



|                                                                                                                                               |  |        |  |                                                               |  |            |  |                                                                                               |  |                |          |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|---------------------------------------------------------------|--|------------|--|-----------------------------------------------------------------------------------------------|--|----------------|----------|--------------|
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| DIMENSION UNITS                                                                                                                               |  | SCALE  |  | CURRENT REV DESC: OBSOLETE PART NUMBERS<br>AS PER PCN#510807. |  |            |  | <div>molex</div> <div>CSE M12 XP AC FE STR MA RA XM</div> <div>PRODUCT CUSTOMER DRAWING</div> |  |                |          |              |
| mm                                                                                                                                            |  | 2:1    |  |                                                               |  |            |  |                                                                                               |  |                |          |              |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |        |  |                                                               |  |            |  |                                                                                               |  |                |          |              |
| ANGULAR TOL ± 1.0°                                                                                                                            |  |        |  |                                                               |  |            |  |                                                                                               |  |                |          |              |
| 4 PLACES                                                                                                                                      |  | ±      |  |                                                               |  |            |  | EC NO: 726454                                                                                 |  |                |          |              |
| 3 PLACES                                                                                                                                      |  | ±      |  | DRWN: LIKITV 2022/09/27                                       |  |            |  |                                                                                               |  |                |          |              |
| 2 PLACES                                                                                                                                      |  | ± 0.05 |  | CHK'D: GGA 2022/11/30                                         |  |            |  |                                                                                               |  |                |          |              |
| 1 PLACE                                                                                                                                       |  | ± 0.3  |  | APPR: GGA 2022/11/30                                          |  |            |  |                                                                                               |  |                |          |              |
| 0 PLACES                                                                                                                                      |  | ± 0.5  |  | INITIAL REVISION:                                             |  |            |  | DOCUMENT NUMBER                                                                               |  | DOC TYPE       | DOC PART | REVISION     |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |        |  | DRWN: DSOPPIN 2018/09/27                                      |  | 1200070026 |  | PSD                                                                                           |  | 000            | A7       |              |
|                                                                                                                                               |  |        |  | APPR: RSILLER 2018/10/22                                      |  |            |  |                                                                                               |  |                |          |              |
|                                                                                                                                               |  |        |  |                                                               |  |            |  |                                                                                               |  |                |          |              |
| THIRD ANGLE PROJECTION                                                                                                                        |  |        |  | DRAWING                                                       |  | SERIES     |  | MATERIAL NUMBER                                                                               |  | CUSTOMER       |          | SHEET NUMBER |
|                                                          |  |        |  | A3-SIZE                                                       |  | 120007     |  | SEE PART LIST                                                                                 |  | GENERAL MARKET |          | 1 OF 4       |

10

9

8

7

6

5

4

3

2

1

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

88X032XXXXXX

88 = M12x1  
Double ended

Poles:  
3 = 3 Poles  
4 = 4 Poles  
5 = 5 Poles  
8 = 8 Poles

Heads style:  
032 = Plugs FE Straight & Male 90°

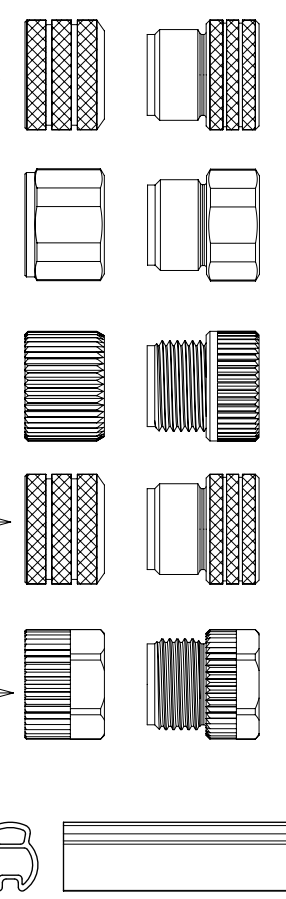
Cable types:  
E02=0.25mm² PVC Black  
E03=0.34mm² PVC Black  
E13=0.75mm² PVC Yellow  
E52=0.34mm² PVC Grey(RAL 7001)  
E57=0.34mm² PVC Grey(RAL 7001)  
H09=0.34mm² PUR Black  
H69=0.34mm² PUR Grey LSOH SCR  
I02=0.25mm² PVC Grey CEI  
I03=0.34mm² PVC Grey CEI  
I20=0.25mm² PVC Grey CEI SCR DC  
I26=0.34mm² PVC Grey CEI SCR AC  
P02=0.25mm² PUR/PVC Black  
P03=0.34mm² PUR/PVC Black  
P08=0.25mm² PUR Yellow HIFLEX  
P20=0.34mm² PUR Grey LSOH braid  
P82=0.34mm² PUR orange irradiated DC  
S20=0.34mm² PVC Yellow SJTO braid

Units:  
C = Centimeter  
M = Meter  
K = Kilometer  
F = Feet

Length  
Examples:  
020 = 2 M  
060 = 6 M  
100 = 10 M

Overmold color:  
Blank (Standard)=Black TPU  
Blank=Yellow PVC for cables  
A09, S19, S20, S26  
Blank=Yellow TPE-E for cables  
K03, K05  
A=Grey / G=Black / Y=Yellow  
Coupling Nut:  
Blank (Standard)=Knurled Brass Ni Plated  
1=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 SW13  
  
H= 2 pcs. of I/D Carrier PVC Transparent  
(Cables lxx & P82 always with 2 pcs. of I/D Carrier even if no H in Engineering No.)

COUPLING NUT  
FEMALE MALE



CABLE SPECIFICATION

| 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.         | -                                                   | -      |
| E03        | 3 / 4 / 5     | 0.34mm²       | 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.         | -                                                   | -      |
| E52        | 4             | 0.34mm²       | PVC GRAY        | -                   | -                        | - 30 to + 70°C                 | - 5 to + 70°C                   | -                                                   | -      |
| 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 | -      |
| H69        | 4             | 0.2mm²        | PUR LSOH        | -                   | -                        | -                              | -40°C to +80°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.          | -                                                   | -      |
| P03        | 3 / 4 / 5     | 0.34mm²       | PUR / PVC BLACK | -                   | -                        | -30°C to +80°C, >7xO.D.        | -5°C to +80°C, >15xO.D.         | -                                                   | -      |
| P82        | 4             | 0.34mm²       | PUR IRR ORANGE  | -                   | -                        | -50°C to +105°C,               | -50°C to +105°C,                | -                                                   | -      |
| I03        | 4             | 0.34mm²       | PVC GRAY        | -                   | -                        | -30°C to +70°C                 | -5°C to +70°C                   | -                                                   | -      |
| K03        | 4             | AWG18         | TPE YELLOW      | ITC E195601 OR PLTC | AWM I/II A/B FT4 LL54185 | -                              | -40°C to +105°C                 | -                                                   | -      |
| K05        | 4             | 0.34mm²       | TPE YELLOW      | ITC E195601 OR PLTC | AWM I/II A/B FT4 LL54185 | -                              | -40°C to +105°C                 | -                                                   | -      |
| S20        | 4             | 0.34mm²       | PVC YELLOW      | UL 2661/1731        | C22.2 AWM II             | -30°C to +105°C                | -40°C to +105°C                 | -                                                   | -      |

CABLE LENGTH TOLERANCE

| OVER  | UPTO AND INCULDING | TOLERANCE     |
|-------|--------------------|---------------|
| 0     | 305                | +19           |
| 305   | 915                | +45           |
| 915   | 1830               | +56           |
| 1830  | 3660               | +89           |
| 3660  | 7320               | +165          |
| 7320  | 14640              | +317          |
| 14640 | 30500              | +610          |
| 30500 | >                  | +2% OF LENGTH |

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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: OBSOLETE PART NUMBERS  
AS PER PCN#510807.

EC NO: 726454  
DRWN: LIKITV  
CHK'D: GGA  
APPR: GGA

INITIAL REVISION:  
DRWN: DSOPPIN  
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING  
A3-SIZE

SERIES  
120007

MATERIAL NUMBER  
SEE PART LIST

CUSTOMER  
GENERAL MARKET

SHEET NUMBER  
2 OF 4

moLEX

CSE M12 XP AC FE STR MA RA XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER  
1200070026

DOC TYPE  
PSD

DOC PART  
000

REVISION  
A7

DOCUMENT STATUS

P1

RELEASE DATE

2022/11/30 11:33:39

9

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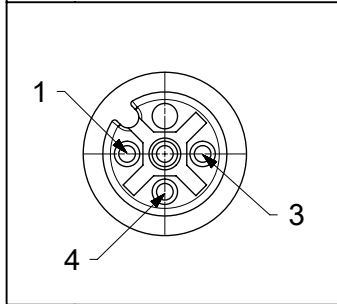
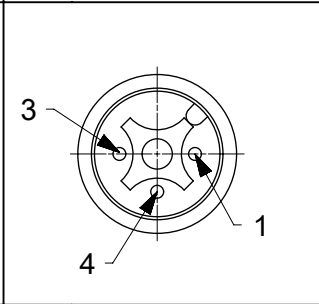
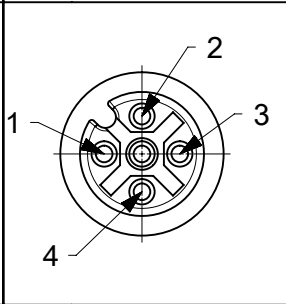
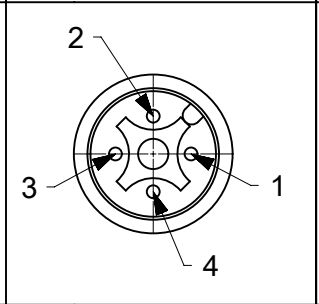
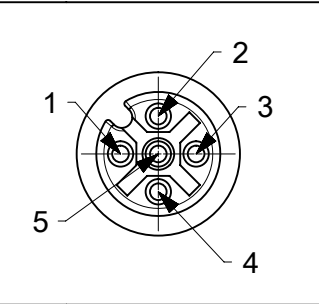
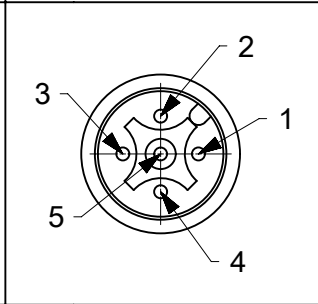
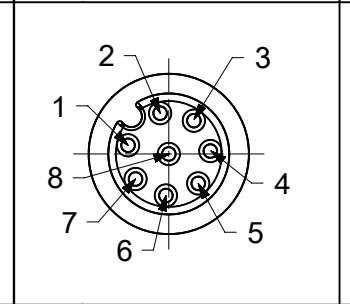
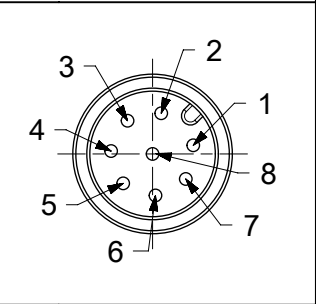
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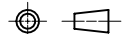
2

1

FORMAT: master-b-prod-A3  
REVISION: 11  
DATE: 2021/05/01

CONTACT POSITION FRONT VIEW:

| 3 POLES FEMALE                                                                    |       | 3 POLES MALE                                                                      |       | 4 POLES FEMALE                                                                     |       | 4 POLES MALE                                                                        |       | 5 POLES FEMALE                                                                      |                      | 5 POLES MALE                                                                        |                      | 8 POLES FEMALE                                                                      |        | 8 POLES MALE                                                                        |        |
|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|
|  |       |  |       |  |       |  |       |  |                      |  |                      |  |        |  |        |
| PIN                                                                               | WIRE  | PIN                                                                               | WIRE  | PIN                                                                                | WIRE  | PIN                                                                                 | WIRE  | PIN                                                                                 | WIRE                 | PIN                                                                                 | WIRE                 | PIN                                                                                 | WIRE   | PIN                                                                                 | WIRE   |
| 1                                                                                 | BROWN | 1                                                                                 | BROWN | 1                                                                                  | BROWN | 1                                                                                   | BROWN | 1                                                                                   | BROWN                | 1                                                                                   | BROWN                | 1                                                                                   | WHITE  | 1                                                                                   | WHITE  |
| 2                                                                                 | -     | 2                                                                                 | -     | 2                                                                                  | WHITE | 2                                                                                   | WHITE | 2                                                                                   | WHITE                | 2                                                                                   | WHITE                | 2                                                                                   | BROWN  | 2                                                                                   | BROWN  |
| 3                                                                                 | BLUE  | 3                                                                                 | BLUE  | 3                                                                                  | BLUE  | 3                                                                                   | BLUE  | 3                                                                                   | BLUE                 | 3                                                                                   | BLUE                 | 3                                                                                   | GREEN  | 3                                                                                   | GREEN  |
| 4                                                                                 | BLACK | 4                                                                                 | BLACK | 4                                                                                  | BLACK | 4                                                                                   | BLACK | 4                                                                                   | BLACK                | 4                                                                                   | BLACK                | 4                                                                                   | YELLOW | 4                                                                                   | YELLOW |
| 5                                                                                 | -     | 5                                                                                 | -     | 5                                                                                  | -     | 5                                                                                   | -     | 5                                                                                   | GREY OR GREEN/YELLOW | 5                                                                                   | GREY OR GREEN/YELLOW | 5                                                                                   | GREY   | 5                                                                                   | GREY   |
| CODING REQUIRED TO IEC 61076-2-101                                                |       |                                                                                   |       | CODING REQUIRED TO IEC 61076-2-101                                                 |       |                                                                                     |       | CODING REQUIRED TO IEC 61076-2-101                                                  |                      |                                                                                     |                      | 6                                                                                   | PINK   | 6                                                                                   | PINK   |
|                                                                                   |       |                                                                                   |       |                                                                                    |       |                                                                                     |       |                                                                                     |                      |                                                                                     |                      | 7                                                                                   | BLUE   | 7                                                                                   | BLUE   |
|                                                                                   |       |                                                                                   |       |                                                                                    |       |                                                                                     |       |                                                                                     |                      |                                                                                     |                      | 8                                                                                   | RED    | 8                                                                                   | RED    |
|                                                                                   |       |                                                                                   |       |                                                                                    |       |                                                                                     |       |                                                                                     |                      |                                                                                     |                      | CODING REQUIRED TO IEC 61076-2-101                                                  |        |                                                                                     |        |

|                                                                                                                                               |  |        |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|-------------------------------------------------------------------------------------------|--|--------|--|-----------------------------------------------------------------------------------------------|--|----------------|--|----------|--|--------------|--|
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| DIMENSION UNITS                                                                                                                               |  | SCALE  |  | CURRENT REV DESC: OBSOLETE PART NUMBERS<br>AS PER PCN#510807.                             |  |        |  | <div>molex</div> <div>CSE M12 XP AC FE STR MA RA XM</div> <div>PRODUCT CUSTOMER DRAWING</div> |  |                |  |          |  |              |  |
| mm                                                                                                                                            |  | 1:1    |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |        |  | EC NO: 726454<br>DRWN: LIKITV 2022/09/27<br>CHK'D: GGA 2022/11/30<br>APPR: GGA 2022/11/30 |  |        |  |                                                                                               |  |                |  |          |  |              |  |
|                                                                                                                                               |  |        |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| ANGULAR TOL ± 1.0 °                                                                                                                           |  |        |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| 4 PLACES                                                                                                                                      |  | ±      |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| 3 PLACES                                                                                                                                      |  | ±      |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| 2 PLACES                                                                                                                                      |  | ± 0.05 |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| 1 PLACE                                                                                                                                       |  | ± 0.3  |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| 0 PLACES                                                                                                                                      |  | ± 0.5  |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |        |  | INITIAL REVISION:<br>DRWN: DSOPPIN 2018/09/27<br>APPR: RSILLER 2018/10/22                 |  |        |  |                                                                                               |  |                |  |          |  |              |  |
|                                                                                                                                               |  |        |  |                                                                                           |  |        |  |                                                                                               |  |                |  |          |  |              |  |
| THIRD ANGLE PROJECTION                                                                                                                        |  |        |  | DRAWING                                                                                   |  | SERIES |  | DOCUMENT NUMBER                                                                               |  | DOC TYPE       |  | DOC PART |  | REVISION     |  |
|                                                          |  |        |  | A3-SIZE                                                                                   |  | 120007 |  | 1200070026                                                                                    |  | PSD            |  | 000      |  | A7           |  |
|                                                                                                                                               |  |        |  |                                                                                           |  |        |  | MATERIAL NUMBER                                                                               |  | CUSTOMER       |  |          |  | SHEET NUMBER |  |
|                                                                                                                                               |  |        |  |                                                                                           |  |        |  | SEE PART LIST                                                                                 |  | GENERAL MARKET |  |          |  | 3 OF 4       |  |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/11/30 | 11:33:39 |
|-----------------|----|--------------|------------|----------|

|                                                                                                                      |           |              |                |             |     |            |                |             |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|----------------------------------------------------------------------------------------------------------------------|-----------|--------------|----------------|-------------|-----|------------|----------------|-------------|-----|------------|---|-----------------|-------------|--------------|------------|----------|---|---|---|---|---|---|---|
|                                                                                                                      | 10        | 9            | 8              | 7           | 6   | 5          | 4              | 3           | 2   | 1          |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| F                                                                                                                    | PART LIST |              |                |             |     |            |                |             |     |            | F |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | NO.       | MOLEX PN     | ENGINEERING PN | LENGTH (mm) | NO. | MOLEX PN   | ENGINEERING PN | LENGTH (mm) | NO. | MOLEX PN   |   | ENGINEERING PN  | LENGTH (mm) |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 1         | 1200070158   | 883032E03M003  | 300         | 53  | 1200661018 | 884032K03M060  | 6000        | 104 | 1200669897 |   | 884032E03M040   | 4000        |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 2         | 1200070159   | 883032E03M006  | 600         | 54  | 1200661021 | 884032K03M090  | 9000        | 105 | 1200669890 |   | 884032P03M060   | 6000        |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 3         | 1200070160   | 883032E03M010  | 1000        | 55  | 1200661022 | 884032K03M100  | 10000       | 106 | 1200669891 |   | 884032P03M100   | 10000       |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 4         | 1200070161   | 883032E03M020  | 2000        | 56  | 1200661023 | 884032K03M120  | 12000       | 107 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 5         | 1200668205   | 883032E03M050  | 5000        | 57  | 1200661480 | 884032K03M200  | 20000       | 108 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 6         | 1200072378   | 883032E03M060  | 6000        | 58  | 1200660398 | 884032K05M005  | 500         | 109 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 7         | 1200668053   | 883032E03M100  | 10000       | 59  | 1200660400 | 884032K05M010  | 1000        | 110 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 8         | 1200668268   | 883032E03M200  | 20000       | 60  | 1200660401 | 884032K05M015  | 1500        | 111 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| E                                                                                                                    | 9         | 1200072879   | 883032H09M010  | 1000        | 61  | 1200660402 | 884032K05M020  | 2000        | 112 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 10        | 1200070166   | 883032I03M006  | 600         | 62  | 1200660403 | 884032K05M030  | 3000        | 113 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 11        | 1200668007   | 883032I03M010  | 1000        | 63  | 1200073045 | 884032K05M035  | 3500        | 114 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 12        | 1200070171   | 883032P03M006  | 600         | 64  | 1200660404 | 884032K05M040  | 4000        | 115 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 13        | 1200070172   | 883032P03M010  | 1000        | 65  | 1200660405 | 884032K05M050  | 5000        | 116 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 14        | 1200070173   | 883032P03M020  | 2000        | 66  | 1200660406 | 884032K05M060  | 6000        | 117 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 15        | 1200070174   | 883032P03M030  | 3000        | 67  | 1200073042 | 884032K05M070  | 7000        | 118 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 16        | 1200072294   | 883032P03M0305 | 3000        | 68  | 1200661540 | 884032K05M080  | 8000        | 119 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 17        | 1200668341   | 883032P03M050  | 5000        | 69  | 1200668345 | 884032P03M002G | 200         | 120 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 18        | 1200668763   | 883032P03M0501 | 5000        | 70  | 1200072838 | 884032P03M003  | 300         | 121 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| D                                                                                                                    | 19        | 1200072705   | 883032P03M060  | 6000        | 71  | 1200071519 | 884032P03M006  | 600         | 122 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 20        | 1200070184   | 883032S20M010  | 1000        | 72  | 1200071407 | 884032P03M010  | 1000        | 123 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 21        | 1200070185   | 883032S20M020  | 2000        | 73  | 1200070547 | 884032P03M0105 | 1000        | 124 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 22        | 1200668663   | 884032E02M050  | 5000        | 74  | 1200669261 | 884032P03M015  | 1500        | 125 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 23        | 1200668072   | 884032E03M006  | 600         | 75  | 1200070026 | 884032P03M020  | 2000        | 126 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 24        | 1200668073   | 884032E03M010  | 1000        | 76  | 1200071520 | 884032P03M030  | 3000        | 127 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 25        | 1200668755   | 884032E03M012  | 1200        | 77  | 1200070914 | 884032P03M050  | 5000        | 128 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 26        | 1200668756   | 884032E03M014  | 1400        | 78  | 1200072213 | 884032P03M1005 | 10000       | 129 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 27        | 1200665032   | 884032E03M020  | 2000        | 79  | 1200668177 | 884032S20M020  | 2000        | 130 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 28        | 1200071014   | 884032E03M030  | 3000        | 80  | 1200668161 | 884032S20M030  | 3000        | 131 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| C                                                                                                                    | 29        | 1200072163   | 884032E03M0501 | 5000        | 81  | 1200070907 | 884032S20M050  | 5000        | 132 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 30        | 1200668075   | 884032E03M100  | 10000       | 82  | 1200668974 | 885032E03M003  | 300         | 133 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 31        | 1200668200   | 884032E03M1001 | 10000       | 83  | 1200668979 | 885032E03M006  | 600         | 134 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 32        | 1200668307   | 884032E03M1005 | 10000       | 84  | 1200071271 | 885032E03M010  | 1000        | 135 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 33        | 1200668309   | 884032E03M1205 | 12000       | 85  | 1200668092 | 885032E03M020  | 2000        | 136 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 34        | 1200668173   | 884032E03M1501 | 15000       | 86  | 1200668975 | 885032E03M025  | 2500        | 137 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 35        | 1200668223   | 884032E03M200  | 20000       | 87  | 1200668976 | 885032E03M030  | 3000        | 138 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 36        | 1200668308   | 884032E03M2005 | 20000       | 88  | 1200668977 | 885032E03M050  | 5000        | 139 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 37        | 1200071277   | 884032E52M010A | 1000        | 89  | 1200668978 | 885032E03M100  | 10000       | 140 |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 38        | 1200070841   | 884032E52M020A | 2000        | 90  | 1200668493 | 885032H09M010  | 1000        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| B                                                                                                                    | 39        | 1200668494   | 884032H09M010  | 1000        | 91  | 1200668603 | 885032P03M020G | 2000        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 40        | 1200668290   | 884032H09M020  | 2000        | 92  | 1200661925 | 885032P03M080  | 8000        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 41        | 1200668311   | 884032H69M010  | 1000        | 93  | 1200661926 | 885032P03M100  | 10000       |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 42        | 1200668076   | 884032H69M030  | 3000        | 94  | 1200669119 | 885032P03M190  | 19000       |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 43        | 1200668312   | 884032H69M050  | 5000        | 95  | 1200669767 | 888032E02M0201 | 2000        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 44        | 1200665040   | 884032H69M100  | 10000       | 96  | 1200669768 | 888032E02M0301 | 3000        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 45        | 1200072424   | 884032I03M003  | 300         | 97  | 1200669769 | 888032E02M0501 | 5000        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 46        | 1200668522   | 884032I03M020  | 2000        | 98  | 1200669770 | 888032E02M1001 | 10000       |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 47        | 1200661012   | 884032K03M006  | 600         | 99  | 1200669892 | 884032E03M009  | 900         |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 48        | 1200661013   | 884032K03M010  | 1000        | 100 | 1200669893 | 884032E03M013  | 1300        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| A                                                                                                                    | 49        | 1200661014   | 884032K03M020  | 2000        | 101 | 1200669894 | 884032E03M016  | 1600        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 50        | 1200661015   | 884032K03M030  | 3000        | 102 | 1200669895 | 884032E03M021  | 2100        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 51        | 1200661598   | 884032K03M036  | 3600        | 103 | 1200669896 | 884032E03M032  | 3200        |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
|                                                                                                                      | 52        | 1200661017   | 884032K03M050  | 5000        |     |            |                |             |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |
| <table><tr><td>DOCUMENT STATUS</td><td>P1</td><td>RELEASE DATE</td><td>2022/11/30</td><td>11:33:39</td></tr></table> |           |              |                |             |     |            |                |             |     |            |   | DOCUMENT STATUS | P1          | RELEASE DATE | 2022/11/30 | 11:33:39 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| DOCUMENT STATUS                                                                                                      | P1        | RELEASE DATE | 2022/11/30     | 11:33:39    |     |            |                |             |     |            |   |                 |             |              |            |          |   |   |   |   |   |   |   |

|                                                                                                                                               |  |                     |  |                                                                                           |  |         |  |                                                           |  |                 |  |                          |  |              |  |          |  |          |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|-------------------------------------------------------------------------------------------|--|---------|--|-----------------------------------------------------------|--|-----------------|--|--------------------------|--|--------------|--|----------|--|----------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                     |  |                                                                                           |  |         |  |                                                           |  |                 |  |                          |  |              |  |          |  |          |  |
| DIMENSION UNITS<br><b>mm</b>                                                                                                                  |  | SCALE<br><b>1:1</b> |  | CURRENT REV DESC: OBSOLETE PART NUMBERS<br>AS PER PCN#510807.                             |  |         |  | <div>molex</div> <div>CSE M12 XP AC FE STR MA RA XM</div> |  |                 |  |                          |  |              |  |          |  |          |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)<br><br>ANGULAR TOL ± 1.0 °                                                                              |  |                     |  | EC NO: 726454<br>DRWN: LIKITV 2022/09/27<br>CHK'D: GGA 2022/11/30<br>APPR: GGA 2022/11/30 |  |         |  |                                                           |  |                 |  | PRODUCT CUSTOMER DRAWING |  |              |  |          |  |          |  |
| 4 PLACES ±                                                                                                                                    |  |                     |  |                                                                                           |  |         |  | INITIAL REVISION:                                         |  |                 |  | DOCUMENT NUMBER          |  | DOC TYPE     |  | DOC PART |  | REVISION |  |
| 3 PLACES ±                                                                                                                                    |  |                     |  |                                                                                           |  |         |  | DRWN: DSOPPIN 2018/09/27                                  |  |                 |  | 1200070026               |  | PSD          |  | 000      |  | A7       |  |
| 2 PLACES ±                                                                                                                                    |  | 0.05                |  |                                                                                           |  |         |  | APPR: RSILLER 2018/10/22                                  |  |                 |  |                          |  |              |  |          |  |          |  |
| 1 PLACE ±                                                                                                                                     |  | 0.3                 |  |                                                                                           |  |         |  |                                                           |  |                 |  |                          |  |              |  |          |  |          |  |
| 0 PLACES ±                                                                                                                                    |  | 0.5                 |  |                                                                                           |  |         |  |                                                           |  |                 |  |                          |  |              |  |          |  |          |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |                     |  | THIRD ANGLE PROJECTION<br>                                                                |  | DRAWING |  | SERIES                                                    |  | MATERIAL NUMBER |  | CUSTOMER                 |  | SHEET NUMBER |  |          |  |          |  |
|                                                                                                                                               |  |                     |  |                                                                                           |  | A3-SIZE |  | 120007                                                    |  | SEE PART LIST   |  | GENERAL MARKET           |  | 4 OF 4       |  |          |  |          |  |