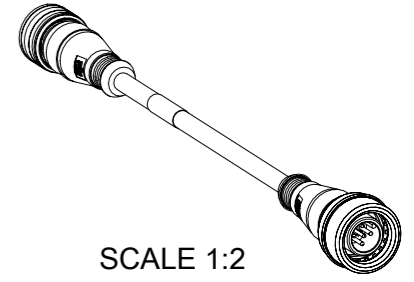
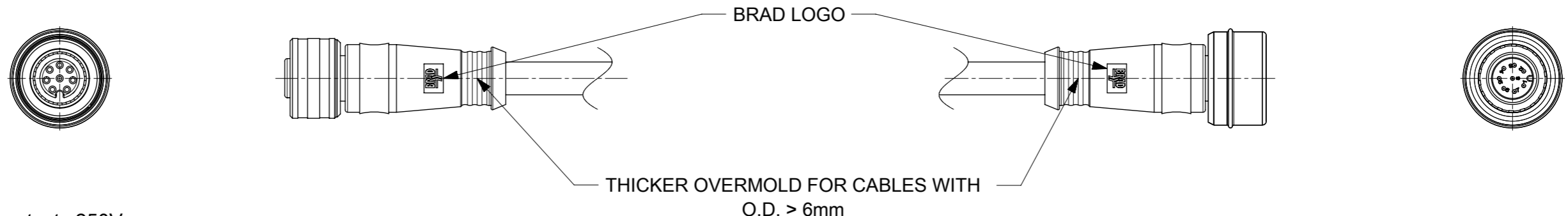
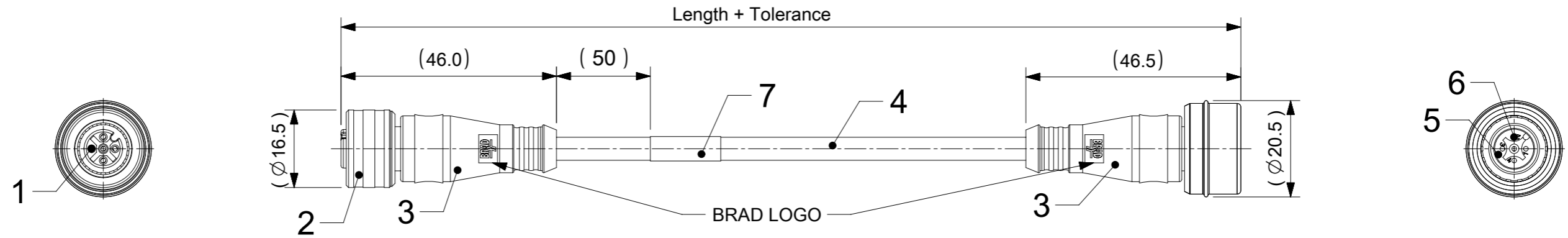


# FEMALE PLUG M12U STRAIGHT TO MALE PLUG M12U STRAIGHT



**NOTES:**

RATED VOLTAGE: 3, 4 contacts 250V  
 5 contacts 60V  
 8 contacts 30V

RATED CURRENT: 3, 4, 5 contacts 4A  
 8 contacts 2A

PROTECTION CLASS: IP 67  
 TEMPERATURE: -25°C / +80°C

**CONTACTS POSITION FRONT VIEW:**

|             | 3 CONTACTS |       | 4 CONTACTS |       | 5 CONTACTS |                      | 8 CONTACTS |        |
|-------------|------------|-------|------------|-------|------------|----------------------|------------|--------|
| FEMALE      |            |       |            |       |            |                      |            |        |
| MALE        |            |       |            |       |            |                      |            |        |
| CONNECTIONS | PIN        | WIRE  | PIN        | WIRE  | PIN        | WIRE                 | PIN        | WIRE   |
|             | 1          | BROWN | 1          | BROWN | 1          | BROWN                | 1          | WHITE  |
|             | 2          | -     | 2          | WHITE | 2          | WHITE                | 2          | BROWN  |
|             | 3          | BLUE  | 3          | BLUE  | 3          | BLUE                 | 3          | GREEN  |
|             | 4          | BLACK | 4          | BLACK | 4          | BLACK                | 4          | YELLOW |
|             |            |       |            |       | 5          | GREY OR GREEN/YELLOW | 5          | GREY   |
|             |            |       |            |       |            |                      | 6          | PINK   |
|             |            |       |            |       |            |                      | 7          | BLUE   |
|             |            |       |            |       |            | 8                    | RED        |        |

CODING REQUIRED TO IEC 61076-2-101

**FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2**

|      |               |                    |             |                            |
|------|---------------|--------------------|-------------|----------------------------|
| 7    | 1             | LABEL YELLOW       | VINYL       | -                          |
| 6    | 3 / 4 / 5 / 8 | CONTACT MALE       | BRASS       | SELECTIVE GOLD OVER NICKEL |
| 5    | 1             | PLUG U12 MALE XP   | PUR, BRASS  | -                          |
| 4    | -             | CABLE              | SEE SHEET 2 | -                          |
| 3    | -             | OVERMOULDING BLACK | TPU         | -                          |
| 2    | 1             | PLUG U12 FEMALE XP | PUR, BRASS  | -                          |
| 1    | 3 / 4 / 5 / 8 | CONTACT FEMALE     | BRASS       | SELECTIVE GOLD OVER NICKEL |
| ITEM | QTY.          | DESCRIPTION        | MATERIAL    | FINISH                     |

|  |   |                                     |   |                             |                          |
|--|---|-------------------------------------|---|-----------------------------|--------------------------|
| 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: MALE PLUG UPDATED |   | <b>molex</b>                |                          |
| ▲/A = 0  | DIMENSION UNITS: mm   | SCALE: 1:1                          | CSE U12 XP AC STR PUR/PVC MA XP STR XM DE |                             |                          |
| ▽/E = 0  | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                                     | EC NO: 695694                             |                             | PRODUCT CUSTOMER DRAWING |
| ▽/F = 0  | ANGULAR TOL ± 1.0°  |                                     | DRWN: MDHARMANTI 2022/01/21               |                             |                          |
| DIVISIONAL SYMBOLS                                   | 4 PLACES ±  | CHK'D: RSILLER 2022/02/15           |   | DOCUMENT NUMBER: 1200805076 |                          |
|  | 3 PLACES ±  | APPR: RSILLER 2022/02/15            |   | DOC TYPE: PSD               |                          |
|  | 2 PLACES ± 0.05   | INITIAL REVISION:                   |   | DOC PART: 000               |                          |
|  | 1 PLACE ± 0.3   | DRWN: MDHARMANTI 2022/01/21         |   | REVISION: A                 |                          |
| 0 PLACES ± 0.5                                       | APPR: RSILLER 2022/02/15  |                                     | SERIES: 120080                            |                             | SHEET NUMBER: 1 OF 3     |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   | THIRD ANGLE PROJECTION              | DRAWING: A3-SIZE                          | MATERIAL NUMBER: SEE MATRIX |                          |

# ENGINEERING NO. - NUMERICAL CODE

## OPTIONS

W W X 0 3 0 X X X M X X X X X

W = M12  
Ultra-Lock

W = M12  
Ultra-Lock

Contacts:  
3=3 Contacts  
4=4 Contacts  
5=5 Contacts  
8=8 Contacts

Heads style:  
030=Plug Female Straight  
to Plug Male Straight

Cable type: See Table

Units:  
M=Meter

Length  
Examples:  
005=0.5m  
010=1m  
100=10m

Overmold color:  
Blank (Standard)=Black  
A=Grey / G=Black / Y=Yellow  
H=2x ID CARRIER

## CABLE INFORMATION

| CABLE TYPE | NO. OF WIRES  | CROSS SECTION       | CABLE JACKET     | UL             | CSA                      | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN  | SHIELD |
|------------|---------------|---------------------|------------------|----------------|--------------------------|--------------------------------|---------------------------------|---|--------|
| 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.          | -   | -      |
| P82        | 5             | 0.34mm <sup>2</sup> | PUR / IRR ORANGE | -              | -                        | -50°C to +105°C, 5xO.D.        | -40°C to +105°C, 7.5xO.D.       | -   | -      |

## CABLE LENGTH TOLERANCES


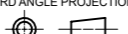
| OVER [mm] | UP TO AND INCLUDING [mm] | TOLERANCES [mm]        |
|-----------|--------------------------|------------------------|
| 0         | 305                      | +19                    |
| 305       | 915                      | +45                    |
| 915       | 1830                     | +56                    |
| 1830      | 3660                     | +89                    |
| 3660      | 7320                     | +165                   |
| 7320      | 14640                    | +317                   |
| 14640     | 30500                    | +610                   |
| 30500     | >                        | +2% of finished 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: MALE PLUG UPDATED |  |                 | <b>molex</b>                              |  |  |
|                    | FUNCTIONAL SYMBOLS  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                     |  |                 |   |  |  |
|                    | FUNCTIONAL SYMBOLS  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | EC NO: 695694                       |  |                 | CSE U12 XP AC STR PUR/PVC MA XP STR XM DE |  |  |
|                    | FUNCTIONAL SYMBOLS  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | DRWN: MDHARMANTI 2022/01/21         |  |                 | PRODUCT CUSTOMER DRAWING                  |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | CHK'D: RSILLER 2022/02/15   |                                     |  | DOCUMENT NUMBER |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | APPR: RSILLER 2022/02/15  |                                     |  | 1200805076      |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | INITIAL REVISION:   |                                     |  | DOC TYPE        |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | DRWN: MDHARMANTI 2022/01/21   |                                     |  | PSD             |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | APPR: RSILLER 2022/02/15  |                                     |  | 000             |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                                     |  | A               |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | THIRD ANGLE PROJECTION  |                                     |  | SHEET NUMBER    |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | DRAWING   |                                     |  | 2 OF 3          |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | SERIES  |                                     |  | A               |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | MATERIAL NUMBER   |                                     |  | A               |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | CUSTOMER  |                                     |  | A               |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | SEE MATRIX  |                                     |  | A               |   |  |  |
| DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | GENERAL MARKET  |                                     |  | A               |   |  |  |

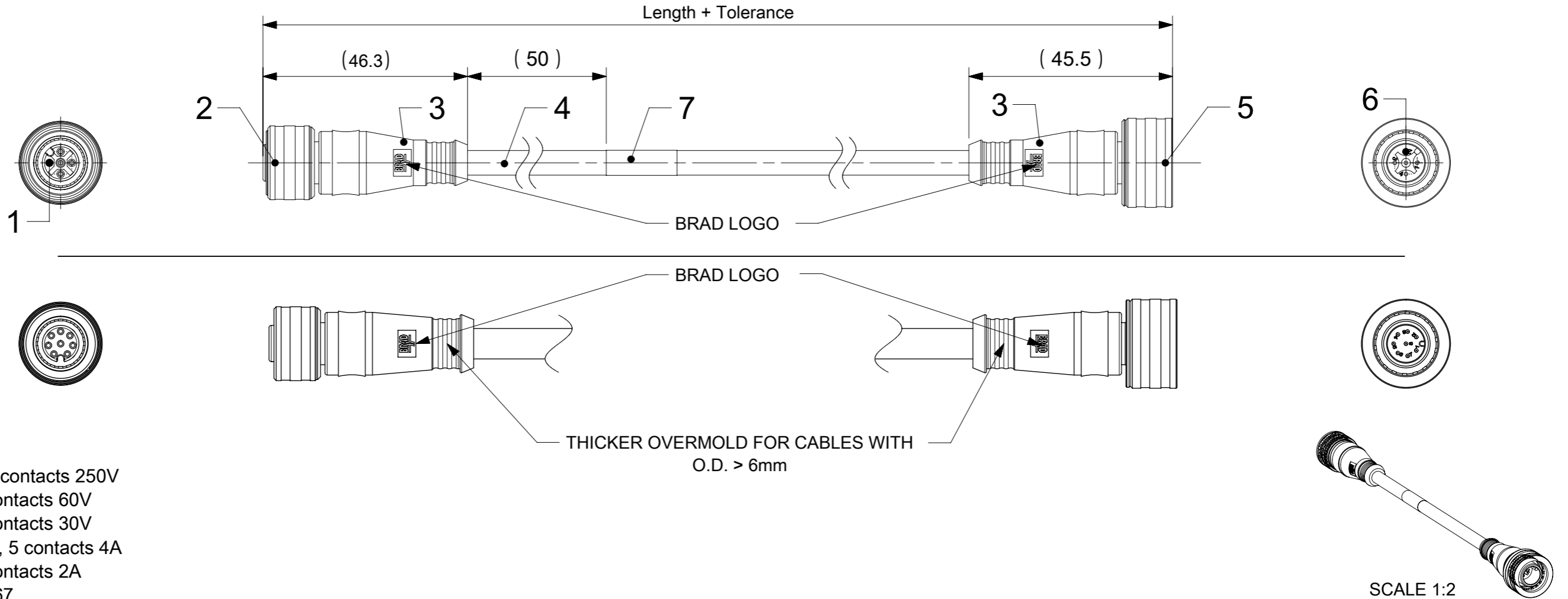
PART LIST

| NO. | MOLEX PN   | ENGINEERING NO. | LENGTH |
|-----|------------|-----------------|--------|
| 1   | 1200808154 | WW5030P82M020   | 2M     |
| 2   | 1200808155 | WW5030P82M030   | 3M     |
| 3   | 1200808156 | WW5030P82M050   | 5M     |
| 4   | 1200808157 | WW5030P82M070   | 7M     |
| 5   | 1200808158 | WW5030P82M100   | 10M    |
| 6   | 1200210002 | WW4030E03M050   | 5M     |
| 7   | 1200800469 | WW4030E03M010   | 1M     |
| 8   | 1200800470 | WW4030E03M020   | 2M     |
| 9   | 1200805076 | WW5030E03M010   | 1M     |
| 10  | 1200808016 | WW5030E03M050   | 5M     |
| 11  | 1200805018 | WW4030P03M020   | 2M     |
| 12  | 1200805022 | WW4030P03M005   | 0.5M   |
| 13  | 1200805044 | WW4030P03M006   | 0.6M   |
| 14  | 1200805049 | WW5030P03M006   | 0.6M   |
| 15  | 1200805050 | WW5030P03M010   | 1M     |
| 16  | 1200805051 | WW5030P03M020   | 2M     |
| 17  | 1200808115 | WW4030P03M018   | 1.8M   |
| 18  | 1200808133 | WW5030P03M100   | 10M    |
| 19  | 1200805019 | WW5030P03M050   | 5M     |
| 20  | 1200805048 | WW4030P03M050   | 5M     |
| 21  | 1200805052 | WW5030P03M030   | 3M     |
| 22  | 1200805053 | WW5030P03M040   | 4M     |
| 23  | 1200808070 | WW5030P03M050A  | 5M     |
| 24  | 1200808071 | WW5030P03M020A  | 2M     |
| 25  | 1200805083 | WW8030P02M010   | 1M     |
| 26  | 1200805096 | WW8030P02M020   | 2M     |
| 27  | 1200808043 | WW5030P02M003G  | 0.3M   |
| 28  | 1200805097 | WW8030P02M050   | 5M     |
| 29  | 1200808072 | WW8030P02M020A  | 2M     |
| 30  | 1200808073 | WW8030P02M050A  | 5M     |
| 31  | 1200808129 | WW8030P02M0208  | 2M     |

| NO. | MOLEX PN   | ENGINEERING NO. | LENGTH |
|-----|------------|-----------------|--------|
| 32  | 1200808026 | WW3030H09M010   | 1M     |
| 33  | 1200808031 | WW4030H09M010   | 1M     |
| 34  | 1200808039 | WW5030H09M010   | 1M     |
| 35  | 1200808107 | WW5030H09M020   | 2M     |
| 36  | 1200808033 | WW8030H08M010   | 1M     |
| 37  | 1200808139 | WW8030H08M020   | 2M     |
| 38  | 1200808140 | WW8030H08M050   | 5M     |
| 39  | 1200798157 | WW5030E03M100   | 10M    |
| 40  | 1200798158 | WW8030H08M100   | 10M    |
| 41  | 1200210001 | WW4030E03M100   | 10M    |
| 42  | 1200808015 | WW5030E03M020   | 2M     |

|  |   |   |   |            |                 |
|--|---|---|---|------------|-----------------|
| FUNCTIONAL SYMBOLS                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   |  |            |                 |
|  | $\nabla_A = 0$<br>$\nabla_B = 0$<br>$\nabla_C = 0$  | DIMENSION UNITS: <b>mm</b><br>SCALE: <b>1:1</b>                                       |   |            |                 |
| DIVISIONAL SYMBOLS                                   | GENERAL TOLERANCES (UNLESS SPECIFIED)   |   | CSE U12 XP AC STR PUR/PVC MA XP STR XM DE   |            |                 |
|  | ANGULAR TOL $\pm 1.0^\circ$   |   | EC NO: 695694   |            |                 |
|  | 4 PLACES $\pm$  |   | DRWN: MDHARMANTI  | 2022/01/21 |                 |
|  | 3 PLACES $\pm$  |   | CHK'D: RSILLER  | 2022/02/15 |                 |
|  | 2 PLACES $\pm 0.05$   |   | APPR: RSILLER   | 2022/02/15 |                 |
| 1 PLACE $\pm 0.3$                                    |   | INITIAL REVISION:   |   |            |                 |
| 0 PLACES $\pm 0.5$                                   |   | DRWN: MDHARMANTI  | 2022/01/21  |            |                 |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   | THIRD ANGLE PROJECTION  | DRAWING   | SERIES     | MATERIAL NUMBER |
|  |   |  | A3-SIZE   | 120080     | SEE MATRIX      |
|  |   |   |   |            | CUSTOMER        |
|  |   |   |   |            | GENERAL MARKET  |
|  |   |   |   |            | SHEET NUMBER    |
|  |   |   |   |            | 3 OF 3          |

# FEMALE PLUG M12U STRAIGHT TO MALE PLUG M12U STRAIGHT



**NOTES:**

- RATED VOLTAGE: 3, 4 contacts 250V  
5 contacts 60V  
8 contacts 30V
- RATED CURRENT: 3, 4, 5 contacts 4A  
8 contacts 2A
- PROTECTION CLASS: IP 67
- TEMPERATURE: -25°C / +80°C

**CONTACTS POSITION FRONT VIEW:**

|             | 3 CONTACTS |       | 4 CONTACTS |       | 5 CONTACTS |                      | 8 CONTACTS |        |
|-------------|------------|-------|------------|-------|------------|----------------------|------------|--------|
| FEMALE      |            |       |            |       |            |                      |            |        |
| MALE        |            |       |            |       |            |                      |            |        |
| CONNECTIONS | PIN        | WIRE  | PIN        | WIRE  | PIN        | WIRE                 | PIN        | WIRE   |
|             | 1          | BROWN | 1          | BROWN | 1          | BROWN                | 1          | WHITE  |
|             | 2          | -     | 2          | WHITE | 2          | WHITE                | 2          | BROWN  |
|             | 3          | BLUE  | 3          | BLUE  | 3          | BLUE                 | 3          | GREEN  |
|             | 4          | BLACK | 4          | BLACK | 4          | BLACK                | 4          | YELLOW |
|             |            |       |            |       | 5          | GREY OR GREEN/YELLOW | 5          | GREY   |
|             |            |       |            |       |            |                      | 6          | PINK   |
|             |            |       |            |       |            |                      | 7          | BLUE   |
|             |            |       |            |       |            | 8                    | RED        |        |

CODING REQUIRED TO IEC 61076-2-101

**FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2**

| ITEM | QTY.          | DESCRIPTION        | MATERIAL    | FINISH                     |
|------|---------------|--------------------|-------------|----------------------------|
| 7    | 1             | LABEL YELLOW       | VINYL       | -                          |
| 6    | 3 / 4 / 5 / 8 | CONTACT MALE       | BRASS       | SELECTIVE GOLD OVER NICKEL |
| 5    | 1             | PLUG U12 MALE XP   | PUR, BRASS  | -                          |
| 4    | -             | CABLE              | SEE SHEET 2 | -                          |
| 3    | -             | OVERMOULDING BLACK | TPU         | -                          |
| 2    | 1             | PLUG U12 FEMALE XP | PUR, BRASS  | -                          |
| 1    | 3 / 4 / 5 / 8 | CONTACT FEMALE     | BRASS       | SELECTIVE GOLD OVER NICKEL |

|  |   |  |  |   |  |   |  |
|--|---|--|--|---|--|---|--|
| <b>QUALITY SYMBOLS</b><br>FA = 0<br>FE = 0<br>FF = 0<br>FV = 0<br>FC = 0<br>FX = 0<br>FS = 0<br>FT = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | DIMENSION UNITS: mm<br>SCALE: 1:1  |   |  |   |  |
|  | EC NO: 178454<br>DRWN: SSM<br>CHK'D: SSM<br>REV APPR: RSILLER   | 2018/06/21<br>2018/06/27<br>2018/06/28 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>ANGULAR TOL ± 1.0 °<br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.05<br>1 PLACE ± 0.3<br>0 PLACES ± 0.5 |   |  | DRWN BY: MKOWALCZYK01<br>DATE: 2017/05/18<br>CHK'D BY:<br>DATE:<br>APPR BY: MIWASIECZKO<br>DATE: 2017/05/31 | PRODUCT CUSTOMER DRAWING<br>M12U-XP-FE-STR-XP-M-STR-XM |
|  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |  | DRAWING SIZE: A3<br>THIRD ANGLE PROJECTION   | SERIES: 120080<br>MATERIAL NUMBER: SEE MATRIX<br>CUSTOMER: GENERAL MARKET |  |   |  |
|  | DOCUMENT NUMBER: 1200805076   |  | DOC TYPE: PSD<br>DOC PART: 00P   | SHEET NUMBER: 1 OF 3  |  |   |  |

# ENGINEERING NO. - NUMERICAL CODE

W W X 0 3 0 X X X M X X X X X

## OPTIONS

W = M12  
Ultra-Lock

W = M12  
Ultra-Lock

Contacts:  
3=3 Contacts  
4=4 Contacts  
5=5 Contacts  
8=8 Contacts

Heads style:  
030=Plug Female Straight  
to 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  
H=2x ID CARRIER

## CABLE INFORMATION

| CABLE TYPE | NO. OF WIRES  | CROSS SECTION       | CABLE JACKET     | UL             | CSA                      | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN  | SHIELD |
|------------|---------------|---------------------|------------------|----------------|--------------------------|--------------------------------|---------------------------------|---|--------|
| 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.          | -   | -      |
| P82        | 5             | 0.34mm <sup>2</sup> | PUR / IRR ORANGE | -              | -                        | -50°C to +105°C, 5xO.D.        | -40°C to +105°C, 7.5xO.D.       | -   | -      |

## CABLE LENGTH TOLERANCES

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

|   |   |   |  |  |  |   |  |                                |  |  |  |
|---|---|---|--|--|--|---|--|--------------------------------|--|--|--|
| <b>QUALITY SYMBOLS</b><br>                              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   |  |  |  |   |  |                                |  |  |  |
|   | EC NO: 178454<br>DRWN: SSM<br>CHK'D: SSM<br>REV APPR: RSILLER   | 2018/06/21<br>2018/06/27<br>2018/06/28  |  | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>ANGULAR TOL ± 1.0 ° |  | DIMENSION UNITS: mm<br>SCALE: 1:1   |  | <br>M12U-XP-FE-STR-XP-M-STR-XM |  |  |  |
|   |   | 4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.05<br>1 PLACE ± 0.3<br>0 PLACES ± 0.5        |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS         |  | DRWN BY: MKOWALCZYK01<br>DATE: 2017/05/18<br>CHK'D BY:<br>DATE:                                       |  |                                |  |  |  |
|   |   | APPR BY: MIWASIECZKO<br>DATE: 2017/05/31  |  | DRAWING SIZE: A3<br>THIRD ANGLE PROJECTION                   |  | PRODUCT CUSTOMER DRAWING<br>SERIES: 120080<br>MATERIAL NUMBER: SEE MATRIX<br>CUSTOMER: GENERAL MARKET |  |                                |  |  |  |
| RELEASE STATUS: P1<br>RELEASE DATE: 2018/06/28 06:17:11 |   | DOCUMENT NUMBER: 1200805076<br>DOC TYPE: PSD<br>DOC PART: 00P<br>SHEET NUMBER: 2 OF 3 |  |  |  |   |  |                                |  |  |  |

PART LIST

| NO. | MOLEX PN   | ENGINEERING NO. | LENGTH |
|-----|------------|-----------------|--------|
| 1   | 1200808154 | WW5030P82M020   | 2M     |
| 2   | 1200808155 | WW5030P82M030   | 3M     |
| 3   | 1200808156 | WW5030P82M050   | 5M     |
| 4   | 1200808157 | WW5030P82M070   | 7M     |
| 5   | 1200808158 | WW5030P82M100   | 10M    |
| 6   | 1200210002 | WW4030E03M050   | 5M     |
| 7   | 1200800469 | WW4030E03M010   | 1M     |
| 8   | 1200800470 | WW4030E03M020   | 2M     |
| 9   | 1200805076 | WW5030E03M010   | 1M     |
| 10  | 1200808016 | WW5030E03M050   | 5M     |
| 11  | 1200805018 | WW4030P03M020   | 2M     |
| 12  | 1200805022 | WW4030P03M005   | 0.5M   |
| 13  | 1200805044 | WW4030P03M006   | 0.6M   |
| 14  | 1200805049 | WW5030P03M006   | 0.6M   |
| 15  | 1200805050 | WW5030P03M010   | 1M     |
| 16  | 1200805051 | WW5030P03M020   | 2M     |
| 17  | 1200808115 | WW4030P03M018   | 1.8M   |
| 18  | 1200808133 | WW5030P03M100   | 10M    |
| 19  | 1200805019 | WW5030P03M050   | 5M     |
| 20  | 1200805048 | WW4030P03M050   | 5M     |
| 21  | 1200805052 | WW5030P03M030   | 3M     |
| 22  | 1200805053 | WW5030P03M040   | 4M     |
| 23  | 1200808070 | WW5030P03M050A  | 5M     |
| 24  | 1200808071 | WW5030P03M020A  | 2M     |
| 25  | 1200805083 | WW8030P02M010   | 1M     |
| 26  | 1200805096 | WW8030P02M020   | 2M     |
| 27  | 1200808043 | WW5030P02M003G  | 0.3M   |
| 28  | 1200805097 | WW8030P02M050   | 5M     |
| 29  | 1200808072 | WW8030P02M020A  | 2M     |
| 30  | 1200808073 | WW8030P02M050A  | 5M     |
| 31  | 1200808129 | WW8030P02M0208  | 2M     |

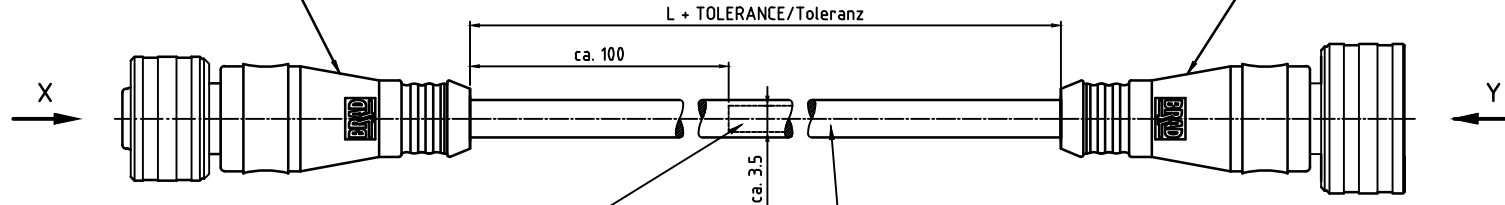
| NO. | MOLEX PN   | ENGINEERING NO. | LENGTH |
|-----|------------|-----------------|--------|
| 32  | 1200808026 | WW3030H09M010   | 1M     |
| 33  | 1200808031 | WW4030H09M010   | 1M     |
| 34  | 1200808039 | WW5030H09M010   | 1M     |
| 35  | 1200808107 | WW5030H09M020   | 2M     |
| 36  | 1200808033 | WW8030H08M010   | 1M     |
| 37  | 1200808139 | WW8030H08M020   | 2M     |
| 38  | 1200808140 | WW8030H08M050   | 5M     |
| 39  | 1200798157 | WW5030E03M100   | 10M    |
| 40  | 1200798158 | WW8030H08M100   | 10M    |
| 41  | 1200210001 | WW4030E03M100   | 10M    |
| 42  | 1200808015 | WW5030E03M020   | 2M     |

|                     |   |  |                                       |                        |                 |                         |  |                |              |  |  |
|---------------------|---|--|---------------------------------------|------------------------|-----------------|-------------------------|--|----------------|--------------|--|--|
| QUALITY SYMBOLS<br> | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                       |                        |                 |                         |  |                |              |  |  |
|                     | EC NO: 178454<br>DRWN: SSM<br>CHK'D: SSM<br>REV APPR: RSILLER   | 2018/06/21<br>2018/06/27<br>2018/06/28               | GENERAL TOLERANCES (UNLESS SPECIFIED) |                        | DIMENSION UNITS | SCALE                   | <br>M12U-XP-FE-STR-XP-M-STR-XM<br>PRODUCT CUSTOMER DRAWING |                |              |  |  |
|                     |   |  | ANGULAR TOL ± 1.0 °                   |                        | mm              | 1:1                     |  |                |              |  |  |
|                     |   |  | 4 PLACES ±                            | DRWN BY DATE           |                 | MKOWALCZYK01 2017/05/18 |  |                |              |  |  |
|                     |   |  | 3 PLACES ±                            | CHK'D BY DATE          |                 |                         |  |                |              |  |  |
|                     |   |  | 2 PLACES ± 0.05                       | APPR BY DATE           |                 | MIWASIECZKO 2017/05/31  |  |                |              |  |  |
|                     | 1 PLACE ± 0.3   | DRAWING SIZE   |                                       | THIRD ANGLE PROJECTION | SERIES          | MATERIAL NUMBER         | CUSTOMER   |                |              |  |  |
|                     | 0 PLACES ± 0.5  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                       | A4                     | A4              | 120080                  | SEE MATRIX   | GENERAL MARKET |              |  |  |
|                     |   |  |                                       |                        |                 | DOCUMENT NUMBER         | DOC TYPE   | DOC PART       | SHEET NUMBER |  |  |
|                     |   |  |                                       |                        |                 | 1200805076              | PSD  | 00P            | 3 OF 3       |  |  |

RELEASE STATUS P1 RELEASE DATE 2018/06/28 06:17:11

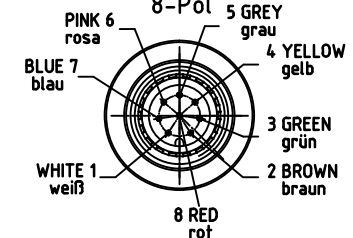
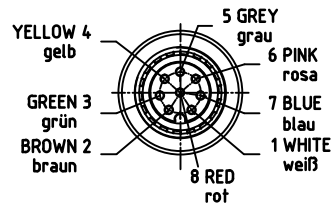
OVERMOLD PUR, COLOUR SEE TABLE  
Umspritzung PUR, Farbe siehe Tabelle

OVERMOLD PUR, COLOUR SEE TABLE  
Umspritzung PUR, Farbe siehe Tabelle



VIEW X / Ansicht X  
MATING SIDE  
FEMALE CABLE CONNECTOR U-LOCK  
Steckseite  
Kabeldose U-Lock  
8-Pol

VIEW Y / Ansicht Y  
MATING SIDE  
MALE CABLE CONNECTOR U-LOCK  
Steckseite  
Kabelstecker U-Lock  
8-Pol



CABLE PRINTING:  
Kabelbedruckung: Molex ... X..

CABLE/Leitung PUR/PVC BLACK/sw 8x0.25mm; D6,7

PROD. DATE / Fertigungsdatum

| GENERAL CHARACTERISTICS                  |                              | Allgemeine Kennwerte           | STANDARD Norm   |
|--|------------------------------|--------------------------------|---|
| NUMBER OF CONTACTS CONTACT CONFIGURATION |                              | Polzahl Kontaktanordnung       | IEC 60947-5-2 8   |
| RATED VOLTAGE                            |                              | Bemessungsspannung             | IEC 60664-1 30V AC / DC                                   |
| POLLUTION DEDREE                         |                              | Verschmutzungsgrad             | IEC 60664-1 3   |
| CURRENT CARRYING CAPAC.                  |                              | Betriebsstrom                  | IEC 60512-3 Test 5 b 2A (40°)                             |
| CONTACT RESISTANCE                       |                              | Durchgangswiderstand           | IEC 60512-2 Test 2 a < 5mOhm                              |
| RATED IMPULSE WITHSTAND VOLTAGE          |                              | Bemessungsstoßspannung         | IEC 60664-1 0,8 kV  |
| TEST VOLTAGE                             |                              | Prüfspannung                   | IEC 60512-2 Test 4 a 0,5 kV / 60 sec                      |
| INSULATION RESISTANCE                    |                              | Isolationswiderstand           | IEC 60512-2 Test 3 a > 100 MOhm                           |
| IP DEGREE OF PROTECTION                  |                              | IP-Schutzart                   | IEC 60529 IP 67   |
| PIN DIAMETER                             |                              | Stiftdurchmesser               | 0,8 mm  |
| MATERIALS                                | CONTACTS                     | Kontakte                       | BRASS / Messing   |
|  | CONTACTS PLATING             | Kontaktoberfläche              | Ni/Au   |
|  | DIELECTRIC MATERIAL          | Kontaktträger                  | PUR   |
|  | HOUSING (OVERMOLD)           | Gehäuse (Umspritzung)          | PUR   |
|  | GASKETS (O-RING) PUSH SLEEVE | Dichtung (O-Ring) Schiebehülse | VITON CuZn (BRASS) WITH/mit NICKEL PLATED / Ni-Oberfläche |
| TERMINATION                              |                              | Anschlussart                   | Crimp   |
| FLAMM ABILITY                            | INSERTS                      | Kontaktträger                  | UL 94 HB HB   |
|  | HOUSING (OVERMOLD)           | Gehäuse (Umspritzung)          |   |
|  | CABLE                        | Leitung / Kabel                |   |
| MECHANICAL OPERATION                     |                              | Mechanische Lebensdauer        | 100 MATING CYCLES/Steckzyklen                             |
| TEMPERATURE RANGE                        |                              | Temperaturbereich              | IEC 60668-1 -25°C / +80°C                                 |

| PART-NUMBER  | ENGINEERING-NO.  | OVERMOLD COLOUR   | LENGTH L     |
|--------------|------------------|-------------------|--------------|
| Teile-Nummer | Engineering Nr.: | Umspritzungsfarbe | Länge L      |
| 1200805083   | WW8030P02M010    | BLACK/schwarz     | 1000 +20/-10 |
| 1200805096   | WW8030P02M020    | BLACK/schwarz     | 2000 ±25     |
| 1200805097   | WW8030P02M050    | BLACK/schwarz     | 5000 ±25     |

(...) DIM. FOR INFORMATION  
(...) Informationsmaß

| DESCRIPTION<br>EC NO.: IPG2015-0241<br>06.08.14<br>DRWN: BBR/BAUCH<br>CHKD: REISSNER<br>2014/08/07<br>APPR: CBU/BURGER<br>2011/003/18 | QUALITY SYMBOLS<br>▽ = 0<br>▽C = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |      | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>2:1  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |                    |
|---|------------------------------------|---------------------------------------|------|----------------------------|--------------------|---|------------------------|------------------------|--------------------|
|   |                                    | mm                                    | INCH | DRAWN BY<br>LSTEMMLE       | DATE<br>2010/03/17 | CHECKED BY<br>NS  | DATE<br>2010/03/18     | APPROVED BY<br>FPACHER | DATE<br>2010/03/18 |
| 3   | REV                                | 4 PLACES ±---                         |      | DRAWN BY DATE              |                    | CSE U12 8P FE STR PUR<br>MA STR XM BK<br>----<br><b>molex</b>   |                        |                        |                    |
|   |                                    | 3 PLACES ±---                         |      | CHECKED BY DATE            |                    |   |                        |                        |                    |
|   |                                    | 2 PLACES ±---                         |      | APPROVED BY DATE           |                    |   |                        |                        |                    |
| 1 PLACE ±0.3  |                                    | MATERIAL NO.                          |      | DOCUMENT NO.               |                    | SD-120080-055   |                        |                        |                    |
| 0 PLACE ±---  |                                    | ANGULAR ± --- °                       |      | SEE TABLE                  |                    | SHEET NO.<br>1 OF 1   |                        |                        |                    |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                                    |                                       |      | SIZE<br>A2                 |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |                    |