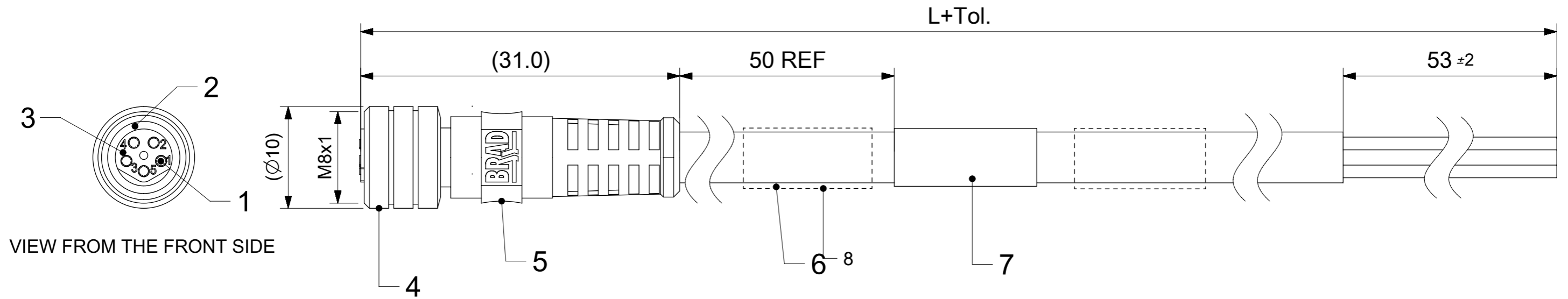


# FEMALE PLUG M8 STRAIGHT



VIEW FROM THE FRONT SIDE

## NOTES:

- RATED VOLTAGE: 3 contacts 60V AC/DC  
4 and 5 contacts 30V AC/DC
- CURRENT RATING: 3, 4, 5 contacts 3A
- PROTECTION CLASS: IP 67
- TEMPERATURE: -25°C / +80°C

### CONTACTS POSITION FRONT VIEW:

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

CODING ACCORDING TO IEC 61076-2-104

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

| ITEM | QTY.      | DESCRIPTION              | MATERIAL    | FINISH               |
|------|-----------|--------------------------|-------------|----------------------|
| 8    | 2         | I/D CARRIER (SEE MATRIX) | ---         | ---                  |
| 7    | 1         | LABEL YELLOW             | VINYL       | ---                  |
|      | -         | PRINTING FOR CABLES Ixx  | ---         | ---                  |
| 6    | -         | CABLE                    | SEE SHEET 2 | ---                  |
| 5    | -         | OVERMOULDING BLACK       | TPU         | ---                  |
| 4    | 1         | COUPLING NUT M8 FEMALE   | BRASS       | NICKEL               |
| 3    | 1         | INSERT FEMALE BLACK      | TPU         | ---                  |
| 2    | 1         | O-RING RED               | FKM         | ---                  |
| 1    | 3 / 4 / 5 | CONTACT M8 FEMALE        | BRASS       | SELECTIVE Au OVER Ni |

|   |   |  |   |              |
|---|---|--|---|--------------|
| SYMBOLS   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | CURRENT REV DESC:  |   | <b>molex</b> |
|   | DIMENSION UNITS: <b>mm</b><br>SCALE: <b>2:1</b><br>GENERAL TOLERANCES (UNLESS SPECIFIED):<br>ANGULAR TOL: ± °                                 | EC NO: 600840<br>DRWN: FDAFERNER 2018/06/29<br>CHK'D: RSILLER 2018/07/05<br>APPR: RSILLER 2018/07/05 |   |              |
| ▽ = 0 4 PLACES ±<br>▽ = 0 3 PLACES ±<br>▽ = 0 2 PLACES ±<br>▽ = 0 1 PLACE ±<br>▽ = 0 0 PLACES ±<br>■ = 0 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS     | INITIAL REVISION:<br>DRWN: AKONDRACIUK 2017/02/16<br>APPR: MIWASIECZKO 2017/11/16   |  | PRODUCT CUSTOMER DRAWING<br>DOCUMENT NUMBER: <b>1200860594</b><br>DOC TYPE: PSD<br>DOC PART: 000<br>REVISION: <b>A2</b> |              |
| THIRD ANGLE PROJECTION:<br>DRAWING: <b>A3-SIZE</b><br>SERIES: <b>120086</b><br>MATERIAL NUMBER: SEE SHEET 3-4<br>CUSTOMER: GENERAL MARKET<br>SHEET NUMBER: 1 OF 4 |   |  |   |              |

# ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

## OPTIONS

4 0 X 0 0 0 X X X X X X X X

40=Nano-Change  
M8x1  
Double ended

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

Heads style:  
000=Plug Female Straight

Cable type: See Table

Units:  
M=Meter  
C=Centimeter

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

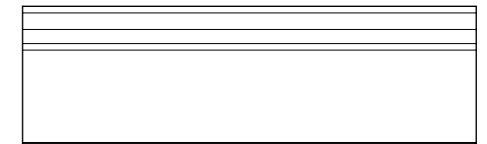
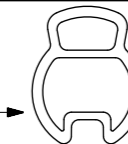
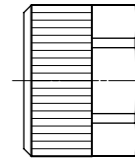
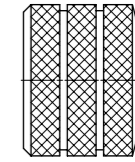
Overmold color:  
Blank (Standard)=Black  
A = Grey / G=Black / Y=Yellow

Coupling Nut:  
Blank (Standard)=Knurled Brass Ni Plated  
9 = Knurled / Hexagonal SW9 Brass Ni Plated

7 = Teflon

H = 2 pcs. of I/D Carrier PVC Transparent  
(Cables lxx & P82 always with 2 pcs. of I/D Carrier)

COUPLING NUT  
FEMALE



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

| CABLE TYPE | NO. OF WIRES | CROSS SECTION       | CABLE JACKET     | UL                    | CSA                      | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN  | SHIELD |
|------------|--------------|---------------------|------------------|-----------------------|--------------------------|--------------------------------|---------------------------------|---|--------|
| E02        | 3 / 4 / 5    | 0.25mm <sup>2</sup> | PVC BLACK        | UL 2464/1729          | C22.2 I/II A/B 80°C/300V | -30°C to +80°C, >10xO.D.       | -10°C to +80°C, >15xO.D.        | -   | -      |
| E18        | 3 / 4        | 0.20mm <sup>2</sup> | PVC YELLOW       | -                     | -                        | -30°C to +70°C                 | -5°C to +70°C                   | -   | -      |
| E51        | 4            | 0.25mm <sup>2</sup> | PVC GREY         | -                     | -                        | -                              | -                               | -   | -      |
| E52        | 3 / 4 / 8    | 0.34mm <sup>2</sup> | PVC GREY         | -                     | -                        | -30°C to +70°C                 | -5°C to +70°C                   | -   | -      |
| E54        | 3            | 0.25mm <sup>2</sup> | PVC GREY         | -                     | -                        | -25°C to +70°C                 | -5°C to +70°C                   | -   | -      |
| H08        | 3 / 4 / 5    | 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 | -      |
| H69        | 4            | 0.20mm <sup>2</sup> | PUR GRAY LS0H    | -                     | -                        | -                              | -                               | -   | -      |
| I02        | 3 / 4        | 0.25mm <sup>2</sup> | PVC CEI GREY     | -                     | -                        | -30°C to +70°C                 | -5°C to +70°C                   | -   | -      |
| P02        | 3 / 4 / 5    | 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.         | -   | -      |
| P18        | 4            | 0.20mm <sup>2</sup> | PUR YELLOW       | -                     | -                        | -                              | -                               | -   | -      |
| P82        | 3            | 0.34mm <sup>2</sup> | PUR IRR ORANGE   | -                     | -                        | -50°C to +105°C, >5xO.D.       | -40°C to +105°C, >7.5xO.D.      | -   | -      |
| K05        | 3 / 4 / 5    | 0.34mm <sup>2</sup> | TPE YELLOW       | UL ITC E195601 or PLC | I/II A/B 90°C/300V       | -                              | -                               | -   | -      |
| L03        | 3            | 0.34mm <sup>2</sup> | Blend PUR ORANGE | -                     | -                        | -30°C to +90°C                 | -5°C to +90°C                   | -   | -      |
| A10        | 3 / 4 / 5    | 0.25mm <sup>2</sup> | PVC YELLOW       | UL 2661               | I/II A/B 105°C/300V      | -                              | -                               | -   | -      |

## CABLE LENGTH TOLERANCES

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

| SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                |
|---------|---|----------------|
| ▽ = 0   | DIMENSION UNITS   | SCALE          |
| ▽ = 0   | mm  | 2:1            |
| ▽ = 0   | CURRENT REV DESC:   |                |
| ▽ = 0   | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                |
| ▽ = 0   | ANGULAR TOL   | ± °            |
| ▽ = 0   | 4 PLACES  | ±              |
| ▽ = 0   | 3 PLACES  | ±              |
| ▽ = 0   | 2 PLACES  | ±              |
| ▽ = 0   | 1 PLACE   | ±              |
| ▽ = 0   | 0 PLACES  | ±              |
| ■ = 0   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                |
| ▽ = 0   | THIRD ANGLE PROJECTION  | DRAWING        |
| ▽ = 0   | DRW: FDAFERNER  | 2018/06/29     |
| ▽ = 0   | CHK'D: RSILLER  | 2018/07/05     |
| ▽ = 0   | APPR: RSILLER   | 2018/07/05     |
| ▽ = 0   | INITIAL REVISION:   |                |
| ▽ = 0   | DRWN: AKONDRACIUK   | 2017/02/16     |
| ▽ = 0   | APPR: MIWASIECZKO   | 2017/11/16     |
| ▽ = 0   | SHEET NUMBER  | 2 OF 4         |
| ▽ = 0   | DOCUMENT NUMBER   | 1200860594     |
| ▽ = 0   | DOC TYPE  | PSD            |
| ▽ = 0   | DOC PART  | 000            |
| ▽ = 0   | REVISION  | A2             |
| ▽ = 0   | MATERIAL NUMBER   | SEE SHEET 3-4  |
| ▽ = 0   | CUSTOMER  | GENERAL MARKET |
| ▽ = 0   | SHEET NUMBER  | 2 OF 4         |












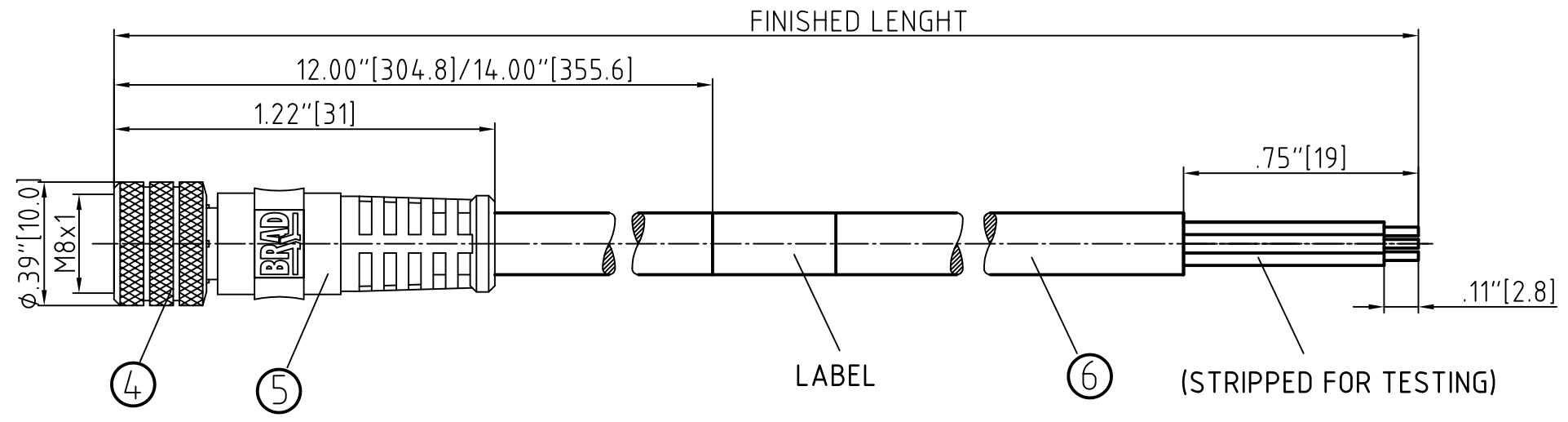
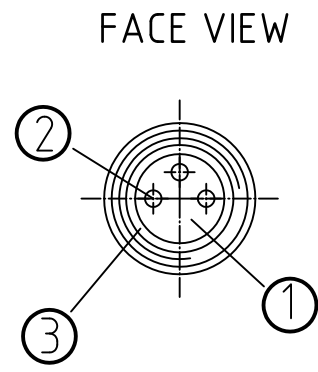
# PART LIST

| Pos. | Part. No   | Engineering No | Cable Length |
|------|------------|----------------|--------------|
| 141  | 1200860340 | 403000K05M050  | 5m           |
| 142  | 1200868431 | 403000K05M150  | 15m          |
| 143  | 1200270642 | 403000L03M005A | 0.5m         |
| 144  | 1200270080 | 403000I02M003  | 0.3m         |
| 145  | 1200270081 | 403000I02M020  | 2m           |
| 146  | 1200270082 | 403000I02M030  | 3m           |
| 147  | 1200270083 | 403000I02M050  | 5m           |
| 148  | 1200270084 | 403000I02M100  | 10m          |
| 149  | 1200270148 | 404000I02M020  | 2m           |
| 150  | 1200270149 | 404000I02M050  | 5m           |
| 151  | 1200270360 | 404000I02M100  | 10m          |
| 152  | 1200860041 | 404000I02M030  | 3m           |
| 153  | 1200868269 | 403000I02M005  | 0.5m         |
| 154  | 1200868270 | 403000I02M006  | 0.6m         |
| 155  | 1200868271 | 403000I02M010  | 1m           |
| 156  | 1200868272 | 403000I02M025  | 2.5m         |
| 157  | 1200868273 | 403000I02M150  | 15m          |
| 158  | 1200868349 | 404000I02M003  | 0.3m         |
| 159  | 1200868350 | 404000I02M050G | 5m           |
| 160  | 1200868445 | 403000I02M030Y | 3m           |
| 161  | 1200868446 | 403000I02M050Y | 5m           |
| 162  | 1200868447 | 403000I02M100Y | 10m          |
| 163  | 1200868455 | 404000I02M020Y | 2m           |
| 164  | 1200868456 | 404000I02M050Y | 5m           |
| 165  | 1200868460 | 404000I02M100Y | 10m          |
| 166  | 1200868507 | 403000I02M020Y | 2m           |
| 167  | 1200868566 | 404000I02M030Y | 3m           |
| 168  | 1200270147 | 404000H69M020  | 2m           |
| 169  | 1200868100 | 404000H69M100  | 10m          |
| 170  | 1200868184 | 404000H69M010  | 1m           |
| 171  | 1200270445 | 404000H69M050  | 5m           |
| 172  | 1200271440 | 403000H69M050  | 5m           |
| 173  | 1200271441 | 403000H69M020  | 2m           |
| 174  | 1200270032 | 403000P82M050  | 5m           |
| 175  | 1200271042 | 404000P82M0207 | 2m           |

| Pos. | Part. No   | Engineering No  | Cable Length |
|------|------------|-----------------|--------------|
| 176  | 1200271180 | 403000P82M020   | 2m           |
| 177  | 1200271305 | 404000P82M050   | 5m           |
| 178  | 1200271450 | 404000P82M0507  | 5m           |
| 179  | 1200868183 | 403000P82M0507  | 5m           |
| 180  | 1200868192 | 403000P82M0207  | 2m           |
| 181  | 1200868212 | 403000P82M005   | 0.5m         |
| 182  | 1200868213 | 404000P82M005   | 0.5m         |
| 183  | 1200868232 | 404000P82M010   | 1m           |
| 184  | 1200868233 | 403000P82M010   | 1m           |
| 185  | 1200868420 | 403000P82M1007  | 10m          |
| 186  | 1200868461 | 404000P82M0207Y | 2m           |
| 187  | 1200868470 | 403000P82M0207Y | 2m           |
| 188  | 1200868481 | 404000P82M010Y  | 1m           |
| 189  | 1200868482 | 403000P82M010Y  | 1m           |
| 190  | 1200868567 | 404000P82M0307Y | 3m           |
| 191  | 1200868602 | 404000P82M050Y  | 5m           |
| 192  | 1200270341 | 404000P18M050   | 5m           |
| 193  | 1200270346 | 404000P18M100   | 10m          |
| 194  | 1200270863 | 404000P18M005   | 0.5m         |
| 195  | 1200271449 | 403000P18M070   | 7m           |
| 196  | 1200860101 | 403000A10M015   | 1.5m         |
| 197  | 1200860102 | 403000A10M020   | 2m           |
| 198  | 1200860107 | 403000A10M050   | 5m           |
| 199  | 1200860111 | 403000A10M100   | 10m          |
| 200  | 1200860112 | 403000A10M150   | 15m          |
| 201  | 1200860144 | 404000A10M020   | 2m           |
| 202  | 1200860145 | 404000A10M030   | 3m           |
| 203  | 1200860147 | 404000A10M050   | 5m           |
| 204  | 1200860155 | 404000A10M100   | 10m          |
| 205  | 1200860191 | 405000A10M020   | 2m           |
| 206  | 1200270140 | 404000E18M050   | 5m           |
| 207  | 1200270581 | 403000E18M020   | 2m           |
| 208  | 1200270606 | 403000E18M100   | 10m          |
| 209  | 1200868017 | 403000E18M050   | 5m           |
| 210  | 1200868028 | 404000E18M020   | 2m           |

| Pos. | Part. No   | Engineering No | Cable Length |
|------|------------|----------------|--------------|
| 211  | 1200868029 | 404000E18M030  | 3m           |
| 212  | 1200270078 | 403000E54M050A | 5m           |
| 213  | 1200868018 | 403000E54M030A | 3m           |
| 214  | 1200270143 | 404000E51M020A | 2m           |
| 215  | 1200270145 | 404000E51M050A | 5m           |
| 216  | 1200868666 | 405000B41M100  | 10m          |
| 217  | 1200868659 | 404000B41M010  | 1m           |
| 218  | 1200868656 | 403000B41M020  | 2m           |
| 219  | 1200868657 | 403000B41M050  | 5m           |
| 220  | 1200868658 | 403000B41M100  | 10m          |
| 221  | 1200860667 | 405000P02M200  | 20m          |
| 222  | 1200868849 | 405000H08M010  | 1m           |
| 223  | 1200868857 | 405000E02M010  | 1m           |
| 224  |            |                |              |
| 225  |            |                |              |
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| 245  |            |                |              |

|  |   |  |  |  |  |  |   |  |
|--|---|--|--|--|--|--|---|--|
| <b>SYMBOLS</b><br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION<br>DIMENSION UNITS: <b>mm</b> SCALE: <b>1:1</b> |  | CURRENT REV DESC:<br>EC NO: 600840<br>DRWN: FDAFERNER    2018/06/29<br>CHK'D: RSILLER    2018/07/05<br>APPR: RSILLER    2018/07/05 |  | <br>M8 SINGLE ENDED FEMALE STRAIGHT |  |   |  |
|  | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>ANGULAR TOL ± °  |  | INITIAL REVISION:<br>DRWN: AKONDRACIUK    2017/02/16<br>APPR: MIWASIECZKO    2017/11/16  |  |  |  | PRODUCT CUSTOMER DRAWING                      |  |
|  | 4 PLACES ±<br>3 PLACES ±<br>2 PLACES ±<br>1 PLACE ±<br>0 PLACES ±   |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |  | THIRD ANGLE PROJECTION   |  | DRAWING: <b>A3-SIZE</b> SERIES: <b>120086</b> |  |
|  | DOCUMENT STATUS: P1    RELEASE DATE: 2018/07/05    07:09:52   |  | MATERIAL NUMBER: <b>1200860594</b> CUSTOMER: <b>GENERAL MARKET</b>   |  | DOC TYPE: <b>PSD</b> DOC PART: <b>000</b> REVISION: <b>A2</b>  |  | SHEET NUMBER: <b>4 OF 4</b>                   |  |



| FEMALE FACE VIEW             |   |   |
|------------------------------|---|---|
| 3-POLE                       | 4-POLE                                  | 5-POLE  |
|                              |   |   |
| 1 BROWN<br>3 BLUE<br>4 BLACK | 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK | 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK<br>5 GREY |

| POLE | MATERIAL NUMBER | ENGINEERING NUMBER | FINISHED LENGHT IN/MM               |
|------|-----------------|--------------------|-------------------------------------|
| 3    | 1200860336      | 403000B09M020      | 6.56' +3.50" -0 [2.0M +88.9 -0]     |
| 3    | 1200860115      | 403000B09M050      | 16.40' +6.50" -0 [5.0M +165.1 -0]   |
| 3    | 1200860016      | 403000B09M100      | 32.81' +12.50" -0 [10.0M +317.5 -0] |
| 4    | 1200860171      | 404000B09M020      | 6.56' +3.50" -0 [2.0M +88.9 -0]     |
| 4    | 1200860173      | 404000B09M050      | 16.40' +6.50" -0 [5.0M +165.1 -0]   |
| 4    | 1200860040      | 404000B09M100      | 32.81' +12.50" -0 [10.0M +317.5 -0] |
| 5    | 1200860196      | 405000B09M020      | 6.56' +3.50" -0 [2.0M +88.9 -0]     |
| 5    | 1200860197      | 405000B09M050      | 16.40' +6.50" -0 [5.0M +165.1 -0]   |

| CONNECTOR SPECIFICATION: |  |
|--------------------------|--|
| VOLTAGE RATING           | 3-4POL:60V/AC 75V/DC<br>5-POL: 30V/AC 36V/DC |
| AMPERAGE RATING          | 3 AMPS                                       |
| PROTECTION               | IP68   |
| OPERATING TEMPERATURE    | -25°C TO 80°C                                |
| UL CERTIFICATIONS        | UL listed, File #E152210                     |
| CSA CERTIFICATIONS       | CSA CERTIFIED, File LR6837                   |

| ITEM | COMPONENT   | MATERIAL           | FINISH           |
|------|---|--------------------|------------------|
| 1    | INSERT  | POLYURETHANE (PUR) | BLACK            |
| 2    | CONTACT SOCKET  | COPPER ALLOY       | GOLD OVER NICKEL |
| 3    | O-RING  | VITON              | RED              |
| 4    | COUPLING NUT  | BRASS              | NICKEL PLATED    |
| 5    | OVERMOLD  | TPE                | YELLOW           |
| 6    | CABLE- 24 AWG,<br>(COPPER STRANDING)<br>3/4/5 CONDUCT. 300V | JACKET: PUR        | YELLOW           |

|  |                                     |                                       |   |                 |       |                                       |                        |  |
|--|-------------------------------------|---------------------------------------|---|-----------------|-------|---------------------------------------|------------------------|--|
| DESCRIPTION<br>EC NO.: WEU2010-0250<br>DRWN: REISSNER<br>CH'KD: FP<br>APPR: NSTAUDIG<br>22.12.09<br>2008/10/02<br>2010/01/26 | QUALITY SYMBOLS<br>▽ = 0<br>▽/C = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |   | DIMENSION STYLE | SCALE | DESIGN UNITS                          | THIRD ANGLE PROJECTION |  |
|  |                                     | mm                                    | INCH  | IN/MM           | 2:1   | METRIC                                |                        |  |
|  |                                     | 4 PLACES ±---                         | ±---  | RE              | DATE  | NC 3/4/5P FE STR<br>24AWG PUR<br>---- |                        |  |
|  |                                     | 3 PLACES ±---                         | ±---  | CHECKED BY      | DATE  | MOLEX INCORPORATED                    |                        |  |
| 2 PLACES ±---  | ±.01                                | FP                                    | 2010/01/20  | APPROVED BY     | DATE  | MATERIAL NO. DOCUMENT NO. SHEET NO.   |                        |  |
| 1 PLACE ±0.3   | ±---                                | NSTAUDIG                              | 2010/01/25  | SEE TABLE       |       | SD-120086-017                         | 1                      |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   |                                     | SIZE                                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |       |                                       |                        |  |
| 1  |                                     | A3                                    |   |                 |       |                                       |                        |  |