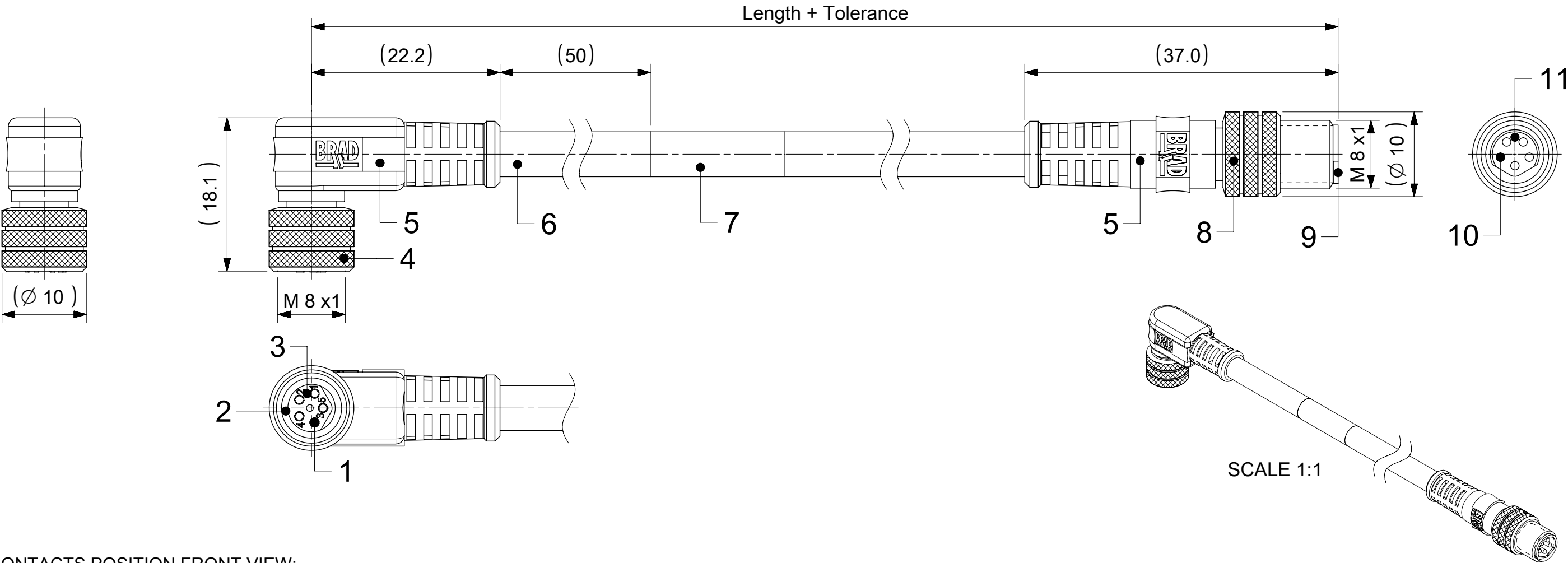


FEMALE PLUG M8 90° ANGLED TO MALE PLUG M8 STRAIGHT



CONTACTS POSITION FRONT VIEW:

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

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  
PACKAGING ACCORDING TO PACKAGING  
SPEC. 1201202000

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

|      |           |                         |             |                      |
|------|-----------|-------------------------|-------------|----------------------|
| 11   | 1         | INSERT MALE BLACK       | TPU         | ---                  |
| 10   | 3 / 4 / 5 | CONTACT M8 MALE         | BRASS       | SELECTIVE Au OVER Ni |
| 9    | 1         | SLEEVE                  | BRASS       | NICKEL               |
| 8    | 1         | COUPLING NUT M8 MALE    | BRASS       | NICKEL               |
| 7    | 1         | LABEL YELLOW            | VINYL       | ---                  |
|      | -         | PRINTING FOR CABLES lxx | ---         | ---                  |
| 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 |
| 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 |                          |                                                                                                      |  |                                        |                                    |        |                  |          |                |  |              |
|                     | DIMENSION UNITS                                                                                                                               |                          | SCALE                                                                                                |  | CURRENT REV DESC: PACKAGING SPEC ADDED |                                    |        | <div>molex</div> |          |                |  |              |
|                     | mm                                                                                                                                            |                          | 2:1                                                                                                  |  |                                        |                                    |        |                  |          |                |  |              |
|                     | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                          | EC NO: 770174<br>DRWN: RSCHEIBER 2023/11/17<br>CHK'D: RSILLER 2023/11/30<br>APPR: RSILLER 2023/11/30 |  |                                        | CSE M8 M8 XP AC BC FE RA MA STR XM |        |                  |          |                |  |              |
| ANGULAR TOL ± 1.0 ° |                                                                                                                                               |                          |                                                                                                      |  |                                        |                                    |        |                  |          |                |  |              |
| 4 PLACES ±          |                                                                                                                                               | PRODUCT CUSTOMER DRAWING |                                                                                                      |  |                                        |                                    |        |                  |          |                |  |              |
| 3 PLACES ±          |                                                                                                                                               |                          |                                                                                                      |  |                                        |                                    |        |                  |          |                |  |              |
| 2 PLACES ± 0.05     |                                                                                                                                               |                          |                                                                                                      |  |                                        |                                    |        |                  |          |                |  |              |
| 1 PLACE ± 0.3       |                                                                                                                                               |                          |                                                                                                      |  |                                        |                                    |        |                  |          |                |  |              |
| DIVISIONAL SYMBOLS  | 0 PLACES ± 0.5                                                                                                                                |                          | INITIAL REVISION:<br>DRWN: JMARSZALEK 2016/10/20<br>APPR: RSILLER 2017/01/11                         |  |                                        | DOCUMENT NUMBER                    |        | DOC TYPE         | DOC PART | REVISION       |  |              |
|                     | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |                          |                                                                                                      |  |                                        | 1200878243                         |        | PSD              | 000      | A5             |  |              |
|                     | THIRD ANGLE PROJECTION                                                                                                                        |                          |                                                                                                      |  |                                        | DRAWING                            | SERIES | MATERIAL NUMBER  |          | CUSTOMER       |  | SHEET NUMBER |
|                     |                                                                                                                                               |                          |                                                                                                      |  |                                        | A3-SIZE                            | 120087 | SEE PART LIST    |          | GENERAL MARKET |  | 1 OF 3       |

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

## OPTIONS

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 4 | X | 0 | 3 | 1 | X | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                                        |
|----------------------------------------|
| 44=Nano-Change<br>M8x1<br>Double ended |
|----------------------------------------|

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

|                                                              |
|--------------------------------------------------------------|
| Heads style:<br>031=Plug Female 90°<br>to Plug Male Straight |
|--------------------------------------------------------------|

Cable type: See Table

Units:  
M=Meter

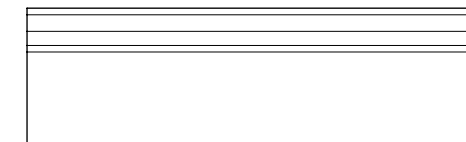
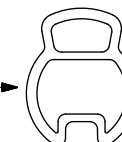
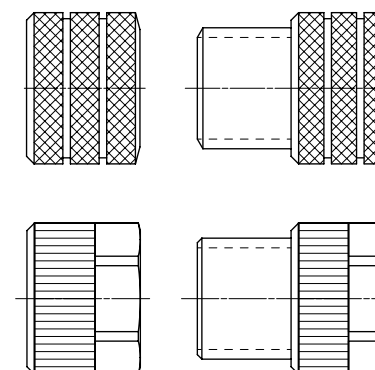
Length  
Examples:  
005=0.5 unit  
010=1 unit  
100=10 unit

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

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

COUPLING NUT  
FEMALE      MALE



## 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                                          | SHIELDING |
|------------|--------------|---------------|-----------------|----------------|--------------------------|--------------------------------|---------------------------------|-----------------------------------------------------|-----------|
| E02        | 3 / 4 / 5    | 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.        | -                                                   | -         |
| H08        | 3 / 4 / 5    | 0.25mm²       | 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 | -         |
| I02        | 3 / 4        | 0.25mm²       | PVC CEI GREY    | -              | -                        | -30°C to +70°C                 | -5°C to +70°C                   | -                                                   | -         |
| P02        | 3 / 4 / 5    | 0.25mm²       | PUR / PVC BLACK | -              | -                        | -30°C to +80°C, >7xO.D.        | -5°C to +80°C, >15xO.D.         | -                                                   | -         |
| P82        | 3            | 0.34mm²       | PUR IRR ORANGE  | -              | -                        | -50°C to +105°C, >5xO.D.       | -40°C to +105°C, >7.5xO.D.      | -                                                   | -         |

## 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 |

|                                                            |                                       |                                                                                                                                               |       |                                                                              |                                                                                                      |         |                        |                                                                |          |          |                |  |
|------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|------------------------|----------------------------------------------------------------|----------|----------|----------------|--|
| FUNCTIONAL SYMBOLS                                         |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                                                                              |                                                                                                      |         |                        |                                                                |          |          |                |  |
| DIVISIONAL SYMBOLS                                         | DIMENSION UNITS                       |                                                                                                                                               | SCALE |                                                                              | CURRENT REV DESC: PACKAGING SPEC ADDED                                                               |         |                        | <div>molex</div> <div>CSE M8 M8 XP AC BC FE RA MA STR XM</div> |          |          |                |  |
|                                                            | mm                                    |                                                                                                                                               | 2:1   |                                                                              |                                                                                                      |         |                        |                                                                |          |          |                |  |
|                                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                                               |       |                                                                              | EC NO: 770174<br>DRWN: RSCHIEBER 2023/11/17<br>CHK'D: RSILLER 2023/11/30<br>APPR: RSILLER 2023/11/30 |         |                        |                                                                |          |          |                |  |
|                                                            | ANGULAR TOL ± 1.0°                    |                                                                                                                                               |       |                                                                              |                                                                                                      |         |                        |                                                                |          |          |                |  |
|                                                            | 4 PLACES                              |                                                                                                                                               | ±     |                                                                              | PRODUCT CUSTOMER DRAWING                                                                             |         |                        |                                                                |          |          |                |  |
| 3 PLACES                                                   |                                       | ±                                                                                                                                             |       |                                                                              |                                                                                                      |         |                        |                                                                |          |          |                |  |
| 2 PLACES                                                   |                                       | ± 0.05                                                                                                                                        |       | DOCUMENT NUMBER<br>1200878243                                                |                                                                                                      |         |                        |                                                                | DOC TYPE | DOC PART | REVISION       |  |
| 1 PLACE                                                    |                                       | ± 0.3                                                                                                                                         |       |                                                                              |                                                                                                      |         |                        |                                                                | PSD      | 000      | A5             |  |
| 0 PLACES                                                   |                                       | ± 0.5                                                                                                                                         |       | INITIAL REVISION:<br>DRWN: JMARSZALEK 2016/10/20<br>APPR: RSILLER 2017/01/11 |                                                                                                      |         | MATERIAL NUMBER        |                                                                | CUSTOMER |          | SHEET NUMBER   |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       |                                                                                                                                               |       |                                                                              |                                                                                                      |         | THIRD ANGLE PROJECTION |                                                                | DRAWING  | SERIES   | GENERAL MARKET |  |
|                                                            |                                       |                                                                                                                                               |       |                                                                              |                                                                                                      | A3-SIZE | 120087                 | SEE PART LIST                                                  |          |          |                |  |

|           |     |  |  |   |            |  |  |   |                 |  |  |   |              |  |  |   |     |  |  |   |            |  |  |   |                 |  |  |   |              |  |  |   |     |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
|-----------|-----|--|--|---|------------|--|--|---|-----------------|--|--|---|--------------|--|--|---|-----|--|--|---|------------|--|--|---|-----------------|--|--|---|--------------|--|--|---|-----|--|--|---|----------|--|--|--|-----------------|--|--|--|--------------|--|--|--|
| 10        |     |  |  | 9 |            |  |  | 8 |                 |  |  | 7 |              |  |  | 6 |     |  |  | 5 |            |  |  | 4 |                 |  |  | 3 |              |  |  | 2 |     |  |  | 1 |          |  |  |  |                 |  |  |  |              |  |  |  |
| PART LIST |     |  |  |   |            |  |  |   |                 |  |  |   |              |  |  |   |     |  |  |   |            |  |  |   |                 |  |  |   |              |  |  |   |     |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
| F         | No. |  |  |   | Molex PN   |  |  |   | Engineering No. |  |  |   | Cable Length |  |  |   | No. |  |  |   | Molex PN   |  |  |   | Engineering No. |  |  |   | Cable Length |  |  |   | No. |  |  |   | Molex PN |  |  |  | Engineering No. |  |  |  | Cable Length |  |  |  |
|           | 1   |  |  |   | 1200280016 |  |  |   | 443031E02M010   |  |  |   | 1m           |  |  |   | 36  |  |  |   | 1200878367 |  |  |   | 444031E02M030   |  |  |   | 3m           |  |  |   | 71  |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
|           | 2   |  |  |   | 1200281220 |  |  |   | 443031P82M003   |  |  |   | 0.3m         |  |  |   | 37  |  |  |   | 1200878368 |  |  |   | 444031E02M050   |  |  |   | 5m           |  |  |   | 72  |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
|           | 3   |  |  |   | 1200281221 |  |  |   | 443031P82M006   |  |  |   | 0.6m         |  |  |   | 38  |  |  |   | 1200878369 |  |  |   | 444031E02M100   |  |  |   | 10m          |  |  |   | 73  |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
|           | 4   |  |  |   | 1200281283 |  |  |   | 443031E02M005   |  |  |   | 0.5m         |  |  |   | 39  |  |  |   | 1200878370 |  |  |   | 444031P02M003   |  |  |   | 0.3m         |  |  |   | 74  |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
| E         | 5   |  |  |   | 1200875016 |  |  |   | 443031E02M006   |  |  |   | 0.6m         |  |  |   | 40  |  |  |   | 1200878371 |  |  |   | 444031P02M006   |  |  |   | 0.6m         |  |  |   | 75  |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |
|           | 6   |  |  |   | 1200878128 |  |  |   | 44              |  |  |   |              |  |  |   |     |  |  |   |            |  |  |   |                 |  |  |   |              |  |  |   |     |  |  |   |          |  |  |  |                 |  |  |  |              |  |  |  |

| No. | Molex PN   | Engineering No. | Cable Length |
|-----|------------|-----------------|--------------|
| 36  | 1200878367 | 444031E02M030   | 3m           |
| 37  | 1200878368 | 444031E02M050   | 5m           |
| 38  | 1200878369 | 444031E02M100   | 10m          |
| 39  | 1200878370 | 444031P02M003   | 0.3m         |
| 40  | 1200878371 | 444031P02M006   | 0.6m         |
| 41  | 1200878372 | 444031P02M010   | 1m           |
| 42  | 1200878373 | 444031P02M030   | 3m           |
| 43  | 1200878499 | 443031H08M010   | 1m           |
| 44  | 1200878542 | 443031E02M015Y  | 1.5m         |
| 45  | 1200878554 | 444031H08M006   | 0.6m         |
| 46  | 1200878555 | 444031H08M020   | 2m           |
| 47  | 1200878556 | 444031H08M050   | 5m           |
| 48  | 1200878557 | 443031H08M006   | 0.6m         |
| 49  | 1200878595 | 443031P02M010H  | 1m           |
| 50  | 1200878625 | 443031P82M050   | 5m           |
| 51  | 1200878637 | 443031E02M002   | 0.2m         |
| 52  | 1200878638 | 443031E02M025   | 2.5m         |
| 53  | 1200878639 | 443031E02M065   | 6.5m         |
| 54  | 1200878659 | 443031E02M010H  | 1m           |
| 55  | 1200878660 | 443031E02M005H  | 0.5m         |
| 56  | 1200878664 | 443031E02M020H  | 2m           |
| 57  | 1200878667 | 444031E02M003H  | 0.3m         |
| 58  | 1200878672 | 443031E02M002H  | 0.2m         |
| 59  | 1200878673 | 443031E02M025H  | 2.5m         |
| 60  | 1200878674 | 443031E02M065H  | 6.5m         |
| 61  | 1200878690 | 443031E02M015H  | 1.5m         |
| 62  | 1200878942 | 445031H08M006   | 0.6m         |
| 63  | 1200878943 | 445031H08M010   | 1m           |
| 64  | 1200878944 | 445031H08M020   | 2m           |
| 65  | 1200878945 | 445031H08M050   | 5m           |
| 66  | 1200878948 | 445031E02M010   | 1m           |
| 67  | 1200878949 | 445031E02M020   | 2m           |
| 68  | 1200280400 | 444031P02M020   | 2m           |
| 69  | 1200878979 | 444031H08M030   | 3m           |
| 70  | 1200878981 | 445031H08M030   | 3m           |

| No. | Molex PN | Engineering No. | Cable Length |
|-----|----------|-----------------|--------------|
| 106 |          |                 |              |
| 107 |          |                 |              |
| 108 |          |                 |              |
| 109 |          |                 |              |
| 110 |          |                 |              |
| 111 |          |                 |              |
| 112 |          |                 |              |
| 113 |          |                 |              |
| 114 |          |                 |              |
| 115 |          |                 |              |
| 116 |          |                 |              |
| 117 |          |                 |              |
| 118 |          |                 |              |
| 119 |          |                 |              |
| 120 |          |                 |              |
| 121 |          |                 |              |
| 122 |          |                 |              |
| 123 |          |                 |              |
| 124 |          |                 |              |
| 125 |          |                 |              |
| 126 |          |                 |              |
| 127 |          |                 |              |
| 128 |          |                 |              |
| 129 |          |                 |              |
| 130 |          |                 |              |
| 131 |          |                 |              |
| 132 |          |                 |              |
| 133 |          |                 |              |
| 134 |          |                 |              |
| 135 |          |                 |              |
| 136 |          |                 |              |
| 137 |          |                 |              |
| 138 |          |                 |              |
| 139 |          |                 |              |
| 140 |          |                 |              |

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