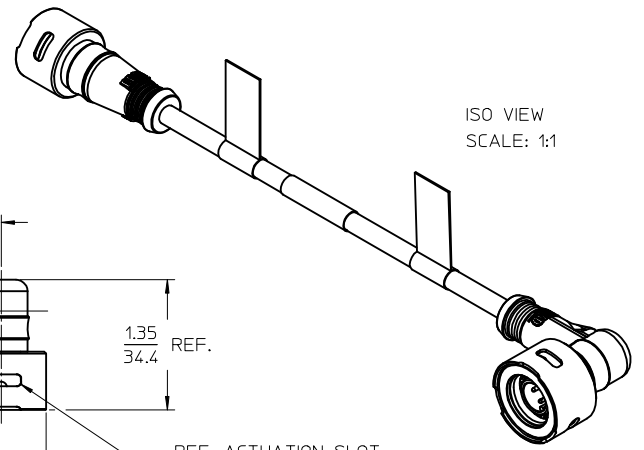


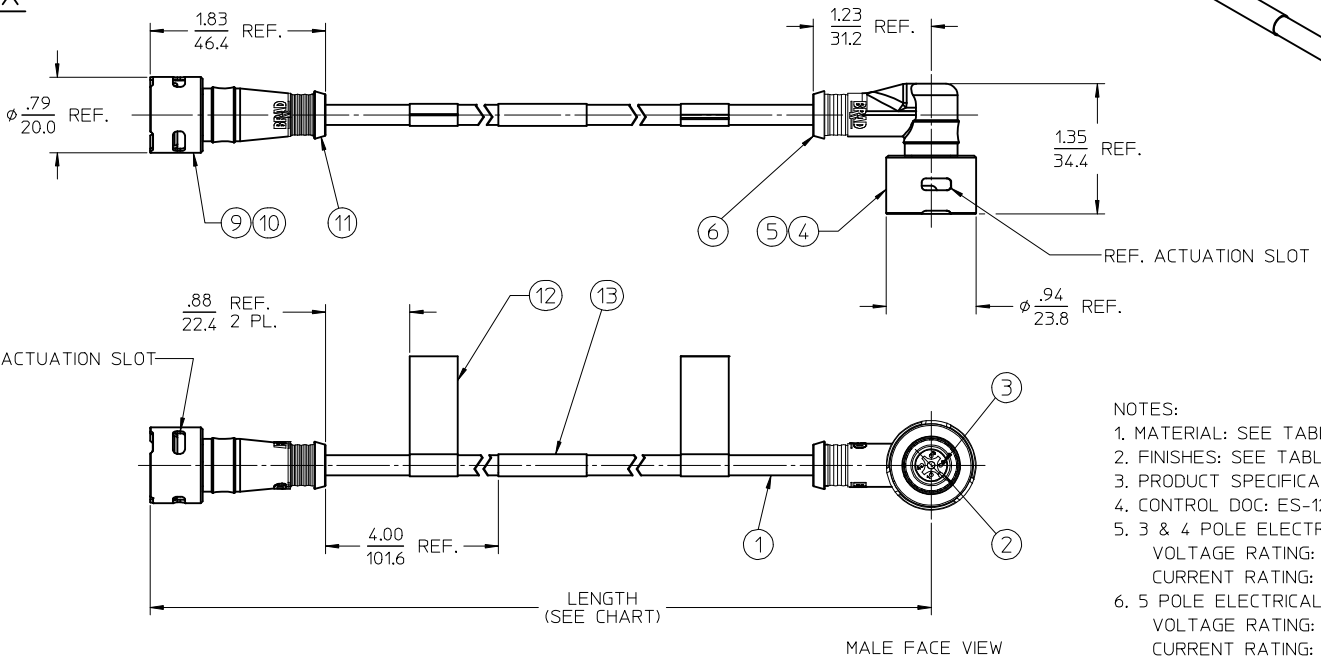
| MATERIAL NO. | ENGINEERING NO. | LENGTH    | POLES |
|--------------|-----------------|-----------|-------|
| 1206132003   | LWLW4032K03M010 | 39.4 (1M) | 4     |
| 1206132004   | LWLW5032K03M010 | 39.4 (1M) | 5     |

NOTICE: THIS PART IS CSA AND FACTORY MUTUAL APPROVED  
NO CHANGES CAN BE MADE TO THE ASSEMBLY, COMPONENTS  
OR SUPPLIER WITHOUT PRIOR APPROVAL FROM CSA AND  
FACTORY MUTUAL.



Ⓑ **LWLWX032K03MXXX**

DOUBLE END  
POLE QTY.  
HEAD STYLE (S)  
CABLE TYPE  
FINISHED LENGTH  
REF. XXX = METERS  
EXAMPLE 010- 1M



- NOTES:
1. MATERIAL: SEE TABLE
  2. FINISHES: SEE TABLE
  3. PRODUCT SPECIFICATIONS: PS-120614-001
  4. CONTROL DOC: ES-120614-001
  - 3 & 4 POLE ELECTRICAL SPECIFICATIONS:  
VOLTAGE RATING: 125V  
CURRENT RATING: 4 AMPS
  - 5 POLE ELECTRICAL SPECIFICATIONS:  
VOLTAGE RATING: 32V  
CURRENT RATING: 4 AMPS

| FEMALE FACE VIEW   |   |   | MALE FACE VIEW               |   |   |
|--|---|---|------------------------------|---|---|
| 3 POLE   | 4 POLE  | 5 POLE  | 3 POLE                       | 4 POLE                                  | 5 POLE  |
|  |   |   |                              |   |   |
| 1 BROWN<br>2 NOT USED<br>3 BLUE<br>4 BLACK<br>5 NOT USED | 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK<br>5 NOT USED | 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK<br>5 GRAY | 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 GRAY |

| ITEM | QTY. | DESCRIPTION             | MATERIAL     | FINISH       |
|------|------|-------------------------|--------------|--------------|
| 13   | 1    | WRAP LABEL              | PLASTIC FILM | BLACK/YELLOW |
| 12   | 2    | FLAG LABEL (WARNING)    | POLYESTER    | BLACK/ORANGE |
| 11   | 1    | OVERMOLD, FEMALE        | TPE          | YELLOW       |
| 10   | 1    | OUTER SLEEVE, FEMALE    | ST. STEEL    | PASSIVATED   |
| 9    | 1    | INNER SLEEVE, FEMALE    | ST. STEEL    | PASSIVATED   |
| 8    | XX   | CONTACT SOCKET          | Cu ALLOY     | GOLD PLATED  |
| 7    | 1    | INSERT, FEMALE          | PUR          | BLACK        |
| 6    | 1    | OVERMOLD, MALE          | TPE          | YELLOW       |
| 5    | 1    | OUTER SLEEVE, MALE      | ST. STEEL    | PASSIVATED   |
| 4    | 1    | INNER SLEEVE, MALE      | ST. STEEL    | PASSIVATED   |
| 3    | XX   | CONTACT PIN             | Cu ALLOY     | GOLD PLATED  |
| 2    | 1    | INSERT, MALE            | PUR          | BLACK        |
| 1    | 1    | CABLE, #18 AWG ITC/PLTC | TPE          | YELLOW       |

| <b>ADDED P/N LEGEND</b><br>EC NO: IPG2014-0138<br>DRAWN BY: DRWINRSTONE 2013/07/24<br>CHKD BY: CHKDB WOODMAN 2013/08/01<br>APPR: BWOODMAN 2013/12/30 | <b>QUALITY SYMBOLS</b><br>= 0<br>= 0  | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b><br><table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES ±</td> <td>---</td> <td>±---</td> </tr> <tr> <td>3 PLACES ±</td> <td>---</td> <td>±---</td> </tr> <tr> <td>2 PLACES ±</td> <td>---</td> <td>±.01</td> </tr> <tr> <td>1 PLACE ±</td> <td>0.3</td> <td>±---</td> </tr> </table> ANGULAR ± 2° |                           | mm | INCH                             | 4 PLACES ±                           | ---   | ±--- | 3 PLACES ± | --- | ±--- | 2 PLACES ± | --- | ±.01 | 1 PLACE ± | 0.3 | ±--- | DIMENSION STYLE<br><b>IN/MM</b> | SCALE<br><b>1:1</b> | DESIGN UNITS<br><b>INCH</b> | THIRD ANGLE PROJECTION |
|--|---|--|---------------------------|----|----------------------------------|--------------------------------------|---|------|------------|-----|------|------------|-----|------|-----------|-----|------|---------------------------------|---------------------|-----------------------------|------------------------|
|  |   |  |                           | mm | INCH                             |                                      |   |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |
| 4 PLACES ±   | ---   | ±---   |                           |    |                                  |                                      |   |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |
| 3 PLACES ±   | ---   | ±---   |                           |    |                                  |                                      |   |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |
| 2 PLACES ±   | ---   | ±.01   |                           |    |                                  |                                      |   |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |
| 1 PLACE ±  | 0.3   | ±---   |                           |    |                                  |                                      |   |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |
| DRAWN BY: RSTONE DATE: 2011/11/23<br>CHECKED BY: L. HARTMANN DATE: 2012/01/27<br>APPROVED BY: JFMURPHY DATE: 2012/04/18                              | <b>ULTRA-LOCK ZONE 2</b><br><b>MALE 90 TO FEM STRAIGHT</b><br><b>K03, 18 AWG, TPE</b> |  | <b>MOLEX INCORPORATED</b> |    | MATERIAL NO.<br><b>SEE CHART</b> | DOCUMENT NO.<br><b>SD-120613-006</b> | SHEET NO.<br><b>1 OF 1</b>  |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |   |  |                           |    |                                  |                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |      |            |     |      |            |     |      |           |     |      |                                 |                     |                             |                        |

| DRAWING NO.    | DESCRIPTION   | FINISHED GOOD REV. LEVEL |
|----------------|---|--------------------------|
| LWR000A18      | MIC U-LOCK ZONE 2 RECEPT ASSY, FEM. 1/2 NPT, 22 AWG | C                        |
| LWR006A18      | MIC U-LOCK ZONE 2 RECEPT ASSY, MALE 1/2 NPT, 22 AWG | B                        |
| LWRA00A18      | MIC U-LOCK ZONE 2 RECEPT ASSY, FEM. 1/4 NPT, 22 AWG | C                        |
| LWRA06A18      | MIC U-LOCK ZONE 2 RECEPT ASSY, MALE 1/4 NPT, 22 AWG | B                        |
| LWR000A16      | MIC U-LOCK ZONE 2 RECEPT ASSY, FEM. 1/2 NPT, 18 AWG | B                        |
| LWR006A16      | MIC U-LOCK ZONE 2 RECEPT ASSY, MALE 1/2 NPT, 18 AWG | B                        |
| LWXXXXXC02XXXX | U-LOCK ZONE 2 C02 CORD ASSY, 18AWG SJ00W, DC COLOR  | C                        |
| LWXXXXXK03XXXX | U-LOCK ZONE 2 K03 CORD ASSY, 18AWG TPE, DC COLOR    | C                        |
| LWXXXXXK05XXXX | U-LOCK ZONE 2 K05 CORD ASSY, 22AWG TPE, DC COLOR    | C                        |
| SD-120614-999  | CONTROL DOC FOR ULTRA-LOCK ZONE 2                   | D                        |

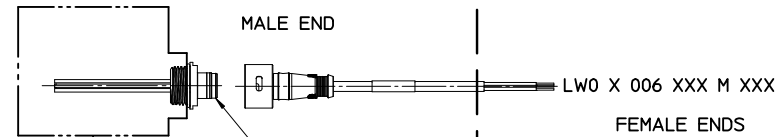
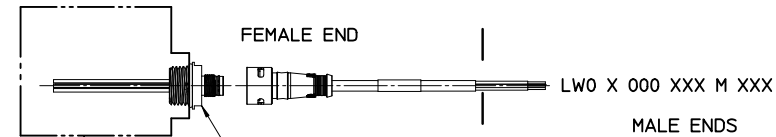
|   |                               |                                       |             |   |                   |              |   |                        |  |  |
|---|-------------------------------|---------------------------------------|-------------|---|-------------------|--------------|---|------------------------|--|--|
| PRELIMINARY<br>EC NO: IPG2016-0500<br>DRAWN: RSTONE 2016/03/07<br>CHKD: WAI LEUNG 2016/05/20<br>APPR: JFMURPHY 2016/05/20 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |             | DIMENSION STYLE<br>IN/MM  |                   | SCALE<br>1:1 | DESIGN UNITS<br>INCH                            | THIRD ANGLE PROJECTION |  |  |
|   |                               | 4 PLACES                              | ± ---       | ± ---   | DRAWN BY          | DATE         | TITLE<br>SCHEDULE DRAWING FOR ULTRA LOCK ZONE 2 |                        |  |  |
|   |                               | 3 PLACES                              | ± ---       | ± ---   | RSTONE            | 2016/03/07   |   |                        |  |  |
|   |                               | 2 PLACES                              | ± ---       | ± ---   | CHECKED BY        | DATE         | molex   |                        |  |  |
|   |                               | 1 PLACE                               | ± ---       | ± ---   | WAI LEUNG         |              |   |                        |  |  |
| 0 PLACE   | ± ---                         | ± ---                                 | APPROVED BY | DATE  | MATERIAL NO.<br>- |              | DOCUMENT NO.<br>SD-120614-998                   | SHEET NO.<br>1 OF 1    |  |  |
| ANGULAR ± ---°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS   |                               |                                       | SIZE<br>B   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                   |              |   |                        |  |  |

CLASS 1, DIVISION 2, GROUP A, B, C, OR D  
HAZARDOUS LOCATION

NON-HAZARDOUS LOCATION

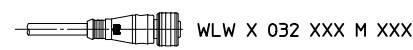
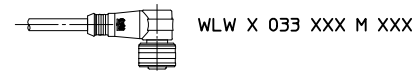
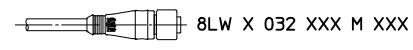
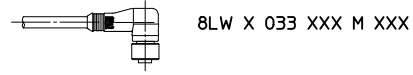
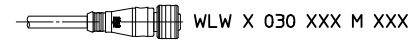
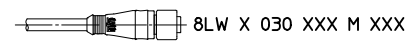
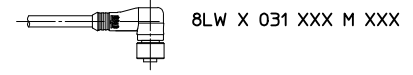
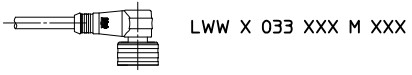
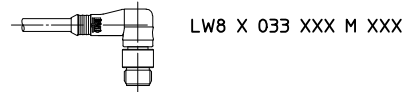
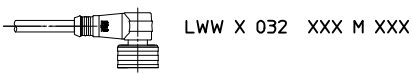
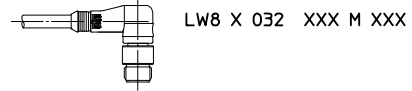
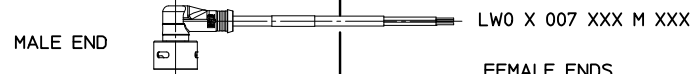
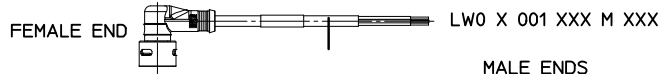
CLASS 1, DIVISION 2, GROUP A, B, C, OR D  
HAZARDOUS LOCATION

NON-HAZARDOUS LOCATION



LWR X 006 A18 CXXX  
(MALE 1/2" NPT)  
LWR X A06 A18 CXXX  
(MALE 1/4" NPT)

LWR X 000 A18 CXXX  
(FEMALE 1/2" NPT)  
LWR X A00 A18 CXXX  
(FEMALE 1/4" NPT)



- NOTES:
1. THE INSTALLATION MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), ANSI/NFPA 70. SPECIFIC REQUIREMENTS FOR THE INSTALLATION OF ITC RATED CABLE MAY BE FOUND IN ARTICLE 501.4(B)(1)(5) AND ARTICLE 727.4
  2. THE MOLDED CONSTRUCTION OF THE CORDSET AND GAS/VAPORTIGHT CONTINUOUS SHEATH OF THE CABLE MEET THE REQUIREMENTS OF THE NEC, ARTICLE 501-5(E)(2) FOR CABLE SEALS IN CLASS 1, DIVISION 2
  3. FIELD DEVICE APPROVAL FOR CLASS 1, DIV. 2 OR CLASS 1, ZONE2 INSTALLATIONS
  4. ATEX cert no: ATEX FM15ATEX0048X IECEx FMG 15.0012X

NOTICE: THIS PART IS CSA AND FACTORY MUTUAL APPROVED  
NO CHANGES CAN BE MADE TO THE ASSEMBLY, COMPONENTS  
OR SUPPLIER WITHOUT PRIOR APPROVAL FROM CSA AND  
FACTORY MUTUAL.

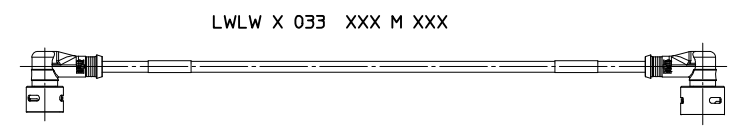
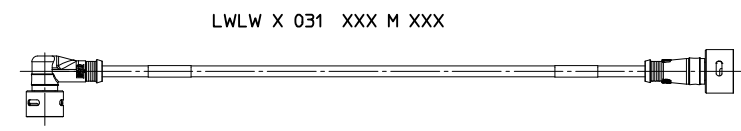
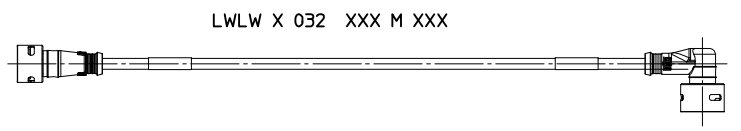
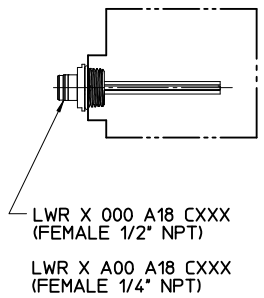
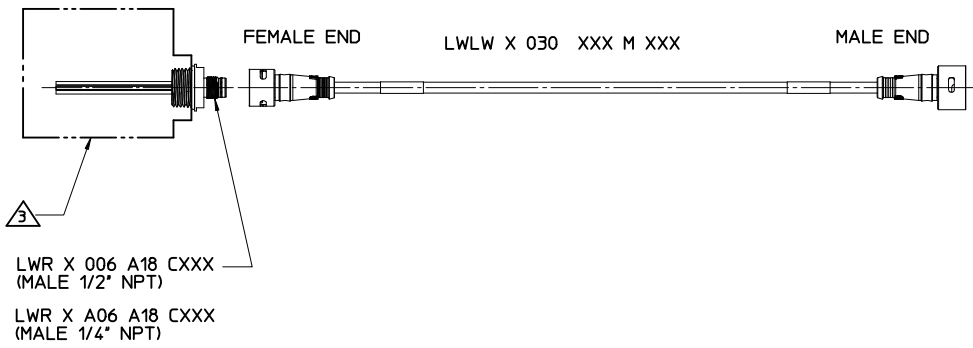
THIS DRAWING SUPERSEDES ES-120614-001 REV-B

|  |                         |                                       |     |                 |             |            |                                   |                        |   |   |  |
|--|-------------------------|---------------------------------------|-----|-----------------|-------------|------------|-----------------------------------|------------------------|---|---|--|
| ADDED NOTE 4<br>EC NO: IPG2016-0500<br>DRAWNRSTONE 2015/10/16<br>CHKD:WAI LEUNG 2016/05/20<br>APPR:JFMURPHY 2016/05/20 | QUALITY SYMBOLS<br><br> | GENERAL TOLERANCES (UNLESS SPECIFIED) |     | DIMENSION STYLE |             | SCALE      | DESIGN UNITS                      | THIRD ANGLE PROJECTION |   |   |  |
|  |                         |                                       |     | IN/MM           |             | 1:1        | INCH                              |                        |   |   |  |
|  |                         | 4 PLACES                              | ±   | ---             | ±           | ---        | DRAWN BY                          | DATE                   | TITLE<br><b>CONTROL DOC FOR ULTRA-LOCK ZONE 2</b> |   |  |
|  |                         | 3 PLACES                              | ±   | ---             | ±           | ---        | RSTONE                            | 2012/05/18             |   |   |  |
| 2 PLACES   | ±                       | ---                                   | ±   | ---             | CHECKED BY  | DATE       | MATERIAL NO.<br><b>1206149999</b> |                        |   |   |  |
| 1 PLACE  | ±                       | ---                                   | ±   | ---             | K JOZWIK    | 2012/05/22 |                                   |                        |   | DOCUMENT NO.<br><b>SD-120614-999</b>  |  |
| ANGULAR  |                         | ±                                     | --- | °               | APPROVED BY | DATE       | SHEET NO.<br><b>1 OF 3</b>        |                        |   |   |  |
|  |                         | ±                                     | --- | °               | JFMURPHY    | 2012/08/27 |                                   |                        |   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |                         | SIZE                                  |     |                 |             |            |                                   |                        |   |   |  |
|  |                         | C                                     |     |                 |             |            |                                   |                        |   |   |  |

REF. SEE SHEET 3 FOR CONFIGURATION INFORMATION

CLASS 1, DIVISION 2, GROUP A, B, C, OR D  
HAZARDOUS LOCATION

HAZARDOUS LOCATION



- REF:
1. SEE SHEET 1 FOR NOTES
  2. SEE SHEET 3 FOR CONFIGURATION INFORMATION

NOTICE: THIS PART IS CSA AND FACTORY MUTUAL APPROVED  
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OR SUPPLIER WITHOUT PRIOR APPROVAL FROM CSA AND  
FACTORY MUTUAL.

|   |                               |   |       |                               |                    |                                      |                        |  |
|---|-------------------------------|---|-------|-------------------------------|--------------------|--------------------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: JFG2016-0500<br>DRAWN BY: DRWINRSTONE 2015/10/16<br>CHKD BY: WAI LEUNG 2016/05/20<br>APPR: JF MURPHY 2016/05/20 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)   |       | DIMENSION STYLE<br>IN/MM      | SCALE<br>1:1       | DESIGN UNITS<br>INCH                 | THIRD ANGLE PROJECTION |  |
|   |                               | mm  | INCH  | DRAWN BY<br>RSTONE            | DATE<br>2012/05/18 | CONTROL DOC FOR<br>ULTRA-LOCK ZONE 2 |                        |  |
|   |                               | 4 PLACES ± ---  | ± --- | CHECKED BY<br>K JOZWIK        | DATE<br>2012/05/22 |                                      |                        |  |
|   |                               | 3 PLACES ± ---  | ± --- | APPROVED BY<br>JFMURPHY       | DATE<br>2012/08/27 | MOLEX INCORPORATED                   |                        |  |
| 2 PLACES ± ---  | ± ---                         | MATERIAL NO.<br>1206149999  |       | DOCUMENT NO.<br>SD-120614-999 |                    | SHEET NO.<br>2 OF 3                  |                        |  |
| 1 PLACE ± ---   | ± ---                         | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |       |                               |                    |                                      |                        |  |
| ANGULAR ± ---°  |                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                               |                    |                                      |                        |  |

M12/MICROCHANGE ULTRA-LOCK CORD CONNECTORS AND CORD SETS

LWO 3 000 C02 M 020 8  
 I II III IV V VI VII

I: CONNECTOR TYPE

LWO= ULTRA-LOCK ZONE 2 MALE OR FEMALE SINGLE END CORDSET  
 LWW= ULTRA-LOCK ZONE 2 FEMALE TO STANDARD ULTRA-LOCK MALE DOUBLE ENDED CORDSET  
 WLW= ULTRA-LOCK ZONE 2 MALE TO STANDARD ULTRA-LOCK FEMALE DOUBLE ENDED CORDSET  
 LW8= ULTRA-LOCK ZONE 2 FEMALE TO STANDARD M12 MALE DOUBLE ENDED CORDSET  
 8LW= ULTRA-LOCK ZONE 2 MALE TO STANDARD M12 FEMALE DOUBLE ENDED CORDSET  
 LWLW= ULTRA-LOCK ZONE 2 FEMALE TO ULTRA-LOCK ZONE 2 MALE DOUBLE ENDED CORDSET

II: NUMBER OF POLES: 3= 3 PIN, 4= 4 PIN, 5 = 5 PIN

III: CONFIGURATION

SINGLE ENDED:  
 000= STRAIGHT FEMALE CONNECTOR  
 001= FEMALE 90°  
 006= STRAIGHT MALE, EXTERNAL THREAD  
 007= MALE 90°

DOUBLE ENDED:

030= STRAIGHT FEMALE CONNECTOR TO STRAIGHT MALE CONNECTOR  
 031= FEMALE 90° TO MALE STRAIGHT  
 032= FEMALE STRAIGHT TO MALE 90°  
 033= FEMALE 90° TO MALE 90°

IV: CABLE TYPE

C02= SJ00W YELLOW, 18 AWG, DC CODE  
 K03= PLTC/ITC, 18 AWG, TPE JACKET  
 K05= PLTC/ITC, 22 AWG, TPE JACKET

V: UNIT OF MEASURE

F= FEET  
 M= METERS

VI: CABLE LENGTH (MAY BE ANY 3 DIGIT NUMBER FROM 001-100)

1ST DIGIT= 10 X LENGTH  
 2ND DIGIT= 1 X LENGTH  
 3RD DIGIT= .1 X LENGTH

VII: COUPLING NUT MATERIAL

ULTRA-LOCK ZONE 2 END(S) ARE STAINLESS STEEL

M12 OR ULTRA-LOCK:

NONE = STANDARD MATERIAL (NICKEL PLATED BRASS)  
 8= STAINLESS STEEL

**NOTICE: THIS PART IS CSA AND FACTORY MUTUAL APPROVED  
 NO CHANGES CAN BE MADE TO THE ASSEMBLY, COMPONENTS  
 OR SUPPLIER WITHOUT PRIOR APPROVAL FROM CSA AND  
 FACTORY MUTUAL.**

M12/MICROCHANGE ULTRA-LOCK OUTLETS

LWR 3 A00 A18 M 020 8  
 I II III IV V VI VII

I: CONNECTOR TYPE

LWR= LOCKING INLETS AND OUTLETS

II: NUMBER OF POLES 3=3 PIN, 4= 4 PIN, & 5= 5 PIN

III: CONFIGURATION

SINGLE ENDED:  
 A00= FEMALE STRAIGHT (INT.THEAD) 1/4-18 NPT  
 A06= MALE STRAIGHT (EXT.THEAD) 1/4-18 NPT  
 000= FEMALE STRAIGHT (INT.THEAD) 1/2-14 NPT  
 006= MALE STRAIGHT (EXT.THEAD) 1/2-14 NPT

IV: WIRE TYPE

A18= 22 AWG, PVC, DC COLOR CODE, UL TYPE 1061  
 A16= 18 AWG, PVC, DC COLOR CODE, UL TYPE 1569  
 000= PCB PINS  
 000= PCB PINS

V: UNIT OF MEASURE

A= INCHES  
 F= FEET  
 C= CENTIMETERS  
 M= METERS

VI: WIRE LENGTH (MAY BE ANY 3 DIGIT NUMBER FROM 001-100)

1ST DIGIT= 10 X LENGTH  
 2ND DIGIT= 1 X LENGTH  
 3RD DIGIT= .1 X LENGTH

VII: SHELL MATERIAL

M12 OR ULTRA-LOCK:  
 NONE = STANDARD MATERIAL (COPPER ZINC ALLOY)  
 3= NICKEL PLATED BRASS  
 8= STAINLESS STEEL

|  |                      |   |                                 |       |              |  |
|--|----------------------|---|---------------------------------|-------|--------------|--|
| SEE SHEET 1<br>EC NO: IPG2016-0500<br>DR: DR: W/HRSTONE 2015/10/16<br>CHK: CHK: WAI LEUNG 2016/05/20<br>APPR: APPR: JF MURPHY 2016/05/20 | QUALITY SYMBOLS      | GENERAL TOLERANCES (UNLESS SPECIFIED)   | DIMENSION STYLE                 | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION   |
|  | ▼=0<br>▽=0           | mm  | IN/MM                           | 1:1   | INCH         | CONTROL DOC FOR<br>ULTRA-LOCK ZONE 2<br><br>MOLEX INCORPORATED |
|  |                      | 4 PLACES ±--- ±---  | DRAWN BY DATE                   | TITLE |              |  |
|  |                      | 3 PLACES ±--- ±---  | RSTONE 2012/05/18               |       |              |  |
| 2 PLACES ±--- ±---   | CHECKED BY DATE      | MATERIAL NO. DOCUMENT NO. SHEET NO.   |                                 |       |              |  |
| 1 PLACE ±--- ±---  | K JOZWIK 2012/05/22  |   | 1206149999 SD-120614-999 3 OF 3 |       |              |  |
| ANGULAR ±---°  | APPROVED BY DATE     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                 |       |              |  |
|  | JF MURPHY 2012/08/27 |   |                                 |       |              |  |
|  |                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                                 |       |              |  |