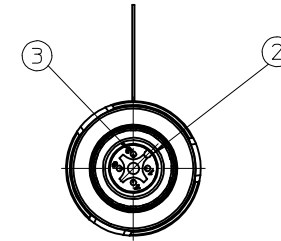
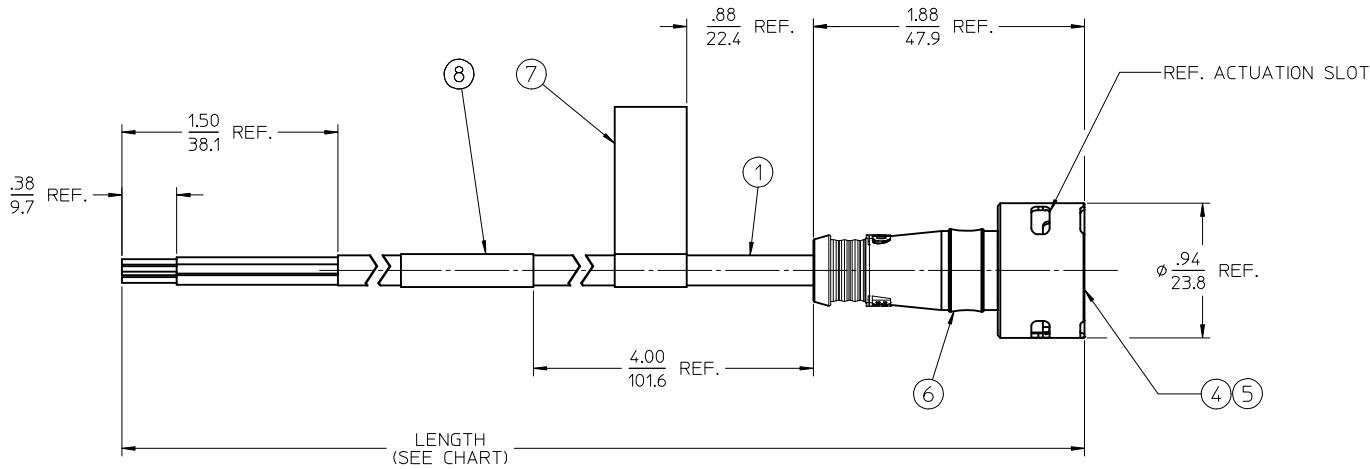
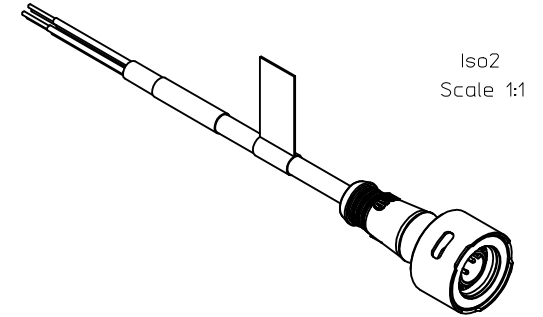


| MATERIAL NO. | ENGINEERING NO. | LENGTH    | POLES |
|--------------|-----------------|-----------|-------|
| 1206140003   | LW03006K05M020  | 78.7 (2M) | 3     |
| 1206140004   | LW05006K05M020  | 78.7 (2M) | 5     |
| 1206140006   | LW04006K05M020  | 78.7 (2M) | 4     |

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.



- NOTES:
1. MATERIAL: SEE TABLE
  2. FINISHES: SEE TABLE
  3. PRODUCT SPECIFICATIONS: PS-120614-001
  4. CONTROL DOC: ES-120614-001
  5. 3 & 4 POLE ELECTRICAL SPECIFICATIONS:  
VOLTAGE RATING: 125V  
CURRENT RATING: 4 AMPS
  6. 5 POLE ELECTRICAL SPECIFICATIONS:  
VOLTAGE RATING: 32V  
CURRENT RATING: 4 AMPS

② LW0X006K05MXXX

SINGLE END  
POLE QTY.  
HEAD STYLE  
CABLE TYPE  
FINISHED LENGTH  
REF. XXX = METERS  
EXAMPLE 010= 1M

MALE 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 GRAY |

| 8    | 1    | WRAP LABEL              | PLASTIC FILM | BLACK/YELLOW |
|------|------|-------------------------|--------------|--------------|
| 7    | 1    | FLAG LABEL (WARNING)    | POLYESTER    | BLACK/ORANGE |
| 6    | 1    | OVERMOLD                | TPE          | YELLOW       |
| 5    | 1    | OUTER SLEEVE            | ST. STEEL    | PASSIVATED   |
| 4    | 1    | INNER SLEEVE            | ST. STEEL    | PASSIVATED   |
| 3    | XX   | CONTACT                 | Cu ALLOY     | GOLD PLATED  |
| 2    | 1    | INSERT                  | PUR          | BLACK        |
| 1    | 1    | CABLE, #22 AWG ITC/PLTC | TPE          | YELLOW       |
| ITEM | QTY. | DESCRIPTION             | MATERIAL     | FINISH       |

| ADDED P/N LEGEND         | QUALITY SYMBOLS |
|--------------------------|-----------------|
| EC NO: IPG2014-0138      | ▽=0             |
| DRWNR:STONE 2013/07/23   | ▽=0             |
| CHKDR:WOODMAN 2013/08/01 |                 |
| APPR:WOODMAN 2013/12/30  |                 |
| REV                      | DESCRIPTION     |

| GENERAL TOLERANCES (UNLESS SPECIFIED) |       |
|---------------------------------------|-------|
| mm                                    | INCH  |
| 4 PLACES ± ---                        | ± --- |
| 3 PLACES ± ---                        | ± --- |
| 2 PLACES ± ---                        | ± .01 |
| 1 PLACE ± 0.3                         | ± --- |
| ANGULAR ± 2 °                         |       |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

| DIMENSION STYLE |              | SCALE              | DESIGN UNITS | THIRD ANGLE PROJECTION |
|-----------------|--------------|--------------------|--------------|------------------------|
| IN/MM           |              | 1.5:1              | INCH         |                        |
| DRAWN BY        | DATE         | TITLE              |              |                        |
| RSTONE          | 2011/11/21   | ULTRA-LOCK ZONE 2  |              |                        |
| CHECKED BY      | DATE         | MALE, STRAIGHT     |              |                        |
| L. HARTMANN     | 2012/01/27   | K05, 22 AWG, TPE   |              |                        |
| APPROVED BY     | DATE         | MOLEX INCORPORATED |              |                        |
| JFMURPHY        | 2012/04/18   | SD-120614-009      |              |                        |
| MATERIAL NO.    | DOCUMENT NO. | SHEET NO.          |              |                        |
| SEE CHART       |              | 1 OF 1             |              |                        |

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                        |

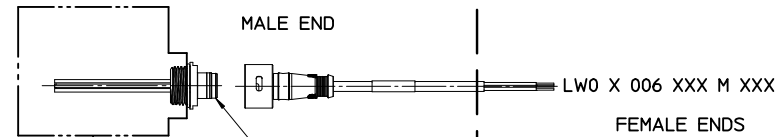
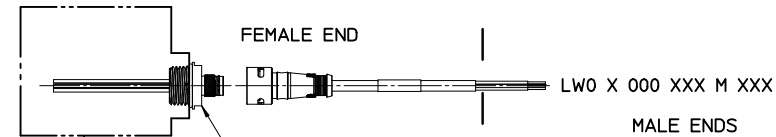
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|---|-------------------------------|---------------------------------------|-------------|--------------------------|---|--------------|---|------------------------|--|--|
| PRELIMINARY<br>EC NO: IPG2016-0500<br>DRAWN: RSTONE 2016/03/07<br>CHKD: WAI 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

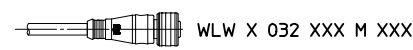
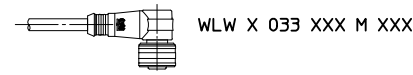
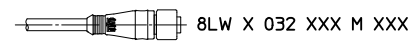
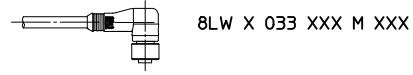
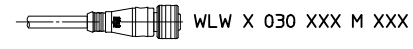
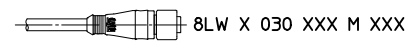
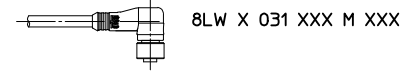
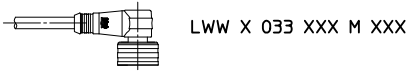
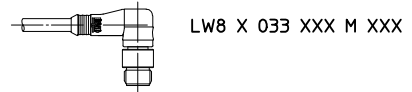
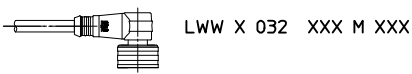
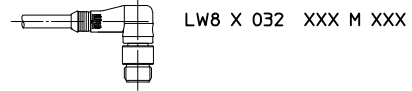
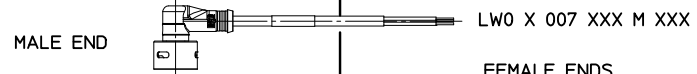
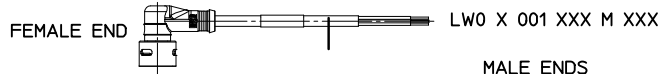
CLASS 1, DIVISION 2, GROUP A, B, C, OR D  
HAZARDOUS LOCATION

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:
- 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
  - 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
  - FIELD DEVICE APPROVAL FOR CLASS 1, DIV. 2 OR CLASS 1, ZONE2 INSTALLATIONS
  - ATEX cert no: ATEX FM15ATEX0048X IECEx FMG 15.0012X

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

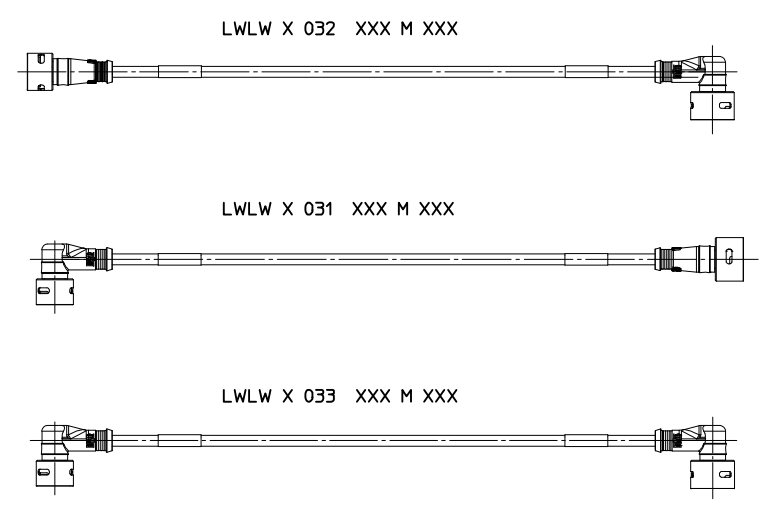
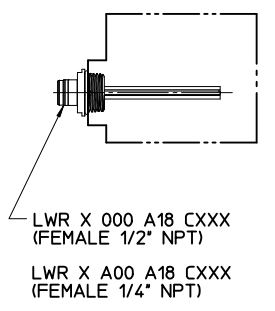
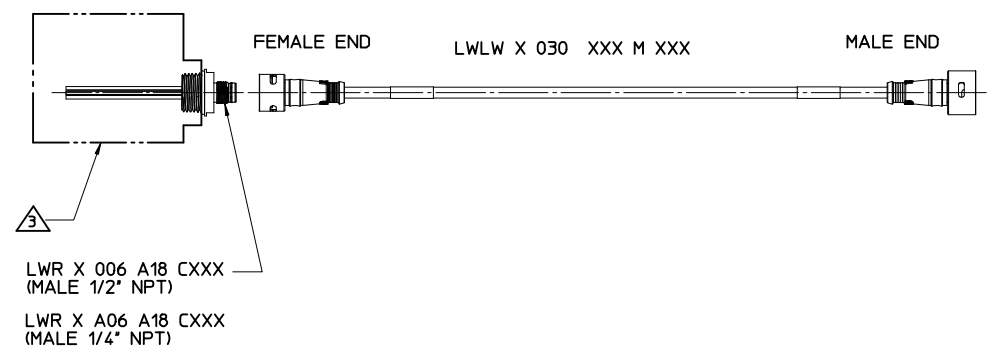
THIS DRAWING SUPERSEDES ES-120614-001 REV-B

|   |                               |  |  |                            |  |                               |                      |   |  |  |
|---|-------------------------------|--|--|----------------------------|--|-------------------------------|----------------------|---|--|--|
| 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>= 0<br>= 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE<br>IN/MM   |  | SCALE<br>1:1                  | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION                            |  |  |
|   |                               |  |  | DRAWN BY<br>RSTONE         |  | DATE<br>2012/05/18            |                      | TITLE<br><b>CONTROL DOC FOR ULTRA-LOCK ZONE 2</b> |  |  |
|   |                               |  |  | CHECKED BY<br>K JOZWIK     |  | DATE<br>2012/05/22            |                      |   |  |  |
|   |                               |  |  | APPROVED BY<br>JFMURPHY    |  | DATE<br>2012/08/27            |                      | <b>MOLEX INCORPORATED</b>                         |  |  |
|   |                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | MATERIAL NO.<br>1206149999 |  | DOCUMENT NO.<br>SD-120614-999 |                      | SHEET NO.<br>1 OF 3                               |  |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                               |  |  |                            |  |                               |                      |   |  |  |

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>DRAWNRSTONE 2015/10/16<br>CHKD:WAI LEUNG 2016/05/20<br>APPR:JF MURPHY 2016/05/20        | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </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>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± ---°</td> </tr> </table> |       | mm | INCH | 4 PLACES | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± --- | ± --- | 1 PLACE | ± --- | ± --- | ANGULAR ± ---° |  |  | DIMENSION STYLE<br>IN/MM<br>DRAWN BY RSTONE DATE 2012/05/18<br>CHECKED BY K JOZWIK DATE 2012/05/22<br>APPROVED BY JFMURPHY DATE 2012/08/27 | SCALE 1:1<br>DESIGN UNITS INCH<br>THIRD ANGLE PROJECTION | TITLE<br>CONTROL DOC FOR ULTRA-LOCK ZONE 2 |
|   |                               | mm  | INCH  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
|   | 4 PLACES                      | ± ---   | ± --- |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
|   | 3 PLACES                      | ± ---   | ± --- |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
| 2 PLACES  | ± ---                         | ± ---   |       |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
| 1 PLACE   | ± ---                         | ± ---   |       |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
| ANGULAR ± ---°  |                               |   |       |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
| MATERIAL NO. 1206149999<br>DOCUMENT NO. SD-120614-999<br>SHEET NO. 2 OF 3   | MOLEX INCORPORATED            |   |       |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |
| 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 |                               |   |       |    |      |          |       |       |          |       |       |          |       |       |         |       |       |                |  |  |  |  |  |

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: IFC2016-0500<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 |
|  |  | INCH   | IN/MM   |                     |                    |                                      |
|  |  | 4 PLACES ±--- ±---<br>3 PLACES ±--- ±---<br>2 PLACES ±--- ±---<br>1 PLACE ±--- ±---<br>ANGULAR ±---° | DRAWN BY DATE<br>RSTONE 2012/05/18<br>CHECKED BY DATE<br>K JOZWIK 2012/05/22<br>APPROVED BY DATE<br>JFMURPHY 2012/08/27 | TITLE               | MOLEX INCORPORATED |                                      |
|  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | MATERIAL NO.<br>1206149999   | DOCUMENT NO.<br>SD-120614-999   | SHEET NO.<br>3 OF 3 |                    |                                      |