



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



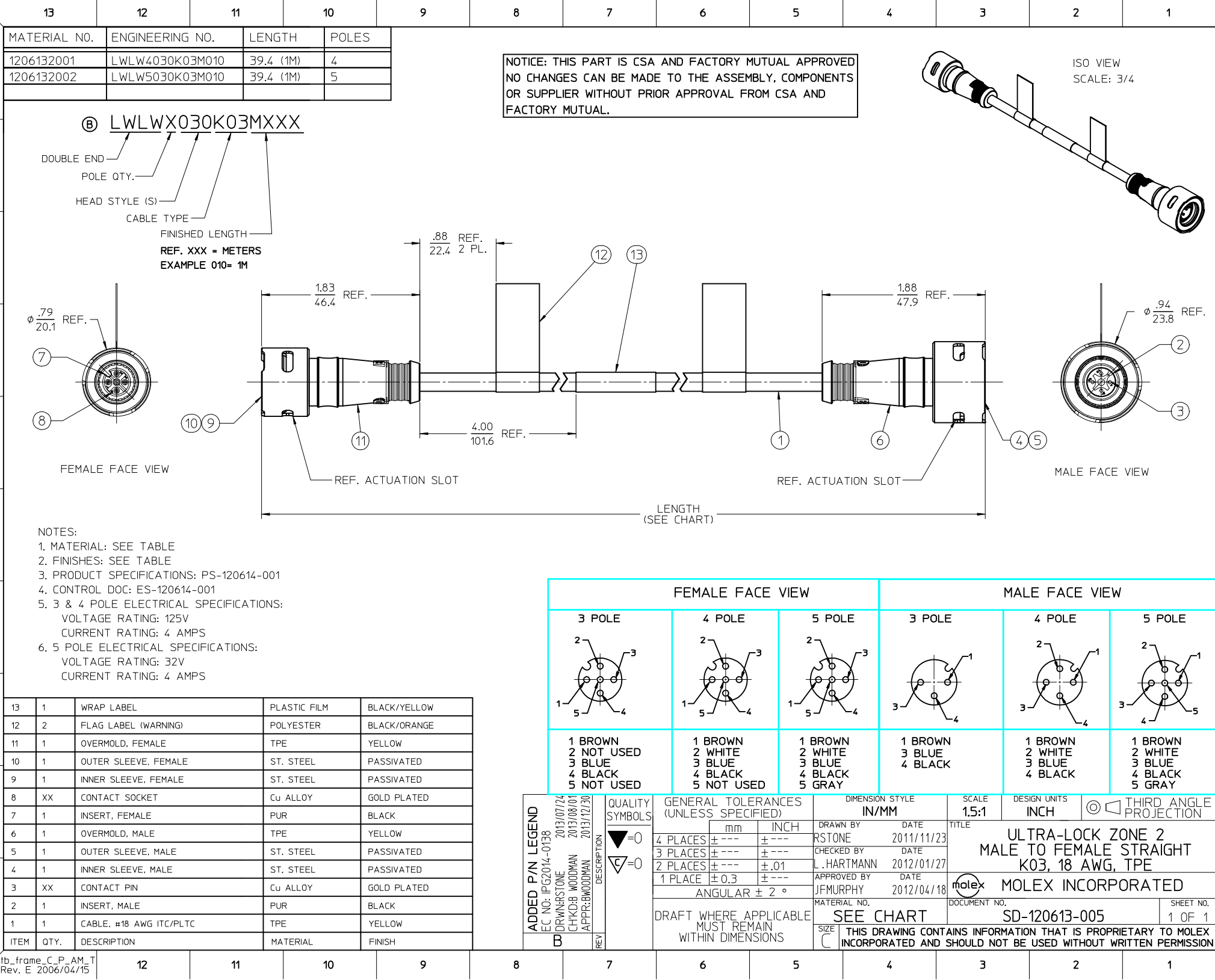
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

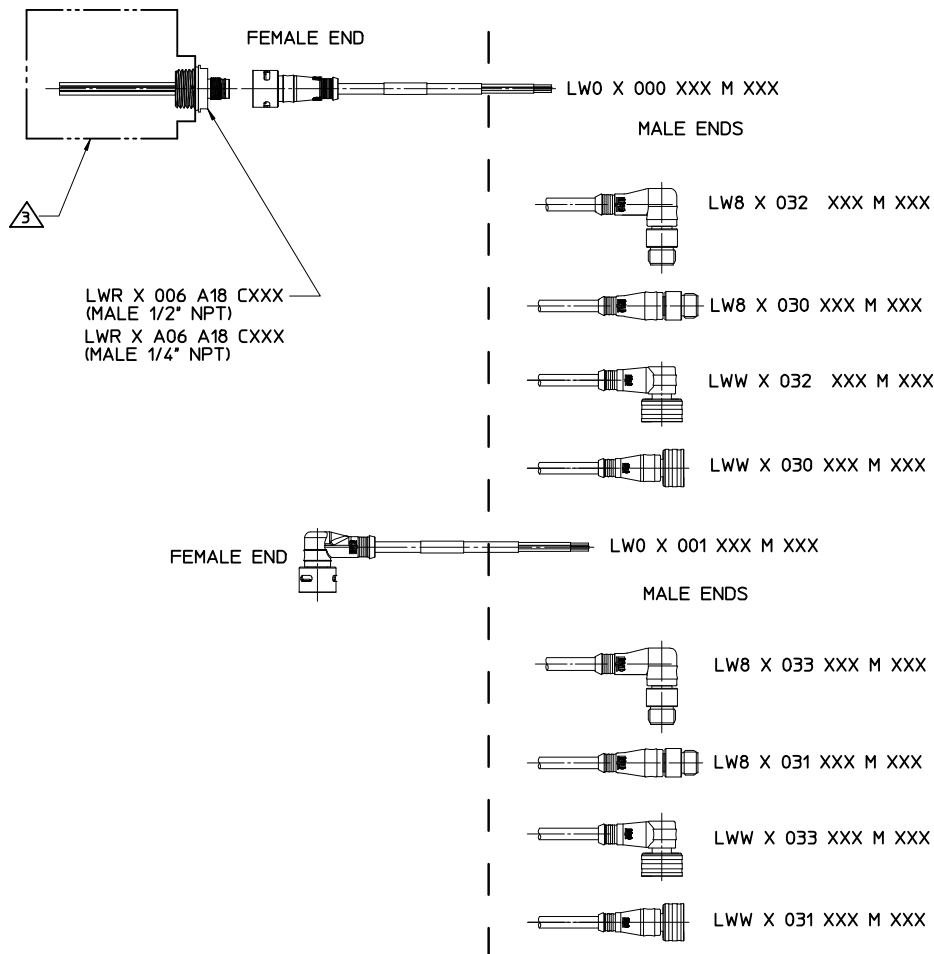
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

NON-HAZARDOUS LOCATION



NOTES:

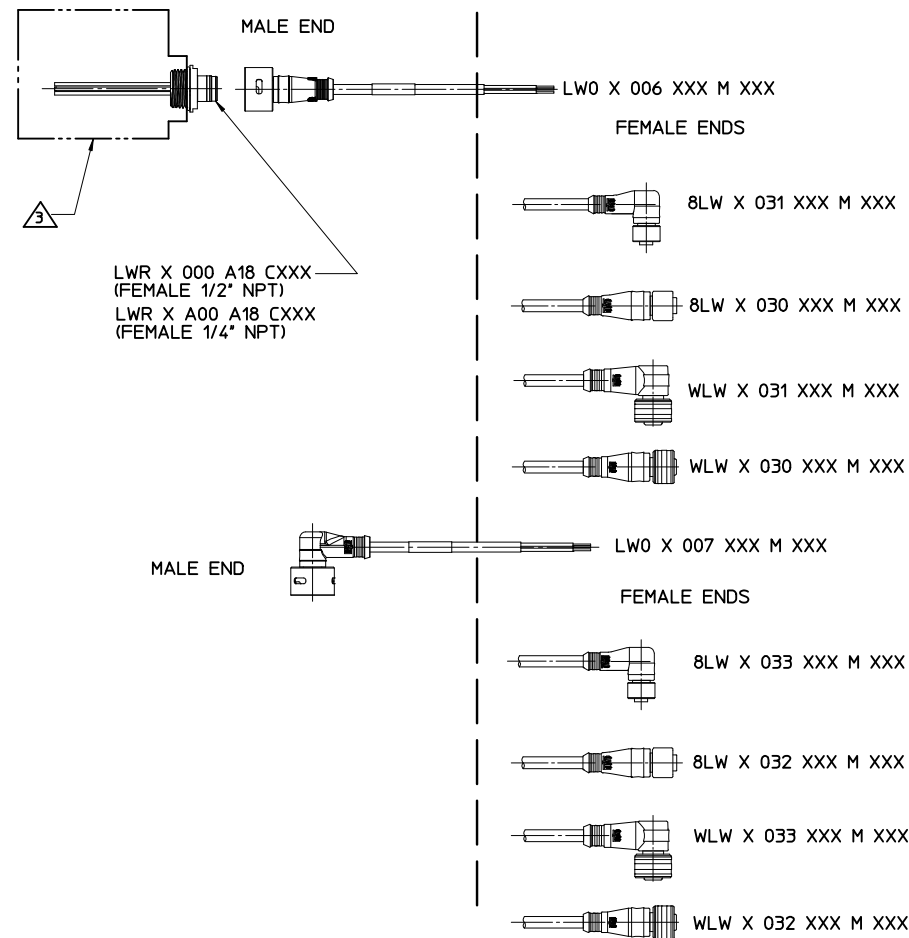
1. THE INSTALLATION MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), ANSI/NFPA 70. SPECIFIC REQUIREMENTS FOR THE INSTALLATION OF ITC RATED CABLE MAY BE FOUND IN ARTICLE 501.4(B)(1)(5) AND ARTICLE 727.4
2. THE MOLDED CONSTRUCTION OF THE CORDSET AND GAS/VAPORTIGHT CONTINUOUS SHEATH OF THE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

FIELD DEVICE APPROVAL FOR CLASS 1, DIV. 2
OR CLASS 1, ZONE2 INSTALLATIONS

REF. SEE SHEET 3 FOR CONFIGURATION INFORMATION

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

NON-HAZARDOUS LOCATION



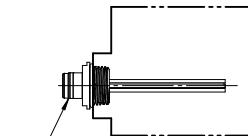
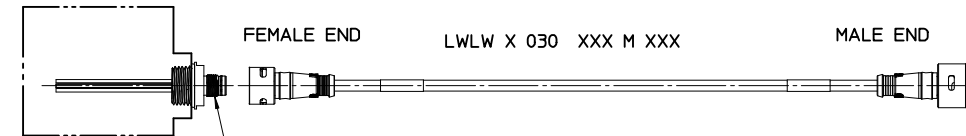
NOTICE: THIS PART IS CSA AND FACTORY MUTUAL APPROVED
NO CHANGES CAN BE MADE TO THE ASSEMBLY, COMPONENTS
OR SUPPLIER WITHOUT PRIOR APPROVAL FROM CSA AND
FACTORY MUTUAL.

THIS DRAWING SUPERSEDES ES-120614-001 REV-B

ADDED NOTE 4 EC NO: IPG2016-0500 2015/10/16 DRAWN: RSTONE 2016/05/20 CHKD: WAI LEUNG APPR: JFMURPHY 2016/05/20	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY RSTONE	DATE 2012/05/18	TITLE CONTROL DOC FOR ULTRA-LOCK ZONE 2		
				4 PLACES	± ---	± ---	CHECKED BY K JOZWIK	DATE 2012/05/22	MOLEX INCORPORATED		
				3 PLACES	± ---	± ---					
				2 PLACES	± ---	± ---					
				1 PLACE	± ---	± ---	APPROVED BY JFMURPHY	DATE 2012/08/27	molex		
ANGULAR ± ---°		MATERIAL NO. 1206149999		DOCUMENT NO. SD-120614-999		SHEET NO. 1 OF 3					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE C 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

HAZARDOUS LOCATION



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

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

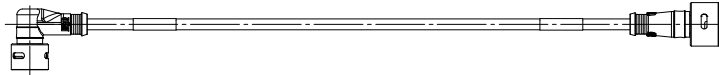
LWR X 000 A18 CXXX
(FEMALE 1/2" NPT)

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

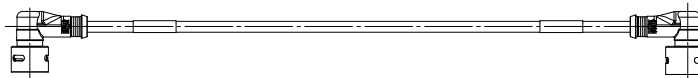
LWLW X 032 XXX M XXX



LWLW X 031 XXX M XXX



LWLW X 033 XXX M XXX



REF:

1. SEE SHEET 1 FOR NOTES
2. SEE SHEET 3 FOR CONFIGURATION INFORMATION

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.

SEE SHEET 1 EC NO: JFG2016-0500 DRAWN BY: DRWNRSTONE CHKD BY: WAI LEUNG APPR: JFMURPHY REV: D	DESCRIPTION REV: D	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY RSTONE	DATE 2012/05/18	TITLE CONTROL DOC FOR ULTRA-LOCK ZONE 2					
			4 PLACES	± ---	± ---	CHECKED BY K JOZWIK	DATE 2012/05/22						
			3 PLACES	± ---	± ---	APPROVED BY JFMURPHY		DATE 2012/08/27	MOLEX INCORPORATED				
			2 PLACES	± ---	± ---								
			1 PLACE	± ---	± ---	MATERIAL NO. 1206149999		DOCUMENT NO. SD-120614-999	SHEET NO. 2 OF 3				
ANGULAR ± ---°													
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
LWV= 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 EC NO: IPG2016-0500 DRAWNR: RSTONE CHKD: WAI LEUNG APPR: JFMURPHY	2015/10/16 2016/05/20 2016/05/20	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION ◎ □			
					mm	INCH	DRAWN BY RSTONE	DATE 2012/05/18	TITLE CONTROL DOC FOR ULTRA-LOCK ZONE 2				
				4 PLACES	± ---	± ---	CHECKED BY K JOZWIK	DATE 2012/05/22					
				3 PLACES	± ---	± ---	APPROVED BY JFMURPHY	DATE 2012/08/27					
				2 PLACES	± ---	± ---	MATERIAL NO. 1206149999		DOCUMENT NO. SD-120614-999		SHEET NO. 3 OF 3		
				1 PLACE	± ---	± ---							
				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						