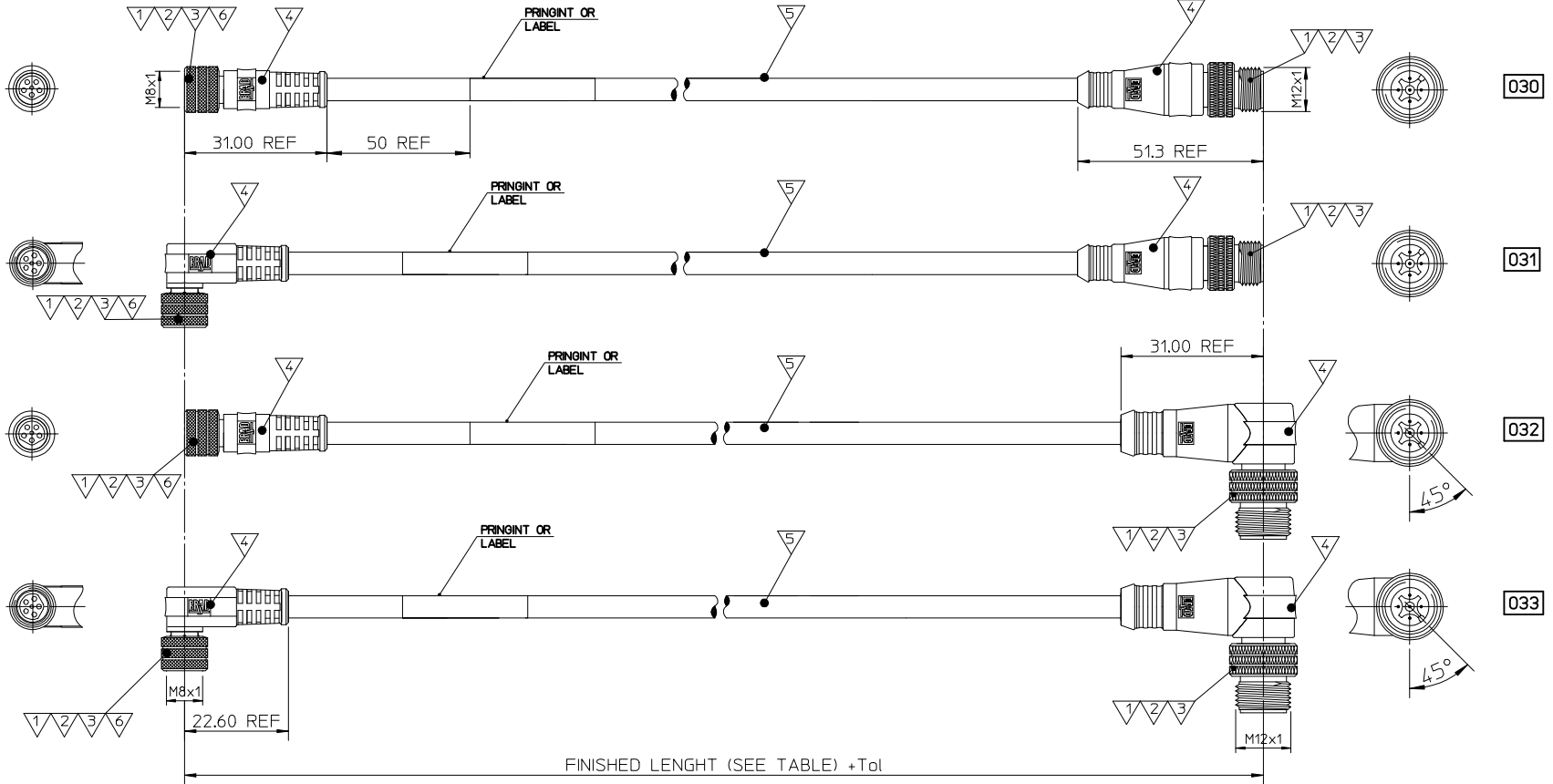


S1

FEMALE SIDES M8  
FACE VIEWS

MALE SIDES M12  
FACE VIEWS

S2



CONNECTOR SPECIFICATION:

VOLTAGE RATING	3-4POL:60V/AC-75V/DC   5P/60V
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP68
OPERATING TEMPERATURE	-25°C TO 80°C

6	O-RING	VITON	---
5	CABLE	SEE TABLE	---
4	OVERMOULDING	TPU UF NATURAL C98A10	---
4	OVERMOULDING	MASTERBATCH COLORANT	---
3	COUPLING NUT	SEE SPECIAL TYPES	---
2	PIN CONTACT	COPPER ALLOY	GOLD OR NICKEL PLATED
1	INSERT	PUR	BLACK
ITEM	PART	MATERIAL	FINISH

ORIGINAL RELEASE  
EC NO: IPG2013-1021  
DRWN:HWALCZAK 2012/11/24  
CHKD:JMARSZALEK 2013/01/14  
APPR:MIWASIECZKO 2013/01/15

QUALITY SYMBOLS  
▽=0  
◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ± --- °  
DRAFT WHERE APPLICABLE  
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

DRAWN BY	DATE
HWALCZAK	2012/11/24
CHECKED BY	DATE
JMARSZALEK	2013/01/14
APPROVED BY	DATE
MIWASIECZKO	2013/01/15

MATERIAL NO.  
SEE CHART

SCALE  
DESIGN UNITS  
METRIC

FIRST ANGLE PROJECTION

TITLE  
CSE M8 M12 XP XC FE MA  
XM DE

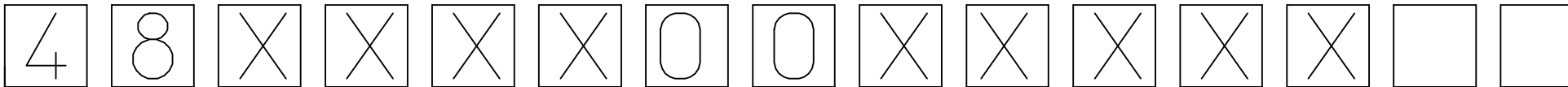
**molex**

DOCUMENT NO.  
SD-120087-045

SHEET NO.  
1 OF 3

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SPECIAL TYPES



Thread M8x1 Thread M12x1

**POLES**  
 3- INSERT 3 POLES  
 4- INSERT 4 POLES  
 5- INSERT 5 POLES

**HEAD TYPE**  
 030 Plugs female M8 and male M12 straight  
 031 Plugs female M8 90° and male M12 straight  
 032 Plugs female M8 straight and male M12 90°  
 033 Plugs female M8 and male M12 90°

**CABLE TYPES**  
 E02 = 0,25mm², PVC black  
 E18 = 0,2mm², PVC yellow braid DC  
 H08 = 0,25mm², PUR black LSOH  
 H69 = 0,2mm², PUR grey LSOH SCR  
 I02 = 0,25mm², PVC grey CEI  
 P02 = 0,25mm², PUR/PVC black  
 P08 = 0,25mm², PUR yellow HIFLEX  
 P82 = 0,34mm², PUR orange irradiated DC  
 S20 = 0,34mm², PVC yellow SJTO braid  
 S26 = 0,34mm², PVC yellow SJTO braid AC

**LENGTH UNIT**  
 C-cm  
 M-m  
 K-km  
 F-feet

**LENGTH**  
 Example:  
 020 - 2M  
 060 - 6M  
 100 - 10M

**COUPLING NUT**  
 blank and 3-standard (BRASS)  
 1 - STAINLESS STEEL  
 5 - DELRIN  
 7 - TEFLON COAT

**PLUG MATERIAL**  
 blank-standard (BLACK)  
 A-GREY  
 Y-YELLOW  
 H-standard with ID carrier

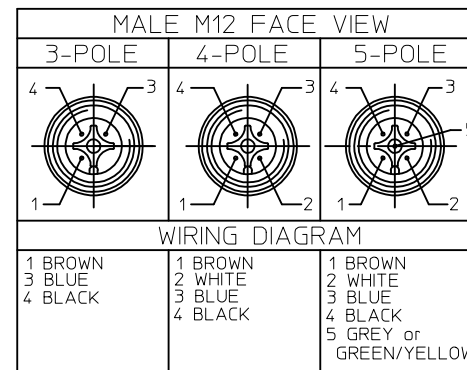
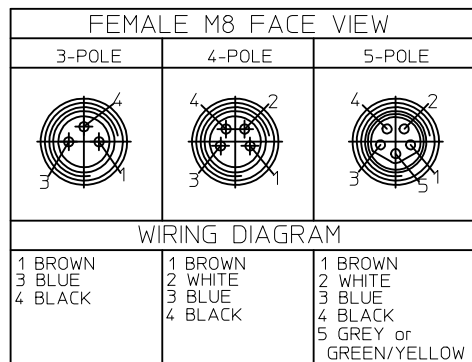


Table of length tolerances mm

OVER	UP TO	TOLERANCE +
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	-	+2% OF LENGTH

ORIGINAL RELEASE EC NO: IPG2013-1021 DRWN:HWALCZAK 2012/11/24 CHKD:JMARSZALEK 2013/01/14 APPR:MIWASIECZKO 2013/01/15	DESCRIPTION A	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE METRIC	DESIGN UNITS METRIC		FIRST ANGLE PROJECTION			
			4 PLACES ± --- ± ---		DRAWN BY HWALCZAK		DATE 2012/11/24		TITLE CSE M8 M12 XP XC FE MA XM DE				
			3 PLACES ± --- ± ---		CHECKED BY JMARSZALEK		DATE 2013/01/14						
			2 PLACES ± --- ± ---		APPROVED BY MIWASIECZKO		DATE 2013/01/15						
			1 PLACE ± --- ± ---		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-120087-045						
0 PLACE ± --- ± ---		ANGULAR ± --- °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

	10	9	8	7	6	5	4	3	2	1
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	1200878405	483030E02M005	1200878420	483030P02M100	1200280333	483032E02M020	1200878466	484030E02M035		
	1200878038	483030E02M006	1200878121	483030P82M003	1200878441	483032E02M050	1200878467	484030E02M040		
	1200878406	483030E02M010	1200280411	483030P82M0037	1200878442	483032E02M100	1200878468	484030E02M050		
	1200878407	483030E02M010H	1200878045	483030P82M0067	1200878443	483032E02M150	1200878469	484030E02M100		
	1200878039	483030E02M020	1200280869	483030P82M0107	1200878202	483032H69M010	1200878565	484030H08M006		
	1200878408	483030E02M030	1200280532	483030P82M030	1200878204	483032H69M040	1200878516	484030H08M010		
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	1200878410	483030E02M100	1200878422	483031E02M010	1200878207	483032H69M100	1200878525	484030H08M030		
E	1200875004	483030E18M010H	1200878423	483031E02M010H	1200878054	483032I02M006	1200878567	484030H08M050		
	1200868220	483030H08M003	1200878167	483031E02M020	1200878444	483032I02M010	1200878519	484030I02M006		
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ORIGINAL RELEASE EC NO: IPG2013-1021 DRWN:HWALCZAK 2012/11/24 CHKD:JMARSZALEK 2013/01/14 APPR:MIWASIECZKO 2013/01/15	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION	
	▽=0 ◻=0	mm	INCH	DRAWN BY	DATE	TITLE	CSE M8 M12 XP XC FE MA XM DE		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	HWALCZAK	2012/11/24				
		2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	0 PLACE ± --- ± ---	JMARSZALEK	2013/01/14			
		ANGULAR ± --- °		APPROVED BY	DATE	molex			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MIWASIECZKO	2013/01/15	DOCUMENT NO.		SHEET NO.	
				SEE CHART		SD-120087-045		3 OF 3	
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					