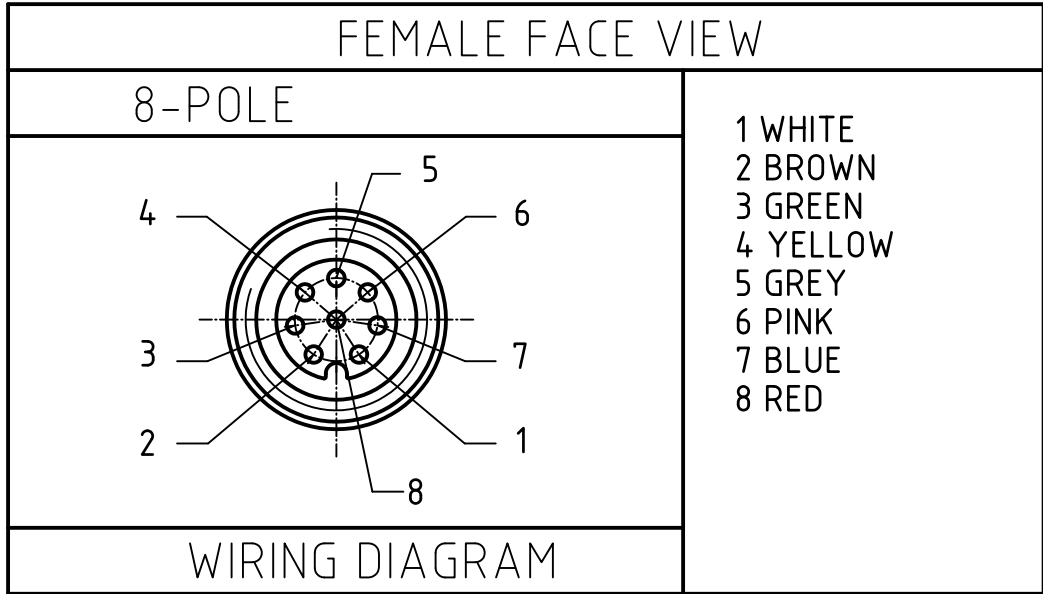
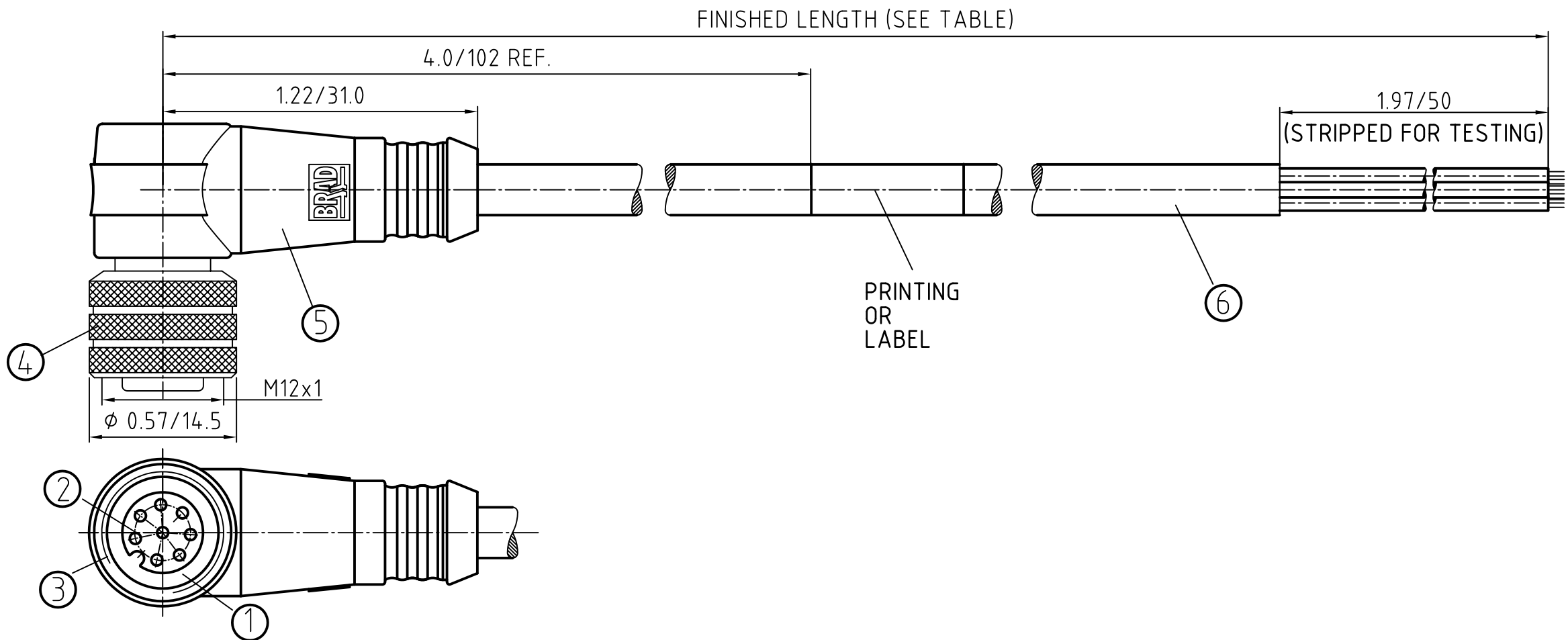




POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
8	1200650960	808001P02M020	6.56' +3.50" -0 [2.0M +88.9 -0]

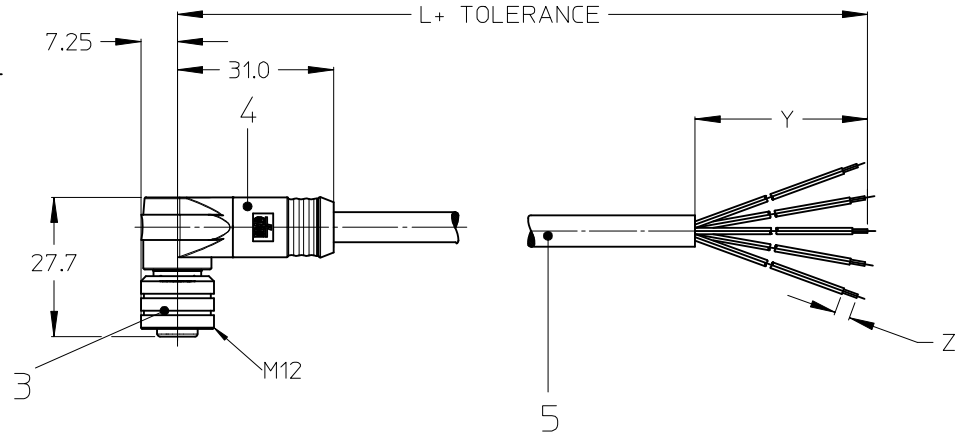
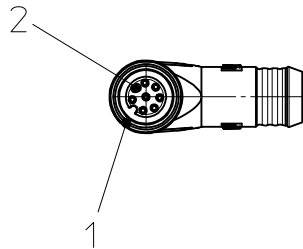
CONNECTOR SPECIFICATION:

VOLTAGE RATING	30 VAC/36 VDC
AMPERAGE RATING	2 AMPS
PROTECTION CLASS	IP68
OPERATING TEMPERATURE	-30°C TO 80°C
UL CERTIFICATIONS	NOT APPLICABLE
CSA CERTIFICATIONS	NOT APPLICABLE

ITEM	COMPONENT	MATERIAL	FINISH
1	INSERT	POLYURETHANE (PUR)	BLACK
2	CONTACT MATERIAL CONTACT PLATING	BRASS GOLD	CuZn Ni/Au
3	O-RING	VITON	RED
4	COUPLING NUT	BRASS	NICKEL PLATED
5	OVERMOLD	POLYURETHANE (PUR)	BLACK
6	CABLE- 0.25 ² /24 AWG (COPPER STRANDING) 8 CONDUCT. 300V	JACKET: PUR/PVC INSUL.: POLYPROP	JACKET: BLACK

DESCRIPTION EC NO: WEU2010-0277 DRWN: LSTEMMLE 2010/01/13 CHKD: NS APPR: NSTAUDIG 2010/01/26	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			 = 0			DRAWN BY ----	DATE ----	MICRO-CHANGE CORDSET 8-POL FEMALE 90 SE 24/8 BLACK PUR/PVC CABLE				
		 = 0			CHECKED BY RE	DATE 2010/01/21						
					APPROVED BY NSTAUDIG	DATE 2010/01/25	 MOLEX INCORPORATED					
					MATERIAL NO.	DOCUMENT NO.						SHEET NO.
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-120065-031		1 OF 1
								SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

RIGHTANGLE PLUG M12 FEMALE



NOTES:

TEMPERATURE RANGE	SEE TABLE ON PAGE 2
CONTACT CURRENT RATING	3-5 POLES 4A 8 POLES 2A
VOLTAGE RATING	3-4 POLES 250V 5 POLES 60V 8 POLES 30V
PROTECTION CLASS	IP 67

TOLERANCES

≤ 1m	+20/-10mm
1m - 5m	± 25mm
5m - 10m	± 30mm
> 10m	± 30mm
> 20m	± 50mm

3 WIRE	4 WIRE	5 WIRE	8 WIRE
PIN # WIRE	PIN # WIRE	PIN # WIRE	PIN # WIRE
1 BROWN	1 BROWN	1 BROWN	1 WHITE
2 -	2 WHITE	2 WHITE	2 BROWN
3 BLUE	3 BLUE	3 BLUE	3 GREEN
4 BLACK	4 BLACK	4 BLACK	4 YELLOW
5 -	5 -	5 GREY	5 GREY
			6 PINK
			7 BLUE
			8 RED
REQUIRED TO IEC 60947-5-2		REQUIRED TO DIN 47100	

	3 POL	4 POL	5 POL	8 POL	REMARKS
Y	30 +/-2	50 +/-2	50 +/-2	80 +/-3	OPEN END FOR TESTING
Z	3-6	3-6	3-6	3-6	NOT DEFINED

5	CABLE	SEE TABLE (PAGE 2)	---
4	OVERMOULDING	TPU	SEE CODE (PAGE 2)
3	MALE COUPLING NUT	BRASS	SEE CODE (PAGE 2)
2	PIN CONTACT	BRASS	GOLD PLATED
1	INSERT	PUR	BLACK
ITEM	PART	MATERIAL	FINISH

ENTER DESCRIPTION EC NO: IPG2014-0812 DRWN:PMERUNKA 2013/08/09 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18 REV 2	DESCRIPTION	QUALITY SYMBOLS ▽=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 		
				mm	INCH	DRAWN BY PMERUNKA	DATE 2012/04/24	TITLE CSE M12 XP AC FE RA XM SE UNSH			
			4 PLACES	± ---	± ---	CHECKED BY RSILLER	DATE 2013/01/18				
			3 PLACES	± ---	± ---	APPROVED BY CBURGER	DATE 2013/07/16				
			2 PLACES	± 0.05	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
			1 PLACE	± 0.10	± ---	SEE TABLE		SD-120065-052		1 OF 4	
			0 PLACE	± ---	± ---	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			ANGULAR ± .5 °								
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

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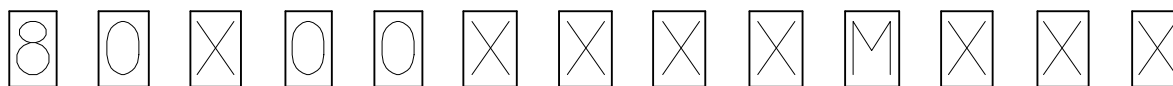
4

3

2

1

NUMERICAL CODE (Available parts see table page 3 ff others on request.)



80 = M12x1
single ended

poles:
3 = 3 poles
4 = 4 poles
5 = 5 poles

header:
000 = plug female straight
001 = plug female 90° right
006 = plug male straight
007 = plug male 90° right

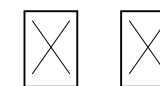
Cable:

E02 = 0,25mm², PVC black
E03 = 0,34mm², PVC black
H08 = 0,25mm², PUR black LS0H
H09 = 0,34mm², PUR black LS0H
I03 = 0,34mm², PVC grey
K05 = 0,34mm², TPE yellow
P02 = 0,25mm², PUR/PVC black
P03 = 0,34mm², PUR/PVC black
P82 = 0,34mm², PUR black irradiated
B30 = 0,34mm², TPE black

M = meter

length:
Example
020 = 2 m

Special Types:



5 = Delrin
H = Std with ID tag
1 = Stainless Steel
7 = Teflon coat

y = yellow overmoulding
empty for black

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	static	flexing	drag chain tested	other
E02	0.25mm ²	PVC black	STYLE 2464	I/II A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
E03	0.34mm ²	PVC black	STYLE 2464	I/II A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
H08	0.25mm ²	PUR black LS0H	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	2000000 cycles	---
H09	0.34mm ²	PUR black LS0H	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	drag chain 60°C	---
I03	0.34mm ²	PVC grey	---	---	-30°C to +70°C	-5°C to +70°C	---	---
K05	0.34mm ²	TPE yellow	ITC E195601 or PLTC	AWM I/II A/B FT4 LL54185	---	---	---	CSA-US: ITC LL54185-02
P02	0.25mm ²	PUR/PVC black	not applicable	not applicable	-30°C to +80°C 7xD	-5°C to +80°C 15xD	---	---
P03	0.34mm ²	PUR/PVC black	not applicable	not applicable	-30°C to +80°C 7xD	-5°C to +80°C 15xD	---	---
P82	0.34mm ²	irrad. PUR orange	---	---	-50°C to +105°C 5xD	-40°C to +105°C 7.5xD	---	---
B30	0.34mm ²	PUR black	STYLE 21215	yes	-40°C to +90°C 5xD	-25°C to +80°C 7.5xD	---	---

ENTER DESCRIPTION	REV
EC NO: IPG2014-0812 DRWN:PMERUNKA 2013/08/09 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18	2

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± 0.05
1 PLACE	± 0.10
0 PLACE	± ---
ANGULAR ± .5 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
PMERUNKA	2012/04/24
CHECKED BY	DATE
RSILLER	2013/01/18
APPROVED BY	DATE
CBURGER	2013/07/16
MATERIAL NO.	
SEE TABLE	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
1:1	METRIC	☉
TITLE		
CSE M12 XP AC FE RA XM SE UNSH		
DOCUMENT NO.		
SD-120065-052		
SHEET NO.		
2 OF 4		

molex

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	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																																																																																																																																							
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				mm	INCH	DRAWN BY PMERUNKA	DATE 2012/04/24	TITLE CSE M12 XP AC FE RA XM SE UNSH molex	DOCUMENT NO. SD-120065-052	SHEET NO. 3 OF 4
			4 PLACES	± ---	± ---	CHECKED BY RSILLER	DATE 2013/01/18			
			3 PLACES	± ---	± ---	APPROVED BY CBURGER	DATE 2013/07/16			
			2 PLACES	± 0.05	± ---					
			1 PLACE	± 0.10	± ---					
			0 PLACE	± ---	± ---					
			ANGULAR ± .5 °			MATERIAL NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE				
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