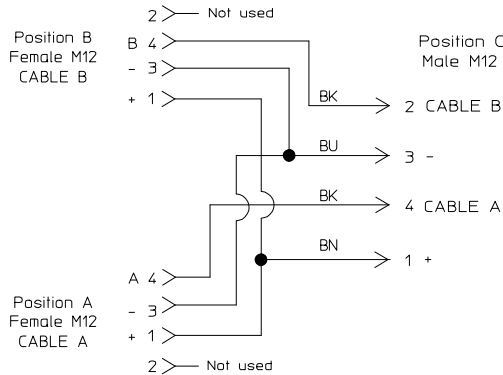
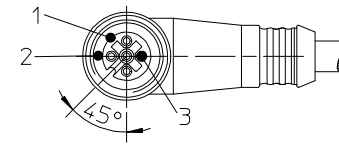


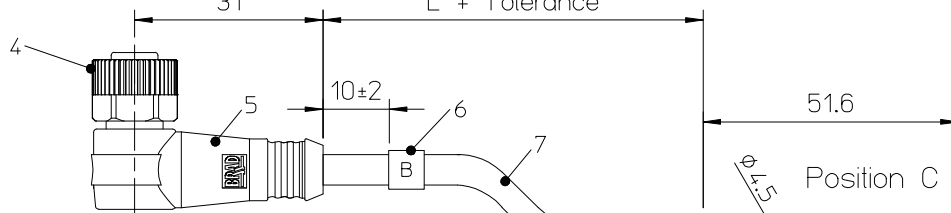
**WIRING DIAGRAM**



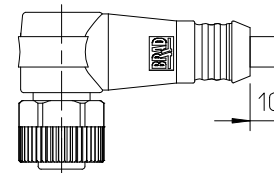
VIEW FROM FRONT SIDE



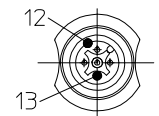
Position B (see table on sheet 2) L + Tolerance



Position A



VIEW FROM FRONT SIDE



**TOLERANCES:**

≤ 1m	+40 mm
1m - 5m	+60 mm
5m - 10m	+80 mm
> 10m	+140 mm
> 20m	+160 mm
> 30m	+1%

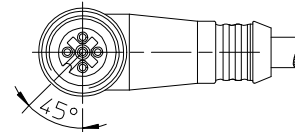
**NOTES:**

- TEMPERATURE RANGE SEE TABLE ON PAGE 2
- CONTACT CURRENT RATING 4A
- VOLTAGE RATING 250V
- PROTECTION CLASS IP 67

**BILL OF MATERIALS:**

ITEM	Qty.	DESCRIPTION	MATERIAL	FINISH
13	4	CONTACT MALE	BRASS	SELECTIVE GOLD PLATED
12	1	INSERT 4P MALE M12 BLACK	PUR	---
11	1	COUPLING NUT MALE SW13	BRASS	Ni PLATED
10	1	CENTRE SPACER ILS GREY	PVC	---
9	-	OVERMOULDING BLACK	PVC	---
8	1	LABEL YELLOW	VINYL TAPE	---
7	2	CABLE	SEE TABLE (SHEET 2)	---
6	-	IDENTIFICATION LABEL	---	---
5	-	OVERMOULDING BLACK	TPU	---
4	2	COUPLING NUT FEMALE SW13	BRASS	Ni PLATED
3	6	CONTACT FEMALE	BRASS	SELECTIVE GOLD PLATED
2	2	ORING RED	FPM	---
1	2	INSERT 3P FEMALE M12 BLACK	PUR	---

VIEW FROM FRONT SIDE



**Mating face view:**

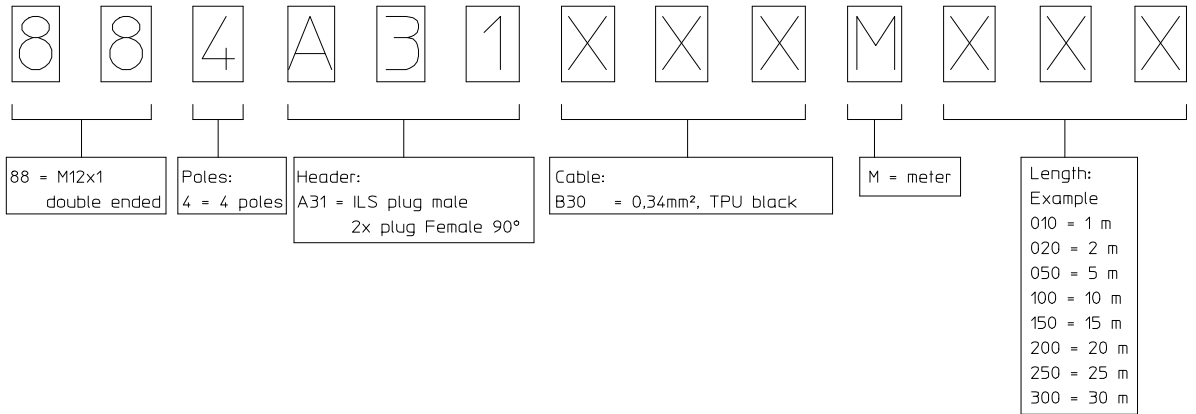
Position A & B		Position C	
3 WIRE		4 WIRE	
PIN # WIRE	PIN # WIRE	PIN # WIRE	PIN # WIRE
1 BROWN	1 BROWN CABLE A+B	1 BROWN	1 BROWN CABLE A+B
2 -	2 BLACK CABLE B	2 BLACK	2 BLACK CABLE B
3 BLUE	3 BLUE CABLE A+B	3 BLUE	3 BLUE CABLE A+B
4 BLACK	4 BLACK CABLE A	4 BLACK	4 BLACK CABLE A

<p>Changed overmold color YE-&gt;BK</p> <p>EC NO: IPGZ015-2069</p> <p>DRWN: JMARSZALEK 2015/06/03</p> <p>CHKD: APAMIAK01 2015/06/03</p> <p>APPR: MIWASIECZKO 2015/06/03</p>	<p>QUALITY SYMBOLS</p> <p>▽=0</p> <p>◻=0</p>	<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> <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>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>0 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	<p>DIMENSION STYLE</p> <p><b>MM ONLY</b></p>	<p>SCALE</p> <p>-</p>	<p>DESIGN UNITS</p> <p>METRIC</p>	<p>THIRD ANGLE PROJECTION</p>
			mm	INCH																				
		4 PLACES	± ---	± ---																				
		3 PLACES	± ---	± ---																				
2 PLACES	± ---	± ---																						
1 PLACE	± ---	± ---																						
0 PLACE	± ---	± ---																						
<p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>		<p>ANGULAR ±---°</p>	<p>DRAWN BY DATE</p> <p>JMARSZALEK 2014/11/15</p>	<p>CHECKED BY DATE</p> <p>FGAIK 2014/11/15</p>	<p>TITLE</p> <p>ILS M12 M12 4P AC MA TPU 4P AC FE RA XM DE</p>																			
<p>APPROVED BY DATE</p> <p>MIWASIECZKO 2015/06/03</p>		<p>MATERIAL NO.</p> <p><b>SEE SHEET 2</b></p>		<p>DOCUMENT NO.</p> <p><b>SD-120068-001</b></p>		<p>SHEET NO.</p> <p>1 OF 2</p>																		
<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p>																								

PART LIST

MOLEX PN	ENGINEERING No.	CABLE LENGTH "L" IN M
1200688189	884A31B30M006	0.6M
1200688190	884A31B30M010	1M
1200688191	884A31B30M020	2M
1200688192	884A31B30M050	5M

NUMERICAL CODE (Available parts see PART LIST table. If others on request.)



CABLE SPECIFICATION

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	Temp. range static Bending radius static	Temp. range dynamic Bending radius dynamic	drag chain tested	other information
B30 3P	0.34mm <sup>2</sup>	TPU black	STYLE 21215	yes	-40°C to +90°C 5xD	-25°C to +80°C 7.5xD	5 mio cycles	WELD SLAG RESISTANCE

For Raw Cable Specification see SD-120209-001

Changed over mold color YE->BK EC NO: IPG2015-2069 DRWN: JMARSZALEK 2015/06/03 CHKD: APAMIAK01 2015/06/03 APPR: MIWASIECZKO 2015/06/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE -	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	▽=0 ◻=0	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	DRAWN BY: JMARSZALEK    DATE: 2014/11/15 CHECKED BY: FGAIK    DATE: 2014/11/15 APPROVED BY: MIWASIECZKO    DATE: 2015/06/03	TITLE	ILS M12 M12 4P AC MA TPU 4P AC FE RA XM DE		
	ANGULAR ± --- ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE PART LIST	MATERIAL NO.	DOCUMENT NO.	SHEET NO. 2 OF 2		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	REV	SD-120068-001					