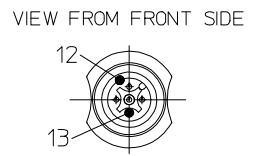
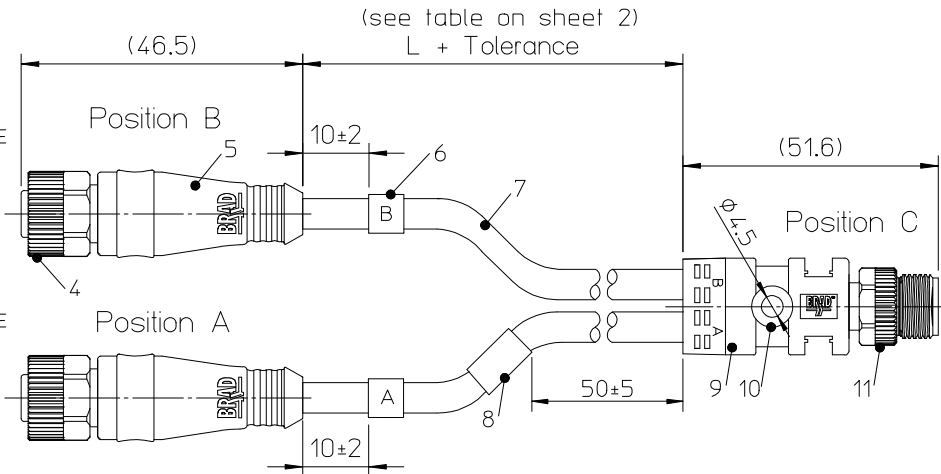
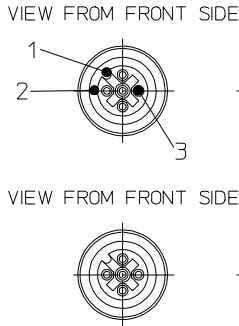
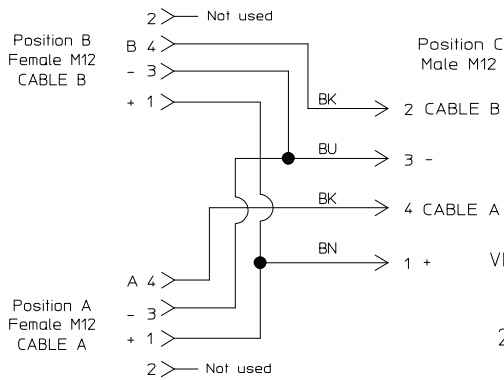


WIRING DIAGRAM



TOLERANCES:

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

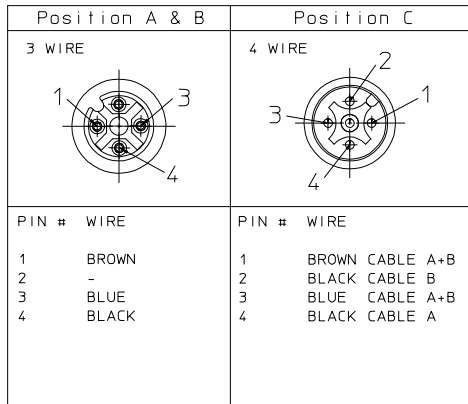
NOTES:

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

BILL OF MATERIALS:

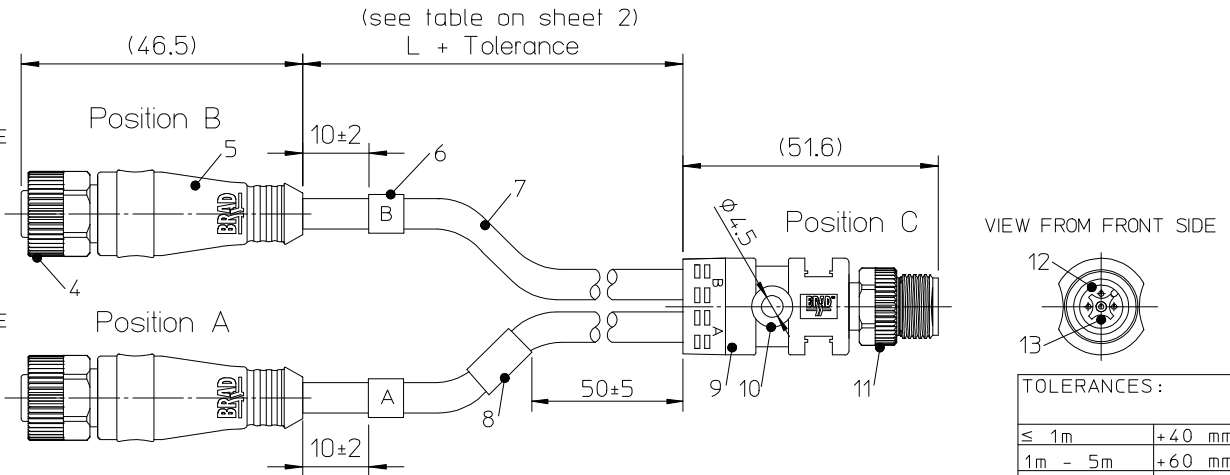
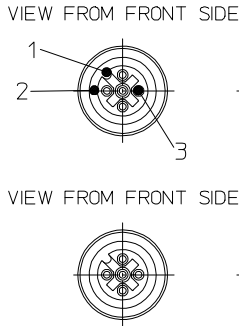
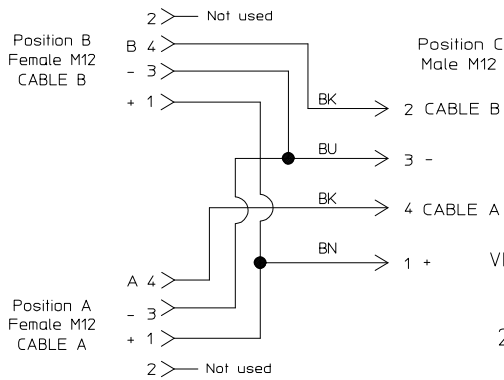
ITEM	Qty.	DESCRIPTION	MATERIAL	FINISH
13	4	CONTACT MALE	BRASS	SELECTIVE GOLD PLATED
12	1	INSERT 4P MALE M12 BLACK	PUR	---
11	1	COUPLING NUT MALE SW13	BRASS	Ni PLATED
10	1	CENTRE SPACER ILS GREY	PVC	---
9	-	OVERMOULDING BLACK	PVC	---
8	1	LABEL YELLOW	VINYL TAPE	---
7	2	CABLE	SEE TABLE (SHEET 2)	---
6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

Mating face view:



<p>Added new PNs</p> <p>EC NO: IPGZ07-0591</p> <p>DRWN: JMARSZALEK 2016/12/14</p> <p>CHKD: FGAIK 2016/12/14</p> <p>APPR: RSILLER 2016/12/15</p> <p>DESCRIPTION</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>± 0.05</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.3</td> <td>± ---</td> </tr> <tr> <td>0 PLACE</td> <td>± 0.5</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.05	± ---	1 PLACE	± 0.3	± ---	0 PLACE	± 0.5	± ---	<p>DIMENSION STYLE</p> <p>MM ONLY</p> <p>DRAWN BY: JMARSZALEK</p> <p>DATE: 2014/11/15</p> <p>CHECKED BY: FGAIK</p> <p>DATE: 2014/11/15</p> <p>APPROVED BY: MIWASIECZKO</p> <p>DATE: 2015/06/03</p>	<p>SCALE</p> <p>-</p> <p>DESIGN UNITS</p> <p>METRIC</p> <p>THIRD ANGLE PROJECTION</p>	<p>TITLE</p> <p>ILS M12 M12 4P AC MA TPU</p> <p>4P AC FE STR XM DE</p>
		mm	INCH																				
	4 PLACES	± ---	± ---																				
	3 PLACES	± ---	± ---																				
2 PLACES	± 0.05	± ---																					
1 PLACE	± 0.3	± ---																					
0 PLACE	± 0.5	± ---																					
<p>ANGULAR ± --- °</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>	<p>SEE SHEET 2</p>	<p>MATERIAL NO.</p> <p>SD-120068-002</p>	<p>SHEET NO.</p> <p>1 OF 2</p>	<p>molex</p>																			
<p>B1</p>	<p>REV</p>	<p>SIZE</p> <p>A3</p>	<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p>																				

WIRING DIAGRAM



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> 10m	+140 mm
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> 30m	+1%

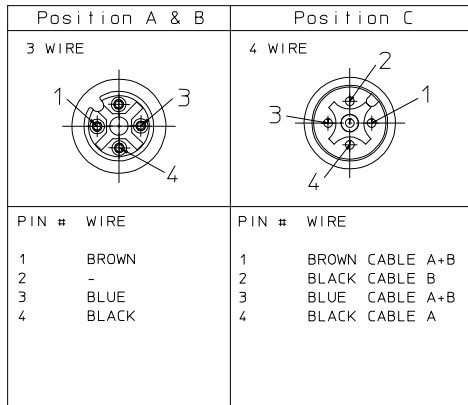
NOTES:

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

BILL OF MATERIALS:

ITEM	Qty.	DESCRIPTION	MATERIAL	FINISH
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8	1	LABEL YELLOW	VINYL TAPE	---
7	2	CABLE	SEE TABLE (SHEET 2)	---
6	-	IDENTIFICATION LABEL	---	---
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3	6	CONTACT FEMALE	BRASS	SELECTIVE GOLD PLATED
2	2	ORING RED	FPM	---
1	2	INSERT 3P FEMALE M12 BLACK	PUR	---

Mating face view:

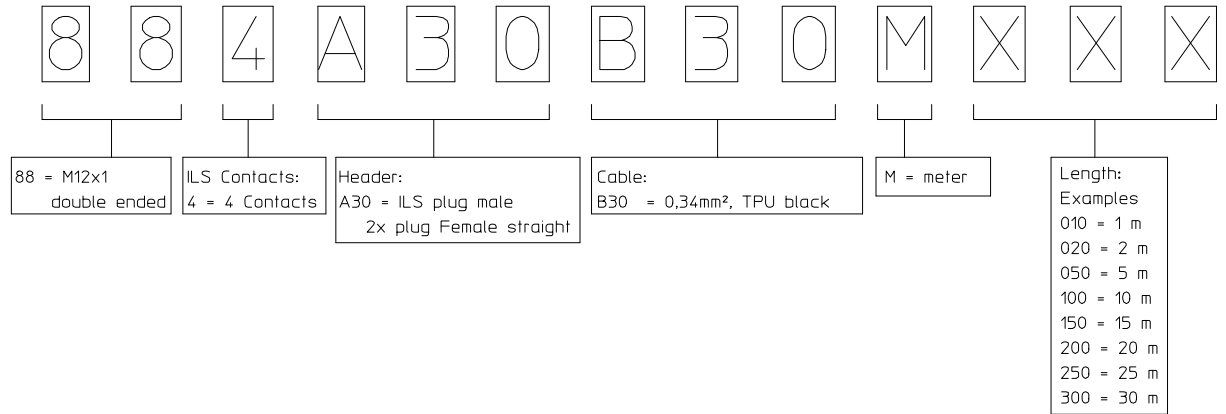


Added new PNs EC NO: IPGZ07-0591 DRWN: JMARSZALEK 2016/12/14 CHKD: FGAIK 2016/12/14 APPR: RSILLER 2016/12/15	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE -	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± 0.5 ± ---	DRAWN BY DATE JMARSZALEK 2014/11/15	CHECKED BY DATE FGAIK 2014/11/15	TITLE ILS M12 M12 4P AC MA TPU 4P AC FE STR XM DE		
		ANGULAR ± --- °	APPROVED BY DATE MIWASIECZKO 2015/06/03	MATERIAL NO.	DOCUMENT NO. SD-120068-002		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 2	SIZE A3	SHEET NO. 1 OF 2		

PART LIST

MOLEX PN	ENGINEERING No.	CABLE LENGTH "L"
1200688193	884A30B30M006	0.6m
1200688194	884A30B30M010	1m
1200688195	884A30B30M020	2m
1200688196	884A30B30M050	5m
1200688244	884A30B30M030	3m
1200688245	884A30B30M100	10m

NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).



CABLE SPECIFICATION

CABLE TYPE	WIRES NO.	WIRE GAUGE	CABLE JACKET	UL	CSA	Temp. range static Bending radius static	Temp. range dynamic Bending radius dynamic	Drag chain	Other information
B30	3	0.34mm ²	TPU Based Black	STYLE 21215	Yes	-40°C to +90°C 5xD	-25°C to +80°C 7.5xD	5 million cycles, at 25°C	Weld Slag Resistance

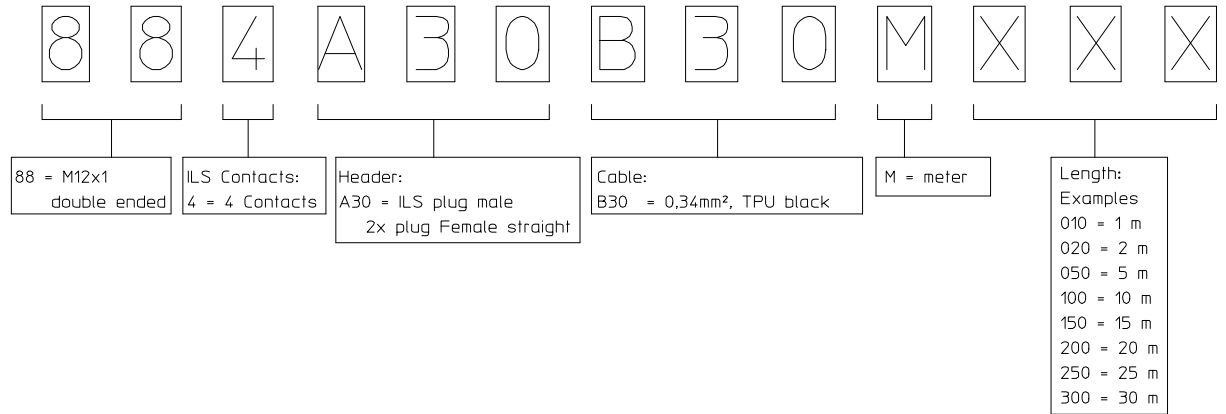
For Raw Cable Specification see SD-120209-001

Added new PNs EC NO: IPG2017-0591 DRWN: JMARSZALEK 2016/12/14 CHKD: FGAIK 2016/12/14 APPR: RSJLLER 2016/12/15	DESCRIPTION REV	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 ± 0.05 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± 0.5 ± ---	DRAWN BY DATE JMARSZALEK 2014/11/15 CHECKED BY DATE FGAIK 2014/11/15 APPROVED BY DATE MIWASIECZKO 2015/06/03	TITLE	ILS M12 M12 4P AC MA TPU 4P AC FE STR 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						
		B1				A3		

PART LIST

MOLEX PN	ENGINEERING No.	CABLE LENGTH "L"
1200688193	884A30B30M006	0.6m
1200688194	884A30B30M010	1m
1200688195	884A30B30M020	2m
1200688196	884A30B30M050	5m
1200688244	884A30B30M030	3m
1200688245	884A30B30M100	10m

NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).



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CABLE TYPE	WIRES NO.	WIRE GAUGE	CABLE JACKET	UL	CSA	Temp. range static Bending radius static	Temp. range dynamic Bending radius dynamic	Drag chain	Other information
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		▽=0 ◻=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± 0.5 ± ---	DRAWN BY DATE JMARSZALEK 2014/11/15 CHECKED BY DATE FGAIK 2014/11/15 APPROVED BY DATE MIWASIECZKO 2015/06/03	TITLE	ILS M12 M12 4P AC MA TPU 4P AC FE STR XM DE		
		ANGULAR ± --- ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE PART LIST	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	molex SD-120068-002 2 OF 2	
		B1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					