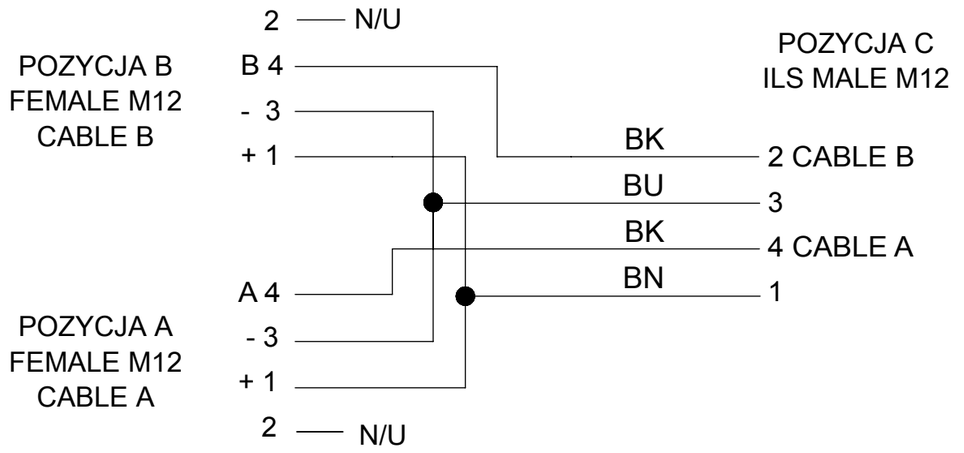
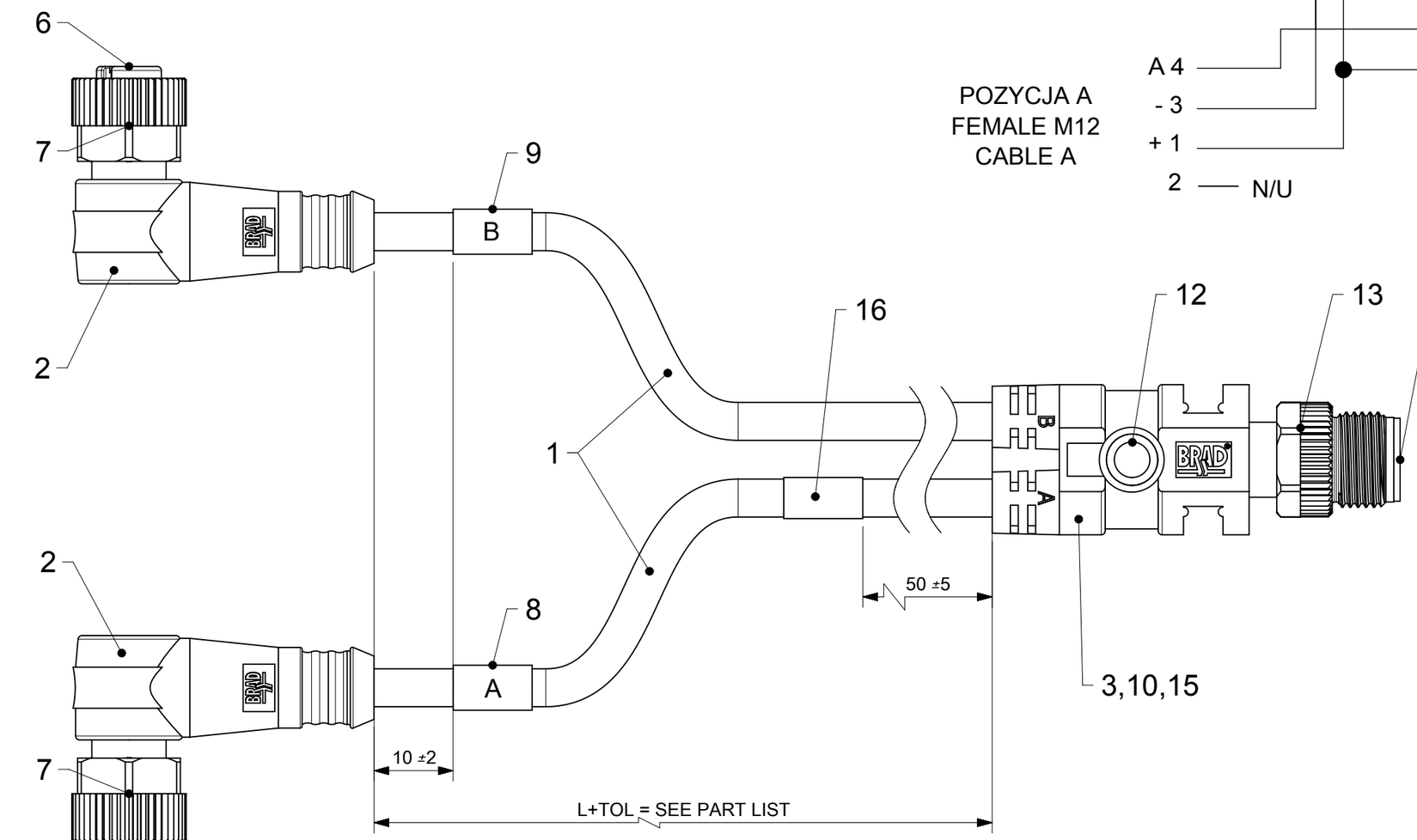
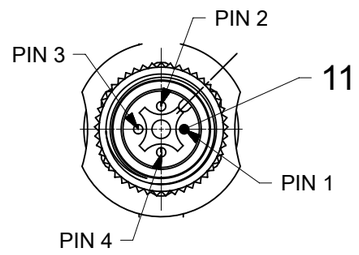


VIEW FROM THE FRONT SIDE

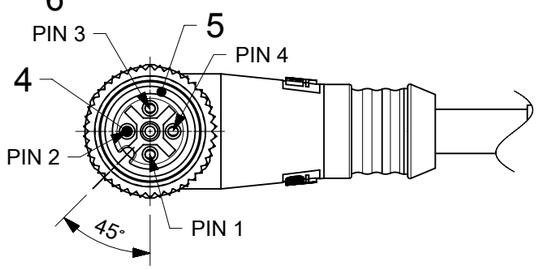
WIRING DIAGRAM







VIEW FROM THE FRONT SIDE



VIEW FROM THE FRONT SIDE

NOTES:

TEMPERATURE RANGE	SEE TABLE ON SHEET 2
CONTACT CURRENT RATING	4A
VOLTAGE RATING	250V
PROTECTION CLASS	IP67

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/07 11:11:48						

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SYMBOLS: = 0

DIMENSION UNITS: mm — SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 607242
DRWN: MCELEJEWSKI 2018/11/06
CHK'D: DSTACHOWIAK 2018/11/07
APPR: DSTACHOWIAK 2018/11/07

INITIAL REVISION:
DRWN: JMARSZALEK 2014/11/15
APPR: MIWASIECZKO 2015/06/03

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120068

molex

ILS M12 M12 4P AC MA TPU
4P AC FE RA XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120068-001	PSD	001	B1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 2

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PART No MATRIX

8	8	4	A	3	1	B	3	0	M	X	X	X	X	X

88 = M12x1
Double ended

Poles:
4 = 4 Poles

Heads style:
A31 = ILS plug Male
2x plug Female 90°

Cable:
B30 = 0.34mm² TPU Black

Units:
M = Meter

Length
Examples:
005 = 0.5 m
010 = 1 m
020 = 2 m
050 = 5 m
100 = 10 m
150 = 15 m
200 = 20 m

Coupling nut:
Blank = KNU
7 = Teflon
H = 2 pcs of I/D CARRIER

CABLE SPECIFICATION

CABLE TYPE	WIRES No	WIRE GAUAGE	CABLE JACKET	UL	CSA	TEMP. RANGE STATIC BENDING RADIUS STATIC	TEMP. RANGE DYNAMIC BENDING RADIUS DYNAMIC	DRAG CHAIN	OTHER INFORMATION
B30	3	0.34mm²	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

BOM

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR
16		LABEL	VINYL	YELLOW
15	-	HEAT-SHRINK	-	CLEAR
14	1	INSERT M12 MALE 4P	PUR	BLACK
13	1	NUT M12 MALE	BRASS	NICKEL
12	1	CENTRE SPACER	-	GREY
11	4	CONTACT 10 MALE 0.34-0.75	BRASS	GOLD OVER NICKEL
10	-	CHEMLOK	-	-
9	1	LABEL;B B-500 WMB	-	BLACK
8	1	LABEL;A B-500 WMA	-	BLACK
7	2	M12 MALE COUPLING NUT	BRASS	NICKEL
6	2	M12 INSERT 3P FEMALE	PUR	BLACK
5	2	GASKET	FPM	RED
4	6	CONTACT 10 FEMALE	BRASS	GOLD OVER NICKEL
3	-	MOULDING MATERIAL	PVC	BLACK
2	-	MOULDING MATERIAL	TPU	BLACK
1	-	CABLE 3X0.34mm²	TPU	BK

PART LIST

MOLEX PN	ENGINEERING No	L + TOL.
1200688189	884A31B30M006	600+40
1200688190	884A31B30M010	1000+60
1200688191	884A31B30M020	2000+60
1200688192	884A31B30M050	5000+60

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/07 11:11:48

SYMBOLS
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E = 0
P = 0
S = 0
▼ = 0
C = 0
☒ = 0
■ = 0
▽ = 0

DIMENSION UNITS: mm
SCALE: 1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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THIRD ANGLE PROJECTION
DRAWING: A3-SIZE
SERIES: 120068

molex

ILS M12 M12 4P AC MA TPU
4P AC FE RA XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120068-001	PSD	001	B1

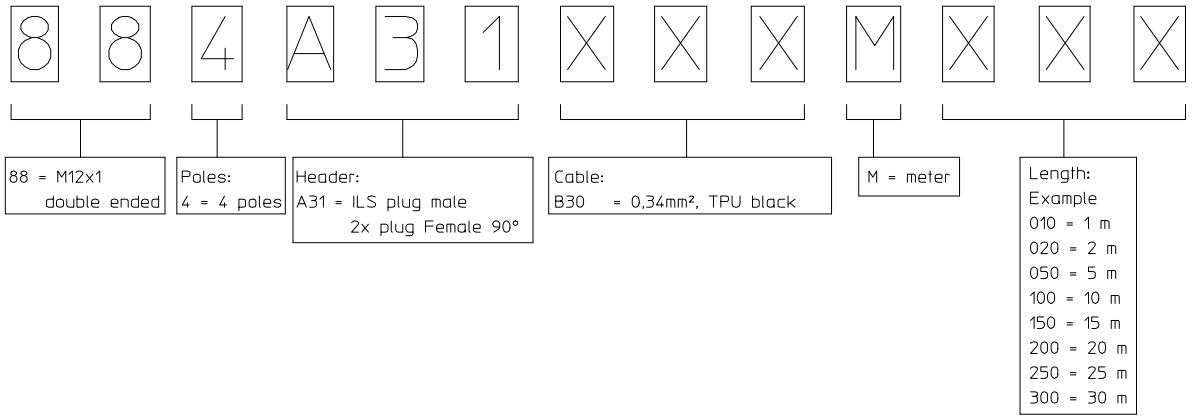
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	2 OF 2

FORMAT: molex Rev A3
DATE: 2018/11/8
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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	0.34mm²	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 overmold color YE->BK
EC NO: IPG2015-2069
DRWN:JMARSZALEK 2015/06/03
CH'KD:APAWLAK01 2015/06/03
APPR:MIWASIECZKO 2015/06/03
DESCRIPTION
B
REV

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
SCALE: -
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2014/11/15
CHECKED BY: FGAIK DATE: 2014/11/15
APPROVED BY: MIWASIECZKO DATE: 2015/06/03
MATERIAL NO.: SEE PART LIST

TITLE: ILS M12 M12 4P AC MA TPU 4P AC FE RA XM DE

molex

DOCUMENT NO.: SD-120068-001
SHEET NO.: 2 OF 2
SIZE: A3

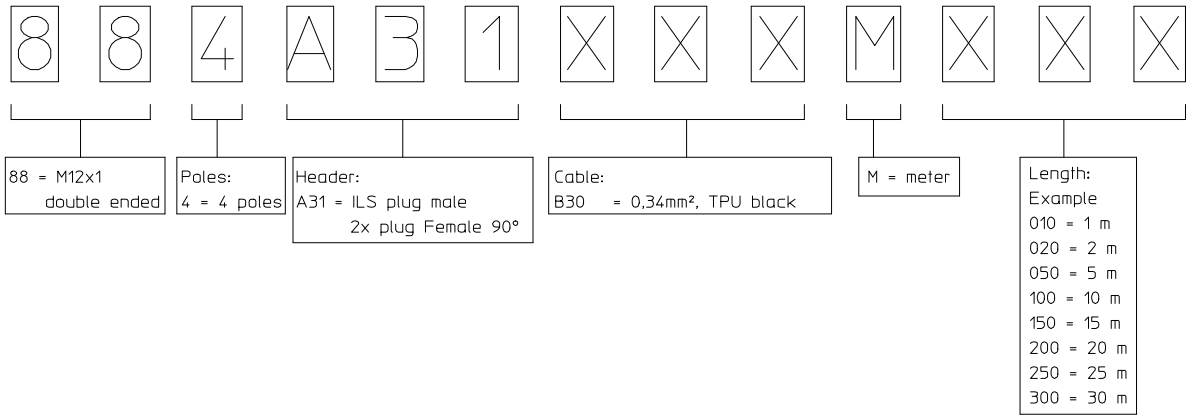
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PART LIST

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DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

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

DIMENSION STYLE: MM ONLY
SCALE: -
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2014/11/15
CHECKED BY: FGAIK DATE: 2014/11/15
APPROVED BY: MIWASIECZKO DATE: 2015/06/03
MATERIAL NO.: SEE PART LIST

TITLE: ILS M12 M12 4P AC MA TPU 4P AC FE RA XM DE

molex

DOCUMENT NO.: SD-120068-001
SHEET NO.: 2 OF 2
SIZE: A3

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