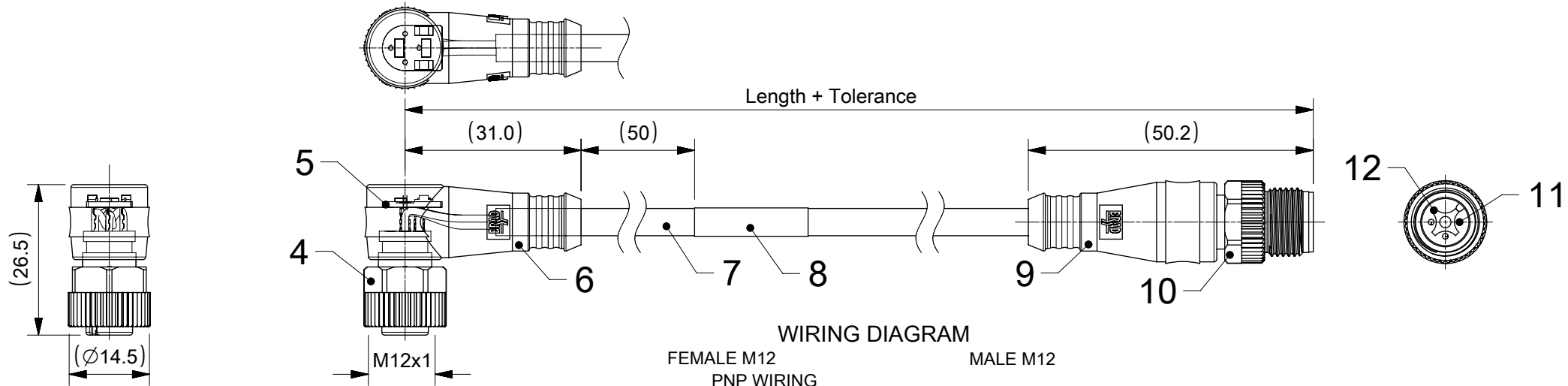
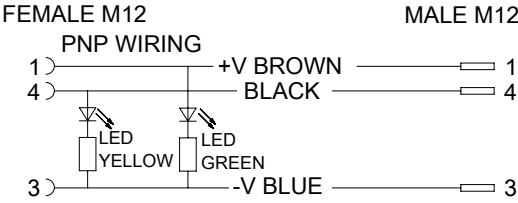


FEMALE PNP PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



WIRING DIAGRAM



CONTACTS POSITION FRONT VIEW:

	3 CONTACTS	
	PIN	WIRE
FEMALE	1	BROWN
	3	BLUE
MALE	3	BLUE
	4	BLACK

NOTES:

ELECTRICAL DATA :

VOLTAGE RATING : 10-30 VDC

AMPERAGE RATING : 4A

INSULATION RESISTANCE : 10⁸Ω MIN

MATING CYCLES : MIN. 100

ENVIRONMENTAL :

PROTECTION : IP67 in mated and locked position

OPERATING TEMPERATURE : -25°C TO +85°C

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
1	3	CONTACT M12 FEMALE	Cu ALLOY	SELECTIVE GOLD OVER NICKEL
2	1	INSERT 3P FEMALE	PUR	BLACK
3	1	ORING	FPM	RED
4	1	COUPLING NUT FEMALE SW13	BRASS	NICKEL
5	1	PCB PNP	---	---
6	-	OVERMOULD	TPU	TRANSPARENT
7	-	CABLE	SEE SHEET 2	---
8	1	LABEL	VINYL	YELLOW
9	-	OVERMOULD	TPU	BLACK
10	1	COUPLING NUT MALE SW13	BRASS	NICKEL
11	3	CONTACT M12 MALE	Cu ALLOY	SELECTIVE GOLD OVER NICKEL
12	1	INSERT 3P MALE	TPU	BLACK

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
FUNCTIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: AS PER THE PCN-513749 CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". UPDATED NOTES.			
 = 0		mm		1:1					
 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)				molex			
 = 0		ANGULAR TOL ± 1.0°							
DIVISIONAL SYMBOLS		4 PLACES		±		EC NO: 789428			
		3 PLACES		±		DRWN: AKABADI 2023/08/04			
		2 PLACES		± 0.05		CHK'D: RSILLER 2024/07/02			
		1 PLACE		± 0.3		APPR: RSILLER 2024/07/02			
		0 PLACES		± 0.5		INITIAL REVISION:			
								DRWN: JMARSZALEK 2016/10/03	
								APPR: RSILLER 2016/10/04	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES	
						A4-SIZE		120067	
						MATERIAL NUMBER		CUSTOMER	
						SEE PART LIST		GENERAL MARKET	
								SHEET NUMBER	
								1 OF 2	
								CSE M12 PNP 3P AC FE RA WSOR MA STR XM	
								PRODUCT CUSTOMER DRAWING	
						DOCUMENT NUMBER		DOC TYPE	
						1200678467		PSD	
								DOC PART	
								REVISION	
								B	

RELEASE STATUS	P1	RELEASE DATE	2024/07/02	09:18:18
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ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

8830P7BXXMXXX

88=M12x1
Double ended
Micro-Change

Contacts:
3=3 Contacts

Heads style:
0P7=Plug Female PNP 90°
to Plug Male Straight

Cable type: See Table

Units:
M=Meter

Length
Examples:
005=0.5 units
010=1 units
100=10 units

Overmold color:
Blank (Standard)=Black
Y=Yellow

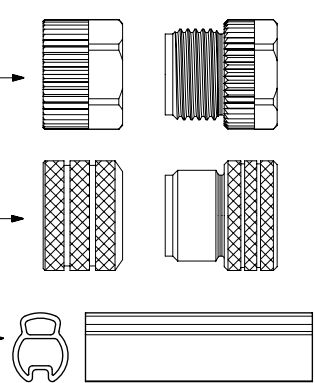
Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
7=Knurled Brass Ni Plated, Teflon Coated

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS

FEMALE

MALE



CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING	OTHER INFORMATION
B30	3	0.34mm²	TPU Based, Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C >5xO.D.	-25°C to +80°C >7.5xO.D.	-5°C to +60°C >7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-001	WSOR

PART LIST

MOLEX PN	ENGINEERING PN	L [mm]
1200678467	8830P7B30M010	1000
1200678468	8830P7B30M020	2000
1200678469	8830P7B30M030	3000
1200678470	8830P7B30M050	5000
1200678471	8830P7B30M100	10000

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

FUNCTIONAL SYMBOLS

$\frac{F}{A} = 0$

$\frac{F}{E} = 0$

$\frac{F}{P} = 0$

DIVISIONAL SYMBOLS

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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

CURRENT REV DESC: AS PER THE PCN-513749
CHANGED DIMENSIONING STYLE OF OVERALL
LENGTH TO "END TO END". UPDATED NOTES.

EC NO: 789428

DRWN: AKABADI

CHK'D: RSILLER

APPR: RSILLER

2023/08/04

2024/07/02

2024/07/02

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/10/03

2016/10/04

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 PNP 3P AC FE RA WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200678467

DOC TYPE

PSD

DOC PART

000

REVISION

B

SEE PART LIST

GENERAL MARKET

2 OF 2

RELEASE STATUS

P1

RELEASE DATE

2024/07/02

09:18:18