

NOTES:

ELECTRICAL DATA:

VOLTAGE RATING: 30V

AMPERAGE RATING: 1.5A

INSULATION RESISTANCE: 10⁸ Ω MIN.

MATING CYCLES: MIN. 100

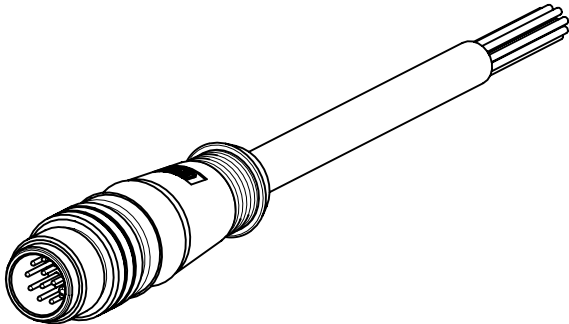
ENVIRONMENTAL:

PROTECTION: IP67

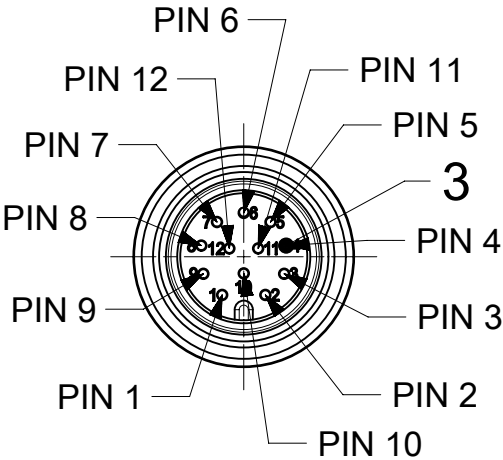
OPERATING TEMPERATURE: -25°C TO +85°C

WIRING DIAGRAM

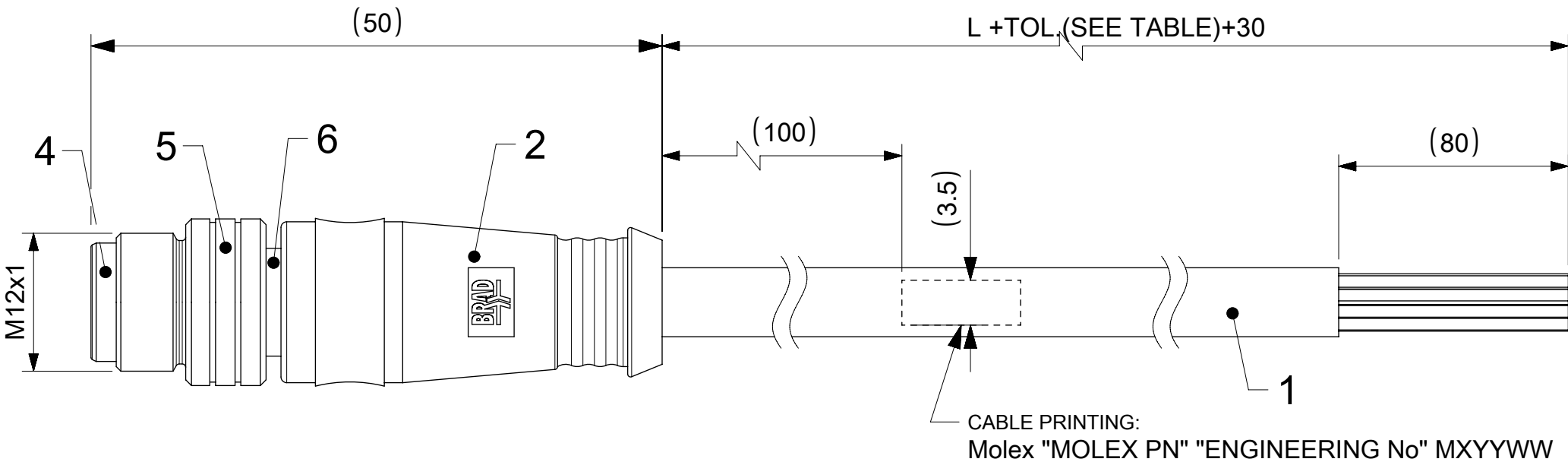
1	WHITE
2	BROWN
3	GREEN
4	YELLOW
5	GREY
6	PINK
7	BLUE
8	RED
9	BLACK
10	VIOLET
11	GREY/PINK
12	RED/BLUE



SCALE 1:1



VIEW FROM THE FRONT SIDE



BILL OF MATERIAL

ITEM	QTY	DESCIRPTION	MATERIAL	FINISH/ COLOR
1	-	CABLE 12x0.14 D6.5	PUR	BLACK
2	-	MOULDING MATERIAL	TPU	BLACK
3	12	M12 MALE CONTACT	BRASS	GOLD OVER NICKEL
4	1	INSERT U12 MALE 12P	PA	BLACK
5	1	M12 COUPLING NUT	BRASS	Ni-PLATED
6	1	M12 MALE SLEEVE SHLD	BRASS	Ni-PLATED

DOCUMENT STATUS	P1	RELEASE DATE	2023/07/24	12:16:51
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PARTS LIST

MOLEX PN	ENGINEERING NO.	L+Tol.[mm]
1200695022	80CS06P45M020	2000 ±25
1200695633	80CS06P45M0201G	2000 ±25

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
FA = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex									
FE = 0		mm		2:1															
FD = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 757505 DRWN: VHANDI 2023/02/07 CHK'D: RSILLER 2023/07/24 APPR: RSILLER 2023/07/24				CSE M12 12P AC MA STR PUR 2M SE BK BRAAU									
DIVISIONAL SYMBOLS		ANGULAR TOL ± 1.0 °																	
		4 PLACES		±		INITIAL REVISION:				DOCUMENT NUMBER 1200695022				DOC TYPE PSD		DOC PART 000		REVISION A	
		3 PLACES		±															
		2 PLACES		± 0.05		DRWN: VHANDI 2023/02/07 APPR: RSILLER 2023/07/24				MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 1					
		1 PLACE		± 0.3															
		0 PLACES		± 0.5		THIRD ANGLE PROJECTION				DRAWING		SERIES							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								A3-SIZE		120069							

J

I

H

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F

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D

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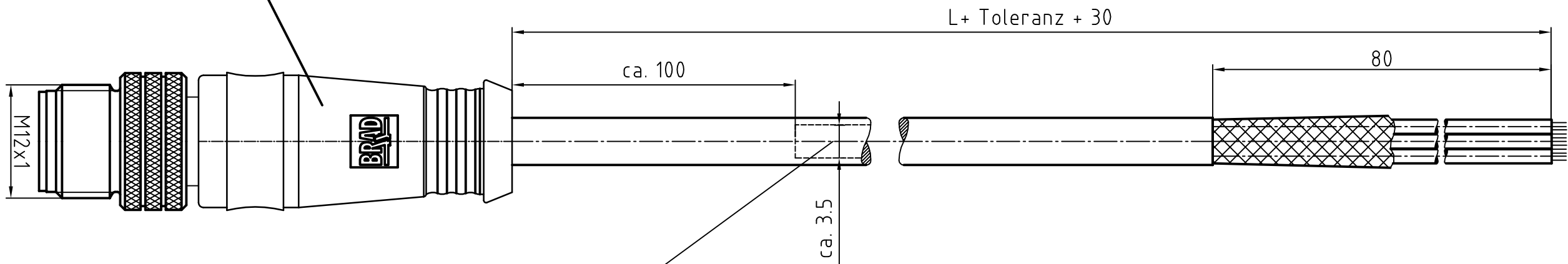
D

C

B

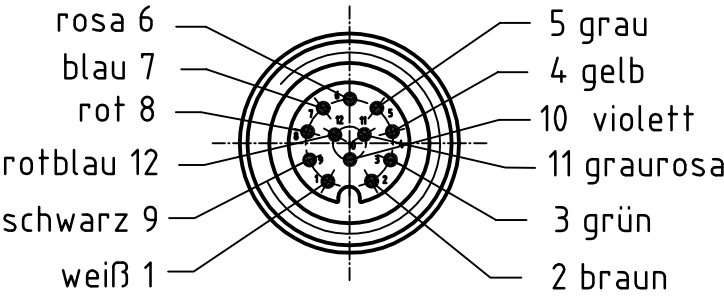
A

Overmold PUR see Table
Umspritzung PUR siehe Tabelle



Cable printing:
Kabelbedruckung: Woodhead Connectivity GmbH 80CS06P45MXXX X..
Prod. Date as defined in
Fertigungsdatum gemäß
WN 00001 aufdrucken

Mating Side
Male Cable Connector shielded/
Steckseite
Kabelstecker geschirmt
12-Pol



Allgemeine Kennwerte General Characteristics			Norm Standard	
Polzahl Kontaktanordnung		Number of contacts Contact configuration	IEC 947-5-2	12
Bemessungsspannung		Rated Voltage	IEC 664	30V AC / DC
Verschmutzungsgrad		Pollution Degree	IEC 664	3
Betriebsstrom		Current carrying capacity	IEC 512-3 Test 5 b	1,5A
Durchgangswiderstand		Contact Resistance	IEC 512-2 Test 2 a	< 5m0hm
Bemessungsstoßspannung		Rated Impulse Withstand Voltage	IEC 664	0,8 kV
Prüfspannung		Test Voltage	IEC 60512-2 Test 4 A	0,5 kV / 60 sec
Isolationswiderstand		Insulation Resistance	IEC 512-2 Test 3 A	> 10 G0hm
IP-Schutzart		IP Degree of Protection	IEC 529	IP 67
Stiftdurchmesser		Pin Diameter		0,6 mm
Werkstoffe	Kontakte	Materials	Contacts	Kupferlegierung / copper alloy
	Kontaktoberfläche		Contacts Plating	Au/Ni
	Kontaktträger		Dielectric Material	PUR
	Gehäuse (Umspritzung)		Housing (Overmold)	PUR
	Dichtung (O-Ring)		Gaskets (O-Ring)	VITON
	Schraubhülse		Screw Sleeve	CuZn (brass) mit Ni-Oberfläche Nickel Plated
Anschlussart		Termination		Crimp
Brennbarkeit	Kontaktträger	Flammfähigkeit	Inserts	UL 94 HB
	Gehäuse (Umspritzung)		Housing (Overmold)	
	Leitung / Kabel		Cable	
Mechanische Lebensdauer		Mechanical Operation		100 Steckzyklen/Mating Cycles
Temperaturbereich		Temperature Range		IEC 60668-1 -25°C / +90°C

SAP-Nummer	Engineering Nr.:	Umspritzungsfarbe	Länge
SAP-Nummer		Overmold Color	Length
1200695022	80CS06P45M020	yellow	2M
1200695023	80CS06P45M040	yellow	4M
1200695024	80CS06P45M050	yellow	5M
1200695025	80CS06P45M060	yellow	6M
1200695026	80CS06P45M100	yellow	10M
1200695061	80CS06P45M020G	black	2M
1200695062	80CS06P45M040G	black	4M
1200695063	80CS06P45M050G	black	5M
1200695064	80CS06P45M060G	black	6M
1200695065	80CS06P45M100G	black	10M

Toleranzen Maß L: sichtbare Kabellänge bei M8 , M12 und M12U	
von 0 bis 0.6 m:	±10 mm
über 0.6 bis 1 m:	+30 / -10 mm
über 1 bis 5 m:	±25 mm
über 5 bis 20 m:	±30 mm
über 20 m:	±50 mm

BU/ BLUE WH/WHITE GN/ GREEN GY/ GREY PK/ PINK YE/ YELLOW RD/ RED BK/ BLACK VT/ VIOLET BN/ BROWN	bl/blau ws/weiß gn/ grün gr/ grau rs/ rosa ge/ gelb rt/ rot sw/schwarz vi/ violett bn/ braun
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DESCRIPTION EC NO: WEU2009-0137 DRWN: LSTEMMLE 2008/07/24 CHKD: LS 2008/11/06 APPR: USAEUFFE 2008/11/26	DESCRIPTION	QUALITY SYMBOLS ▽ = 0 C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM		SCALE 2:1	DESIGN UNITS METRIC	 FIRST ANGLE PROJECTION		
				mm	INCH	DRAWN BY LS	DATE 2008/07/24	M12S-12P-ST-PUR/SCHIRM-XM ----			
			4 PLACES	±----	±----	CHECKED BY US	DATE 2008/11/06				
			3 PLACES	±----	±----	APPROVED BY ----	DATE ----	molex MOLEX INCORPORATED			
			2 PLACES	±0.05	±----						
			1 PLACE	±0.1	±----						
			ANGULAR ± --- °		MATERIAL NO. see table		DOCUMENT NO. SD-80CS06P45MXXX		SHEET NO. 1 OF 1		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

(...) Dim. for information
(...) Informationsmaß