

VOLTAGE RATING : 30C AC/DC
AMPERAGE RATING : 1.5A
INSULATION RESISTANCE : $10^8 \Omega$ MIN.
MATING CYCLES : MIN. 100

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

PART No. MATRIX

W O C S O 7 P 4 5 X X X X X

W0 = M12 UL
single ended

Poles:
C = 12 Poles

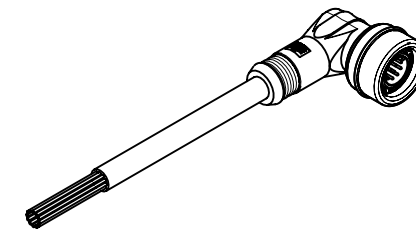
Heads style:
S07 = Male 90°

Cable:
P45 = PUR BK
12x26AWG

Units:
M = Meter

Length
Examples:
005 = 0.5 m
010 = 1 m
050 = 5 m
100 = 10 m
150 = 15 m

Moulding color
Blank = YE
A = Grey
G = Black
Y =Yellow
H=2xI/D Carrier



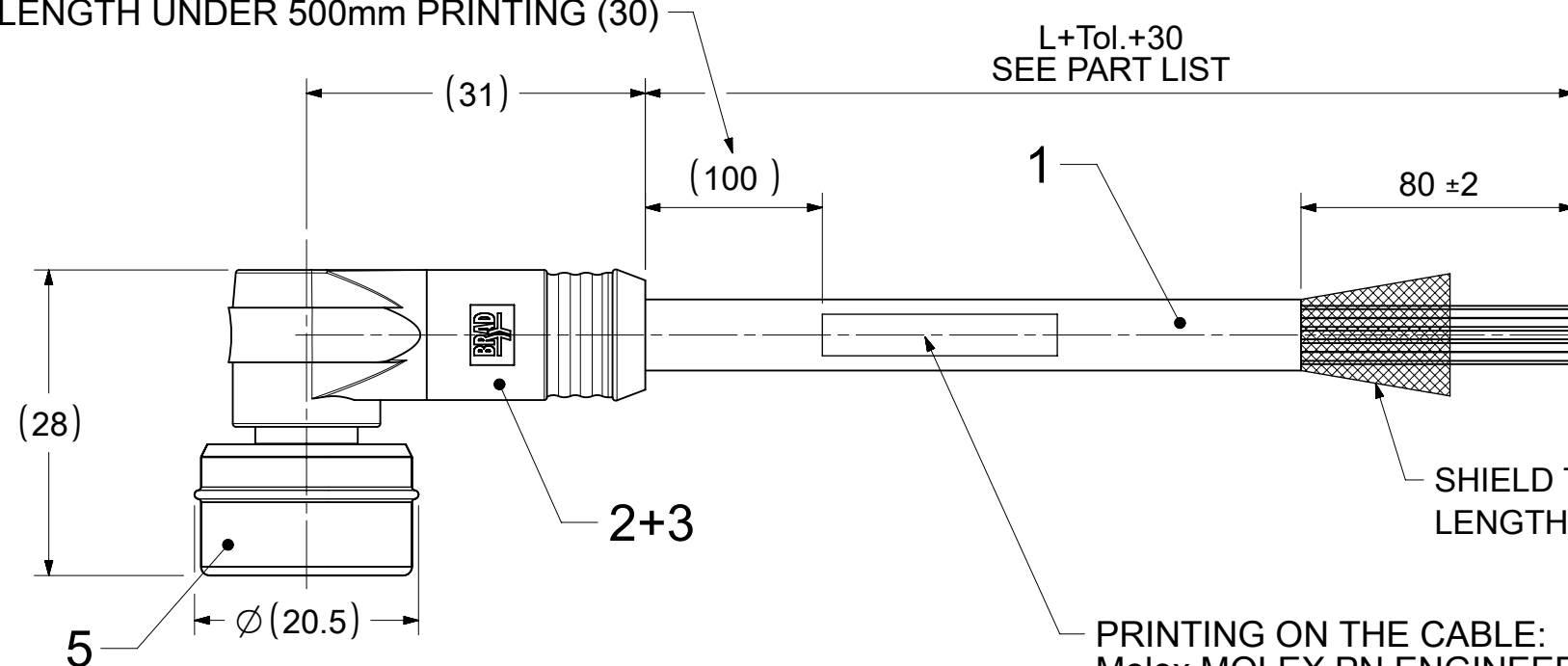
SCALE 1:2

WIRING DIAGRAM

PIN 1		WH
PIN 2		BN
PIN 3		GN
PIN 4		YE
PIN 5		GY
PIN 6		PK
PIN 7		BU
PIN 8		RD
PIN 9		BK
PIN 10		VT
PIN 11		GY/PK
PIN 12		RD/BU

SHIELD CONNECTED TO THE HOUSING

IF LENGTH UNDER 500mm PRINTING (30)

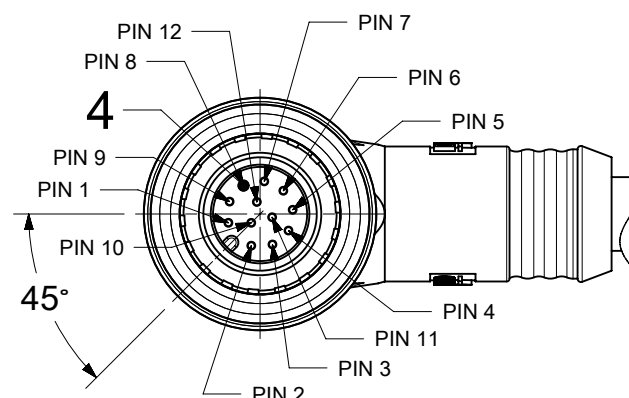


- SHIELD THE SAME LENGTH AS THE WIRES

– PRINTING ON THE CABLE:
Molex MOLEX PN ENGINEERING No MXYYYWW

— SEE PART LIST

— DATA ACCORDING
TO WN-00001



VIEW FROM THE FRONT SIDE

PART LIST

MOLEX P/N	ENG No.	L+Tol.[mm]
1200835173	W0CS07P45M030	3000±25

BOM

5	1	ULTRLOCK MALE ASSEMBLY	-	-
4	12	MALE CONTACT	BRASS	Au over Ni-PLATED
3	1	SLEEVE SHEILD MALE	BRASS	Ni-PLATED
2	-	OVERMOULD	TPU	BK/YE
1	-	CABLE	PUR	BLACK
ITEM	QTY.	DESCRIPTION	MATERIAL	COLOR/FINISH

DOCUMENT STATUS	P1	RELEASE DATE	2022/03/25	07:18:05
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FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DIMENSION UNITS		SCALE	
mm		3:2	
GENERAL TOLERANCES (UNLESS SPECIFIED)		CURRENT REV DESC:	
ANGULAR TOL ± 1.0°		EC NO: 700705	
4 PLACES ±		DRWN: SSM 2022/03/17	
3 PLACES ±		CHK'D: RSILLER 2022/03/25	
2 PLACES ± 0.05		APPR: RSILLER 2022/03/25	
1 PLACE ± 0.3		INITIAL REVISION:	
0 PLACES ± 0.5		DRWN: SSM 2022/03/17	
DIVISIONAL SYMBOLS		APPR: RSILLER 2022/03/25	
DRAWING WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	
		DRAWING	
		SERIES	
		MATERIAL NUMBER	
		CUSTOMER	
		SHEET NUMBER	
		A3-SIZE	
		120083	
		SEE PART LIST	
		GENERAL MARKET	
		1 OF 1	

F

E

D

C

B

A

10

9

8

7

6

5

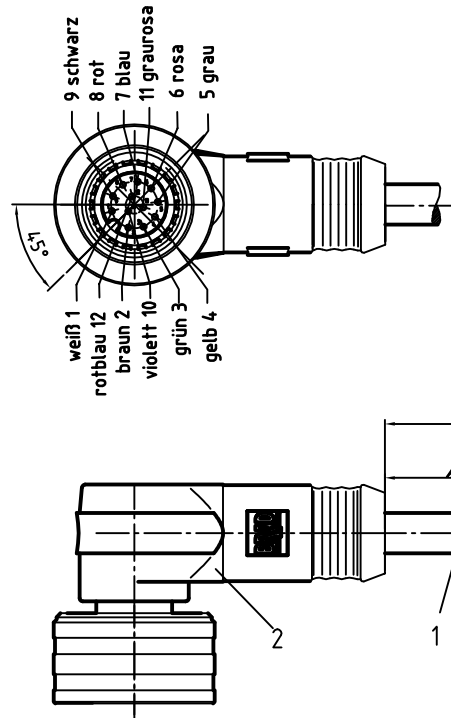
4

3

2

1

MATING SIDE
MALE CABLE CONNECTOR SHIELDED
Steckseite
Kabelstecker U-Lock geschirmt
12-Pol



SAP-NUMBER	ENGINEERING NO.	DESCRIPTION	OVERMOLD COLOR	LENGTH
SAP-Nummer	Engineering Nr.	Beschreibung	Umspritzungsfarbe	Länge
1200835165	120083-5165	M12-AU-12P-M-90-SHD-SE-PUR-1M	BLACK/schwarz	1M
1200835166	120083-5166	M12-AU-12P-M-90-SHD-SE-PUR-2M	BLACK/schwarz	2M
1200835173	120083-5173	M12-AU-12P-M-90-SHD-SE-PUR-3M	BLACK/schwarz	3M
1200835167	120083-5167	M12-AU-12P-M-90-SHD-SE-PUR-4M	BLACK/schwarz	4M
1200835168	120083-5168	M12-AU-12P-M-90-SHD-SE-PUR-5M	BLACK/schwarz	5M

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	< 5mOhm
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 GOhm
IP-Schutzart		IP Degree of Protection	IEC 529	IP 67
Stiftdurchmesser		Pin Diameter		0,6 mm
Werkstoffe Materials	Kontakte	Contacts		Kupferlegierung / copper alloy
	Kontakttoberfläche	Contacts Plating		Au/Ni
	Kontaktträger	Dielectric Material		PUR
	Gehäuse (Umspritzung)	Housing (Overmold)		PUR
	Dichtung (O-Ring)	Gaskets (O-Ring)		FPM
	Schiebehülse	Push Sleeve		CuZn (brass) mit Ni-Oberfläche Nickel Plated
Anschlussart		Termination		Crimp
Brenn- barkeit Flamm- ability	Kontaktträger	Inserts	UL 94	HB
	Gehäuse (Umspritzung)	Housing (Overmold)		HB
	Leitung / Kabel	Cable		HFT (UL); FT2 (CSA)
Mechanische Lebensdauer		Mechanical Operation		100 Steckzyklen/Mating Cycles
Temperaturbereich		Temperature Range	IEC 60668-1	-25°C / +80°C

TOLERANCES FOR CABLE TREATMENT UNLESS OTHERWISE STATED WN 00004
Toleranzen für Kabelbearbeitung, wenn nicht anders angegeben, nach WN 00004

(...) DIM. FOR INFORMATION
(...) Informationsmaß

PROD. DATA ACCORDING IN
Fertigungsdatum gemäß
WN 00001

BASICALLY COLORE
(TRANSLATION)
Prinzipielle Farbtabelle
(Übersetzung)

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: WEU2009-0473 DRWN: LSTEMMLE 08.07.09 CHKD: RE 2009/07/08 APPR: JKOLB 2009/07/17		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM		SCALE 1:1	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION			
				 = 0  = 0		mm	INCH	DRAWN BY	DATE	M12-AU-12P-M-90-SHD SE-PUR-XM ----				
					4 PLACES	±---	±---	LS	2009/07/08					
					3 PLACES	±---	±---	CHECKED BY	DATE	MOLEX INCORPORATED				
					2 PLACES	±0.05	±---	JKO	2009/07/08					
1 PLACE	±0.1	±---	APPROVED BY	DATE	 MOLEX INCORPORATED									
ANGULAR ± --- °			JKO	2009/07/08										
1		REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
							see Table		SD-120083-017		1 OF 1			
							SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						