

C L12FG-xM-PUR

Versorgungs- und I/O-Leitung für Aktoren und Sensoren, geschirmte Ausführung, schleppkettene geeignet, speziell für Robotik-Applikationen

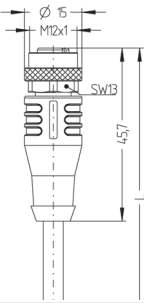
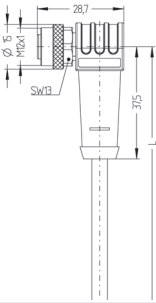
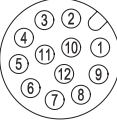


Vibrationsbeständig, schleppkettene geeignet, robotikgeeignet, ölbeständig, säure- u. laugenbeständig, ozon- u. UV-beständig, hydrolysefest, seewasserbeständig, flammwidrig, schweißfunkenfest, recyclingfähig, RoHS-konform, halogenfrei, silikonfrei, LABS-frei



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ALLGEMEINE DATEN (TYP.)	
Typ	Versorgungs- und I/O-Leitung für Aktoren und Sensoren
Länge	2 m / 5 m / 10 m / 20 m / 30 m
Anschluss	M12
Polzahl	12
TECHNISCHE DATEN (TYP.)	
Art des Steckerkontaktes	M12 Buchse
Kodierung der Steckverbinder	gerade / 90 ° gewinkelt
Mechanische Lebensdauer	A
Außendurchmesser Leitung	≥ 100 Steckzyklen
Leiteranzahl x Leiterquerschnitt	6 mm
Schirmung	12 x 0.14 mm ²
Anzugsdrehmoment	✓ 360 ° mit Kontaktierung
	1 Nm
UMGEBUNGSBEDINGUNGEN (TYP.)	
Schleppkettene geeignet	✓
Robotikgeeignet	✓
Biegezyklen [Mio.]	> 2
Torsionszyklen [Mio.]	< 1
Temperaturbereich fest / bewegt / Schleppkette	-40 ... +90 °C / -30 ... +90 °C / -25 ... +60 °C
Biegeradius fest / bewegt	5 x Ø / 10 x Ø
Schutzart montiert	IP 65, IP 67, IP 68
Verschmutzungsgrad	3
WERKSTOFFE (TYP.)	
Material Gehäuse, Griffkörper	TPU
Material Kontaktträger	TPU
Kontaktmaterial Oberflächenveredelung	CuZn, vergoldet
Material (Mutter) Verschraubung	CuZn, vernickelt
Material Dichtung	FPM / FKM
Steckerfarbe (Gehäusefarbe)	schwarz
Leitungsmaterial	PUR
Leitungsfarbe	schwarz
Halogenfrei	✓
ELEKTRISCHE DATEN (TYP.)	
Nennstrom (40 °C)	1,5 A
Nennspannung	≤ 300 V
Bemessungsspannung	30 V
Isolationswiderstand	≥ 10 ⁸ Ω
Durchgangswiderstand	≤ 5 mΩ

MASSBILD			PINBELEGUNG	
M12 gerade	M12 90 ° gewinkelt		M12	
				1 = BN 2 = BU 3 = WH 4 = GN 5 = PK 6 = YE 7 = BK 8 = GY 9 = RD 10 = VT 11 = GY/PK 12 = RD/BU

BESTELLBEZEICHNUNG	ARTIKEL-NR.	BESCHREIBUNG	LEITUNGSLÄNGE
C L12FG-2m-PUR	902-51801	M12, 12-polig, gerade, A-codiert	2 m
C L12FG-5m-PUR	902-51796		5 m
C L12FG-10m-PUR	902-51797		10 m
C L12FG-S-20m-PUR	902-51805		20 m
C L12FG-S-30m-PUR	902-51845		30 m
C L12FW-2m-PUR	902-51798	M12, 12-polig, 90 ° gewinkelt, A-codiert	2 m
C L12FW-5m-PUR	902-51799		5 m
C L12FW-10m-PUR	902-51800		10 m
C L12FW-S-20m-PUR	902-51821		20 m
C L12FW-S-30m-PUR	902-51846		30 m

Data sheet

C L12FG-xM-PUR

Supply and I/O lines for actuators and sensors, shielded, suitable for drag chains and robotic applications

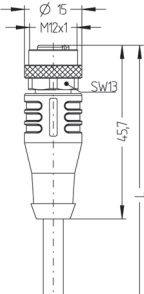
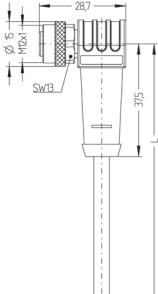
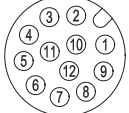


Vibration resistant, suitable for drag chains and robotic applications, oil-resistant, acid- and alkali-resistant, ozon and UV-resistant, hydrolysis resistant, sea water resistant, flame retardant, welding spark proof, recyclable, RoHS compliant, halogen-free, silicone-free, LABS-free



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GENERAL DATA (TYP.)	
Type	Supply and I/O lines for actuators and sensors
Length	2 m / 5 m / 10 m / 20 m / 30 m
Connection	M12
Number of poles	12
TECHNICAL DATA (TYP.)	
Type of plug contact	M12 female
	Straight / 90 ° angled
Coding of the connectors	A
Mechanical life	≥ 100 mating cycles
Outer diameter cable	6 mm
Number of conductors x cross section	12 x 0.14 mm ²
Shielding	✓ 360 ° with bonding
Tightening torque	1 Nm
ENVIRONMENTAL CONDITIONS (TYP.)	
Suitable for drag chains	✓
Suitable for Robotics	✓
Bending cycles [Mio.]	> 2
Torsion [Mio]	< 1
Temperature range fixed / moved / drag chain	-40 ... +90 °C / -30 ... +90 °C / -25 ... +60 °C
Bending radius fixed / moved	5 x Ø / 10 x Ø
Degree of protection (IP) mounted	IP 65, IP 67, IP 68
Pollution degree	3
MATERIALS (TYP.)	
Material housing, handle body	TPU
Material contact carrier	TPU
Contact material surface finishing	CuZn, gold plated
Material (nut) screw connection	CuZn, nickel plated
Material sealing	FPM / FKM
Connector color (housing color)	Black
Material cable	PUR
Cable color	Black
Halogen-free	✓
ELECTRICAL DATA (TYP.)	
Rated current (40 °C)	1.5 A
Nominal voltage	≤ 300 V
Rated voltage	30 V
Insulation resistance	≥ 10 ⁸ Ω
Contact resistance	≤ 5 mΩ

DIMENSION DRAWING			PIN ASSIGNMENT	
M12 straight	M12 90 ° angled		M12	
				1 = BN 2 = BU 3 = WH 4 = GN 5 = PK 6 = YE 7 = BK 8 = GY 9 = RD 10 = VT 11 = GY/PK 12 = RD/BU

PART CODE	ARTICLE NUMBER	DESCRIPTION	CABLE LENGTH
C L12FG-2m-PUR	902-51801	M12, 12-pin, straight, A-coded	2 m
C L12FG-5m-PUR	902-51796		5 m
C L12FG-10m-PUR	902-51797		10 m
C L12FG-S-20m-PUR	902-51805		20 m
C L12FG-S-30m-PUR	902-51845		30 m
C L12FW-2m-PUR	902-51798	M12, 12-pin, 90 ° angled, A-coded	2 m
C L12FW-5m-PUR	902-51799		5 m
C L12FW-10m-PUR	902-51800		10 m
C L12FW-S-20m-PUR	902-51821		20 m
C L12FW-S-30m-PUR	902-51846		30 m