

RSP46PLB-1/TXL

Supply Cable - M12 Power – Connection Cable



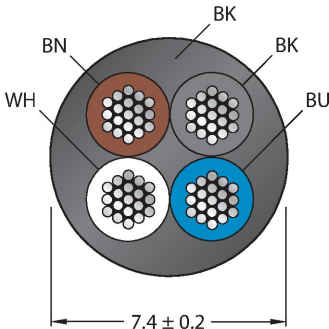
Technical data

Type	RSP46PLB-1/TXL
ID	100031103
Connector A	Male, M12 × 1, Straight, L-coded
Number of pins	4
Contacts	Copper-nickel, CuNi, Gold-plated
Contact carriers	Plastic, PBT GF, Black
Connector body	Plastic, TPE, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Tightening torque (range)	0.5 ... 0.6 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP65, IP67, IP69K, Only in screwed condition
Cable	
Cable diameter	Ø 7.4 mm ±0.20
Cable length	1 m
Cable jacket	PUR, Black
Core insulation	PP
Core cross-section	4 x 1.5 mm ²
Core colors	BN, WH, BU, BK
Electrical properties at +20 °C	
Rated voltage	50 V _{AC} /60 V _{DC}
Current	16 A
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 4 x Ø
Bending radius (flexible use)	≥ 7 x Ø

Features

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- M12 male connector, L-coded, straight, 4-pin
 - Jacket material: PUR
 - Jacket color: black
 - Highly resistant to oils, coolants, lubricants and emulsions
 - Suitable for use in drag chains
 - Resistant to vibrations and shocks
 - Flame retardant
 - Halogen-free
 - RoHS compliant
 - UL approval
 - Protection class: IP65, IP67, IP69K
 - Cable length: 1.0 m

Cable Cross-Section



Contact assignment

Technical data

Bending cycles	≥ 10 million
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Torsional stress	± 30 °/m
Ambient temperature (fixed)	-40...+80 °C
Ambient temperature (mobile)	-30...+80 °C
Ambient temperature (drag chain)	-20...+60 °C
Qualified for drag chain use	yes
Halogen-free	yes
Oil-resistant	yes
Flame-retardant	yes
Approvals	cULus



Circuit Diagram



Derating Curve



Accessories

Dimension drawing	Type	ID	
	LABEL-HOLDER-FLEX-PVC	100048170	PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package
	VH2-M12L-M5-2F5	100028587	Small h-splitter, M12 Power, L-coded, 4-pin + FE
	FW-ERKPM0514-PL-S-0813	100008139	Field-wireable female connector, M12 Power, L-coded, straight, 4-pin + FE, screw terminal connection, cable feedthrough 8.0 to 13 mm, core cross-section/terminal capacity 1.5 to 2.5 mm ² , plastic housing, metal retaining screw
	VH3-M12L-M5-3F5	100028591	Large H-splitter, M12 Power, L-coded, 4-pin + FE
	VT2-M12L-M5-2F5	100028579	T-splitter, M12 Power, L-coded, 4-pin + FE