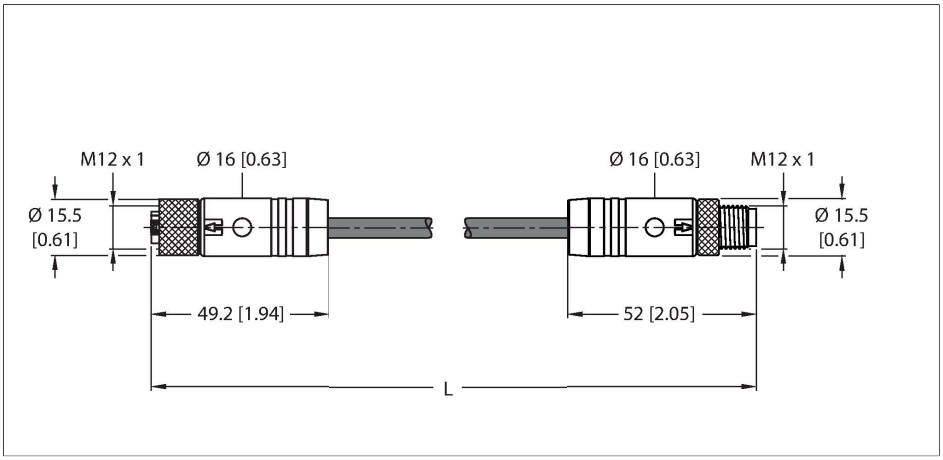
RKP46PLB-8-RSP46PLB/TXL
Supply Cable — M12 Power – Extension Cable



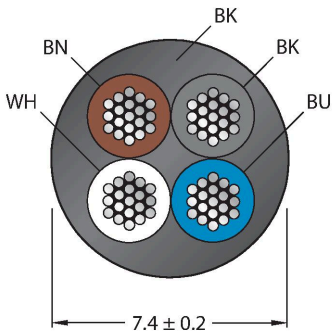
Technical data

Type	RKP46PLB-8-RSP46PLB/TXL
ID	100028670
Connector A	Female, 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
Seal	Plastic, FPM/FKM
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
Connector B	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/retaining screw	Brass, CuZn, Nickel-plated
Tightening torque	0.5 … 0.6 Nm (observe max. torque of mating connector!)
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class	IP65, IP67, IP69K, Only when screwed together

Features

- M12 female connector, L-coded, straight, 4-pin
- 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: 8.0 m

Cable Cross-Section



Contact assignment

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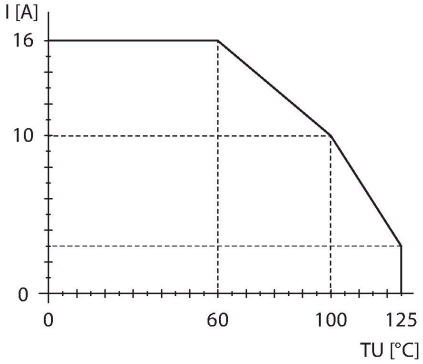
Technical data

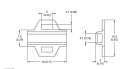
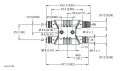
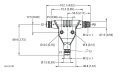
Cable	
Cable diameter	Ø 7.4 mm ±0.20
Cable length	8 m
Cable jacket	PUR, Black
Core insulation	PP
Core cross-section	4 x 1.5 mm²
Core colors	BN, WH, BU, BK
Electrical properties at +20 °C	
Rated voltage	50 V_{AC}/60 V_{DC}
Current	16 A
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 4 x Ø
Bending radius (flexible use)	≥ 7 x Ø
Bending cycles	≥ 10 million
Admissible acceleration	max. 5 m/s²
Admissible travel path, horizontal	5 m (at 5 m/s²)
Torsional stress	± 30 °/m
Ambient temperature range (stationary)	-40…+80 °C
Ambient temperature range (In motion)	-30…+80 °C
Ambient temperature during drag chain operation	-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
	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

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