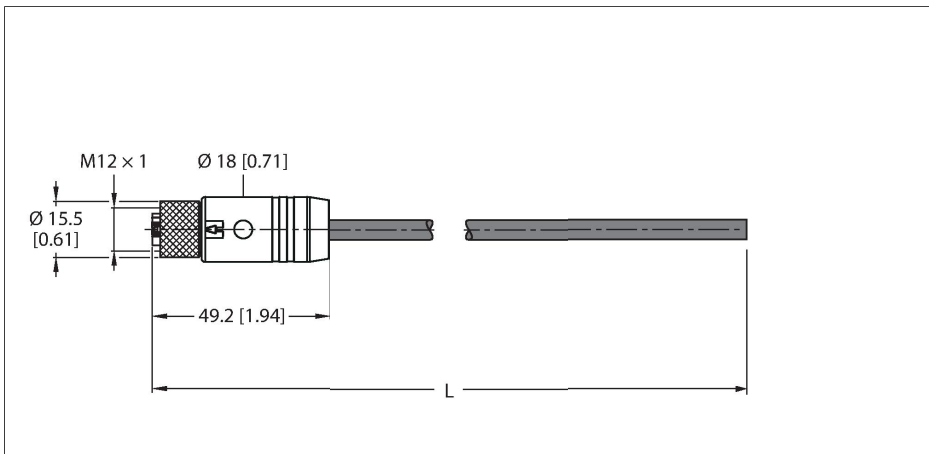


RKP54PLB-1/TXG

Supply Cable — M12 Power – Connection Cable



Technical data

Type	RKP54PLB-1/TXG
ID	100003308
Connector A	Female, M12 × 1, Straight, L-coded
Number of Pins	4+FE
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

Cable	
Cable diameter	Ø 9.8 mm ±0.20
Cable length	1 m
Cable jacket	PUR, Gray
Core insulation	PP
Core cross-section	5 x 2.5 mm ²
Core colors	BN, WH, BU, BK, PK
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

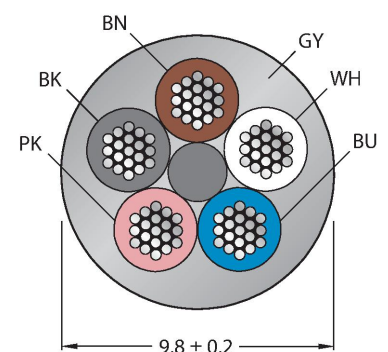


Features



- M12 power cable, L-coded, female connector, straight, 5-pin (4+FE)
- Jacket material: PUR
- Jacket color: gray
- 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

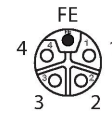
Cable Cross-Section



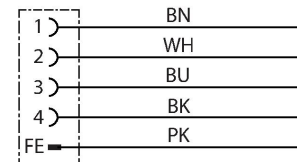
Contact assignment

Technical data

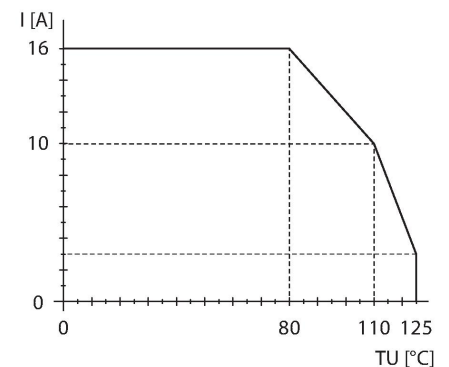
Bending radius (flexible use)	$\geq 7 \times \varnothing$
Bending cycles	≥ 10 million
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Torsional stress	± 30 °/m
Ambient temperature range (stationary)	-40...+80 °C
Ambient temperature range (In motion)	-30...+80 °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
	FW-ERSPM0514-PL-S-0813	100008140	Field-wireable male 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