

PKW4M-1-PSW4M/TRL

Actuator and Sensor Cable Suitable for Use with Robots – Extension Cable



Technical data

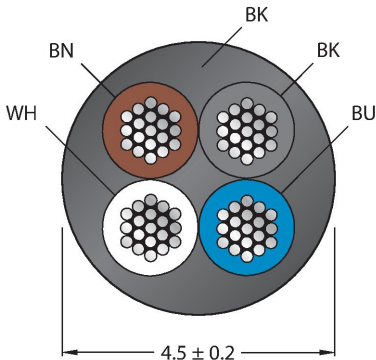
Type	PKW4M-1-PSW4M/TRL
ID	6543164
Connector A	Female, M8 × 1, Angled
Number of pins	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Tightening torque (range)	0.5 ... 0.6 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP69K, Only in screwed condition
Connector B	Male, M8 × 1, Angled
Number of Pins	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, 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	IP67, IP69K, Only when screwed together

Features



- Female M8, angled, 4-pin
- Male M8, angled, 4-pin
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Torsion resistant ($\pm 360^\circ/\text{m}$)
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- Flame retardant
- Resistant to hydrolysis and microbes
- Protection class: IP67, IP69K
- Cable length: 1.0 m

Cable Cross-Section



Contact assignment

Technical data

Cable	
Cable diameter	Ø 4.5 mm ±0.20
Cable length	1 m
Cable jacket	PUR, Black
Core insulation	PP
Core cross-section	4 x 0.34 mm²
Arrangement of strands	42 x 0.1 mm
Core colors	BN, WH, BU, BK
Electrical properties at +20 °C	
Rated voltage	50 V _{AC} /60 V _{DC}
Test voltage	2000 V
Current	4 A
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Bending cycles	≥ 10 million
Admissible travel path, horizontal	5 m (at 5 m/s²)
Admissible travel path, vertical	2 m (at 5 m/s²)
Torsional stress	± 360 °/m
Torsion cycles	Max. 5 million
Torsion speed	20 Cycles/min
Ambient temperature (fixed)	-50...+80 °C
Ambient temperature (mobile)	-25...+80 °C
Halogen-free	Acc. to IEC 60754-1-2
LABS free	Acc. to PV3.10.7
Oil-resistant	Acc. to EN 60811-2-1
Flame-retardant	Acc. to IEC 60332-2-2, FT2
Approvals	cULus CE UKCA



Circuit Diagram

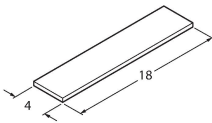


Accessories

TORQUE-WRENCH-SET-AS	6936170	BLANK-LABEL-FOR-CORDSETS-TEL-TXL	6936206
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Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)

Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant



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