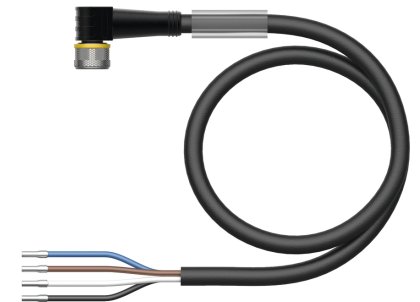
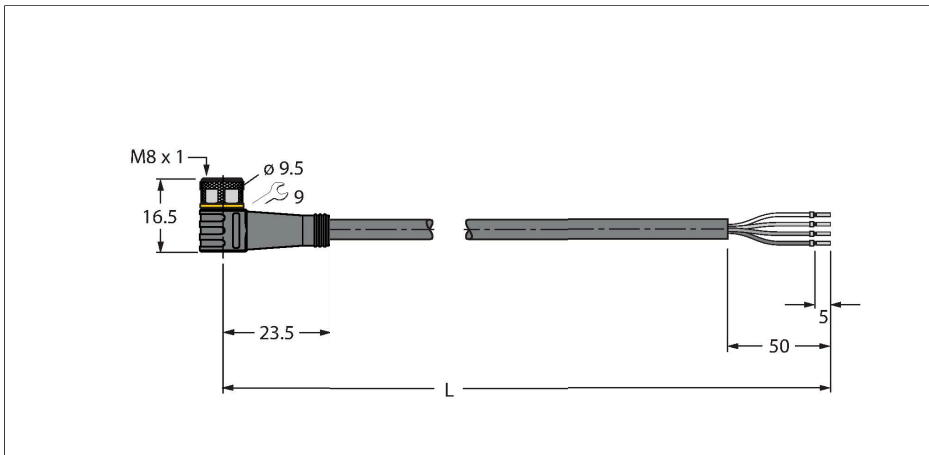


# PKW4M-10/TRL

## Actuator and Sensor Cable Suitable for Use with Robots – Connection Cable



### Technical data

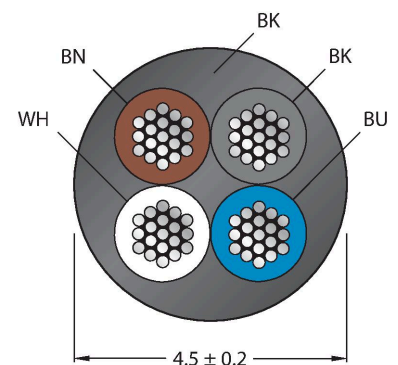
Type	PKW4M-10/TRL
ID	6543145
Connector A	Female, M8 × 1, Angled
Number of Pins	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Tightening torque (range)	0.5 ... 0.6 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP69K, Only in screwed condition
<b>Cable</b>	
Cable diameter	Ø 4.5 mm ±0.20
Cable length	10 m
Cable jacket	PUR, Black
Core insulation	PP
Core cross-section	4 x 0.34 mm <sup>2</sup>
Arrangement of strands	42 x 0.1 mm
Core colors	BN, WH, BU, BK
<b>Electrical properties at +20 °C</b>	
Rated voltage	50 V <sub>AC</sub> /60 V <sub>DC</sub>
Test voltage	2000 V
Current	4 A

### Features



- Female M8, angled, 4-pin
- Jacket material: PUR
- Jacket color: black
- Torsion resistant (± 360°/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: 10 m

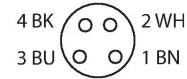
### Cable Cross-Section



### Contact assignment

## Technical data

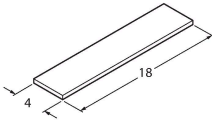
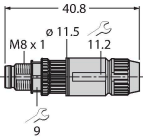
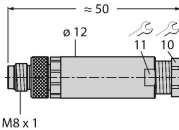
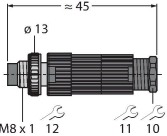
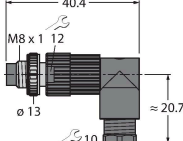
Mechanical and chemical properties	
Bending radius (stationary installation)	$\geq 5 \times \varnothing$
Bending radius (flexible use)	$\geq 10 \times \varnothing$
Torsional stress	$\pm 360 \text{ }^\circ/\text{m}$
Torsion cycles	Max. 5 million
Torsion speed	20 Cycles/min
Ambient temperature (fixed)	-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

<p><b>TORQUE-WRENCH-SET-AS</b> 6936170</p> <p>Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)</p>	<p><b>BLANK-LABEL-FOR-CORDSETS-TEL-TXL</b> 6936206</p> <p>Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant</p> 
<p><b>HAS5141-0</b> 6905403</p> <p>Field-wireable male connector, M8 × 1, straight, 4-pin, insulation piercing connection, cable feedthrough 2.5 to 5.1 mm, core cross-section/terminal capacity 0.14 to 0.34 mm<sup>2</sup>, plastic housing, metal nut</p> 	<p><b>BS5143-0</b> 6901013</p> <p>Field-wireable male connector, M8 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 3.5 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm<sup>2</sup>, plastic housing, metal retaining screw</p> 
<p><b>HS5141-0</b> 6902730</p> <p>Field-wireable male connector, M8 × 1, straight, 4-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm<sup>2</sup>, plastic housing, metal nut</p> 	<p><b>HS5241-0</b> 6902830</p> <p>Field-wireable male connector, M8 × 1, angled, 4-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm<sup>2</sup>, plastic housing, metal nut</p> 

FW-PRSPM0420-SA-S-0406

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Field-wireable male connector, M8 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 4.0 to 5.5 mm, core cross-section/terminal capacity 0.14 to 0.5 mm<sup>2</sup>, plastic housing, metal retaining screw



## 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