

WKC4.5T-P7X3.1-5/TXO

Actuator and Sensor Cable, PUR – Connection Cable

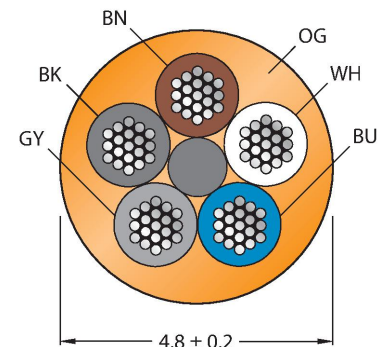


Features

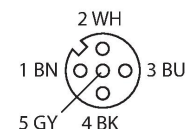


- Female M12, angled, 5-pin
- With 3-color LED (PNP, red, yellow, green)
- Jacket material: PUR
- Jacket color: orange
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 5.0 m

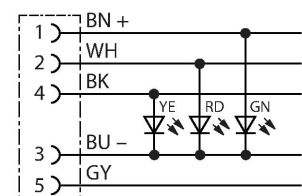
Cable Cross-Section



Contact assignment



Circuit Diagram



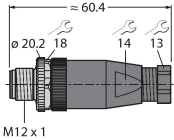
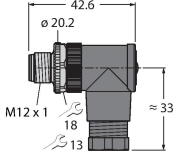
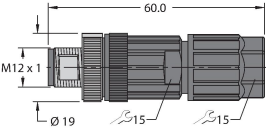
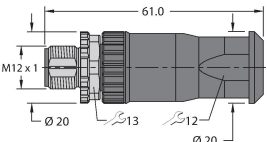
Technical data

Type	WKC4.5T-P7X3.1-5/TXO
ID	100000275
Connector A	Female, M12 × 1, Angled, A-coded
Number of Pins	5
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Translucent
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
LED display	triple LED
Display operating voltage	LED, Green
Display switch state	LED, Yellow/red
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP69K, Only in screwed condition
Cable	
Cable diameter	Ø 4.8 mm ±0.20
Cable length	5 m
Cable jacket	PUR, Orange
Core insulation	PP
Core cross-section	5 x 0.34 mm²
Arrangement of strands	42 x 0.1 mm
Core colors	BN, WH, BU, BK, GY
Electrical properties at +20 °C	
Rated voltage	30 V _{DC}
Test voltage	2000 V
Current	4 A

Technical data

Insulation resistance	> 30.5 MΩ/km
forward resistance	max. 57 Ω/km
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Bending cycles	≥ 5 million
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 180 °/m
Ambient temperature range (stationary)	-50...+80 °C
Ambient temperature range (In motion)	-25...+80 °C
Ambient temperature during drag chain operation	-25...+60 °C
Approvals	cULus

Accessories

TORQUE-WRENCH-SET-AS	6936170	Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)
BLANK-LABEL-FOR-CORDSETS-TEL-TXL	6936206	Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant
		
BS8151-0	6904611	Field-wireable male connector, M12 × 1, straight, 5-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm ² , plastic housing, metal retaining screw
		
BS8251-0	6904612	Field-wireable male connector, M12 × 1, angled, 5-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm ² , plastic housing, metal retaining screw
		
FW-ERSPM0526-SA-P-0408	100002535	Field-wireable male connector, M12 × 1, straight, 5-pin, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm ² , plastic housing, metal retaining screw
		
FW-ERSPM0516-SA-S-0408	100002289	Field-wireable male connector, M12 × 1, straight, 5-pin, screw terminal connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.25 to 1.5 mm ² , plastic housing, metal retaining screw
		

FW-EWSPM0516-SA-S-0408

100002291



Field-wireable male connector, M12 × 1, angled, 5-pin, screw terminal connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.25 to 1.5 mm², 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