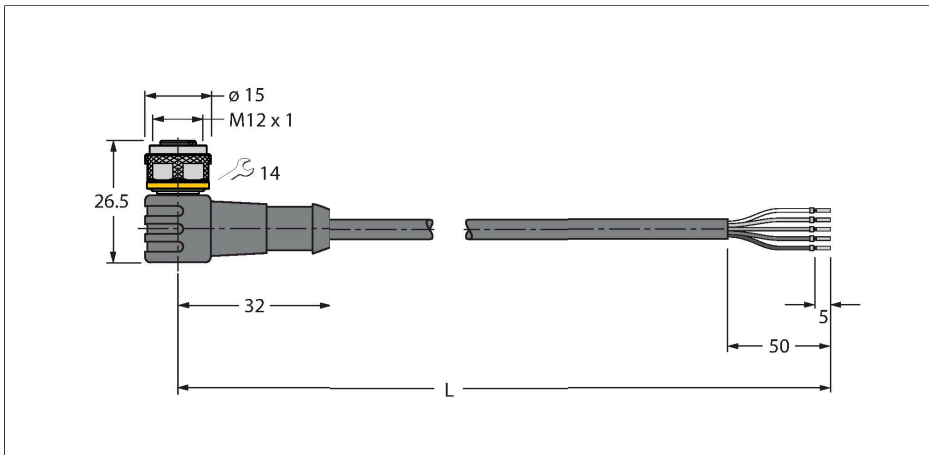


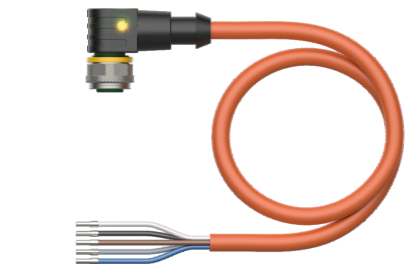
# WKC4.5T-P7X3.1-3/TXO3701

## Welding Spark Resistant Actuator and Sensor Cable – Connection Cable



### Technical data

|                                 |                                                                       |
|---------------------------------|-----------------------------------------------------------------------|
| Type                            | WKC4.5T-P7X3.1-3/TXO3701                                              |
| ID                              | 6635718                                                               |
| Remark to product               | Specification according to VASS requirements (version: February 2021) |
| 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 6 mm ±0.20                                                          |
| Cable length                    | 3 m                                                                   |
| Cable jacket                    | PUR, Orange                                                           |
| Core insulation                 | PP                                                                    |
| Core cross-section              | 5 x 0.34 mm <sup>2</sup>                                              |
| Core colors                     | BN, WH, BU, BK, GY                                                    |
| Electrical properties at +20 °C |                                                                       |
| Rated voltage                   | 30 V <sub>DC</sub>                                                    |

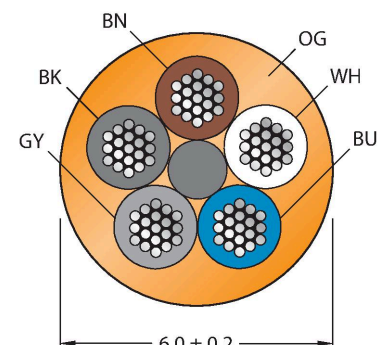


### Features



- Female M12, angled, 5-pin
- With 3-color LED (PNP, red, yellow, green)
- Jacket material: PUR
- Jacket color: orange
- Resistant to welding sparks
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL/CSA; IEC 60332-1-2; IEC 60332-2-2)
- Halogen free (acc. to EN 50267-2-1)
- Free from silicone, PVC and LABS (acc. to PV3.10.7)
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 3 m

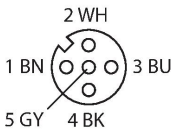
### Cable Cross-Section



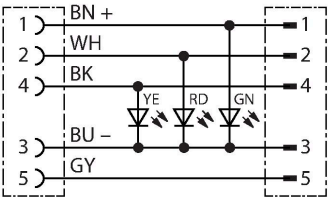
Technical data

|                                          |                   |
|------------------------------------------|-------------------|
| Test voltage                             | 2000 V            |
| Current                                  | 4 A               |
| forward resistance                       | max. 60 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. 10 m/s²      |
| Admissible travel path, horizontal       | 10 m (at 10 m/s²) |
| Admissible travel path, vertical         | 10 m (at 10 m/s²) |
| Admissible traversing speed              | 3.3 m/s           |
| Torsional stress                         | ± 180 °/m         |
| Ambient temperature (fixed)              | -40...+80 °C      |
| Ambient temperature (mobile)             | -25...+80 °C      |
| Ambient temperature (drag chain)         | -25...+60 °C      |
| Approvals                                | cULus             |

Contact assignment



Circuit Diagram



Accessories

TORQUE-WRENCH-SET-AS6936170

Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)

BS8151-06904611

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 mm², plastic housing, metal retaining screw

BS8251-06904612

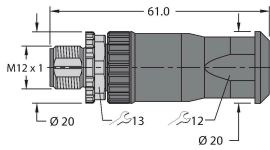
Field-wireable male connector, M12 × 1, angled, 5-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², plastic housing, metal retaining screw

FW-ERSPM0526-SA-P-0408100002535

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 mm², plastic housing, metal retaining screw

FW-ERSPM0516-SA-S-0408

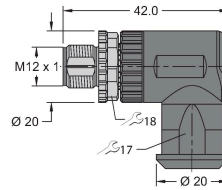
100002289



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<sup>2</sup>, 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 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 |