

# WSH4-10/TFG

## Food & Beverage Hygienic, TPE – Connection Cable

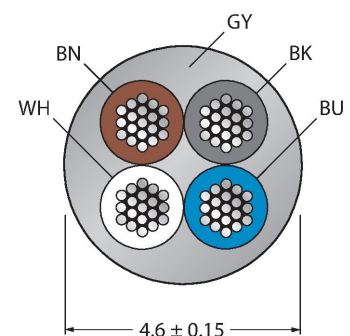


### Features

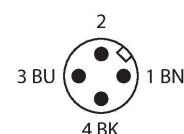


- M12 male connector, angled, 3-pin
- Stainless steel coupling nut/screw
- Sheath material: TPE-O
- Sheath color: light gray RAL 7035
- Qualified for drag chain use
- Resistant to chemicals and microbes
- Weatherproof
- Resistant to hydrolysis acc. to DIN EN 60068-2-78
- Flexible at low temperatures
- Free from silicone and PVC
- Halogen-free acc. to DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
- Approvals: Gost, Ecolab, FDA
- RoHS and REACH compliant
- Protection classes IP67, IP69K
- Cable length: 10 m

### Cable Cross-Section



### Contact assignment



### Technical data

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Type                                   | WSH4-10/TFG                                                |
| ID                                     | 6934401                                                    |
| Connector A                            | Male, M12 × 1, Angled                                      |
| Number of pins                         | 3                                                          |
| Contacts                               | Brass, CuZn, Gold-plated                                   |
| Contact carriers                       | Plastic, PP, Gray                                          |
| Connector body                         | Plastic, PP, Gray                                          |
| Coupling nut/screw                     | Stainless Steel, V4A                                       |
| Seal                                   | FPM/FKM                                                    |
| Tightening torque (range)              | 0.8 ... 1 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan                    | > 100 Mating cycles                                        |
| Pollution degree                       | 3                                                          |
| Protection class                       | IP65, IP67, IP68, IP69, Only in screwed condition          |
| <b>Cable</b>                           |                                                            |
| Cable diameter                         | Ø 4.6 mm ±0.15                                             |
| Cable length                           | 10 m                                                       |
| Cable jacket                           | TPE-O, Gray                                                |
| Core insulation                        | TPE-E                                                      |
| Core cross-section                     | 4 x 0.34 mm²                                               |
| Arrangement of strands                 | 42 x 0.1 mm                                                |
| Core colors                            | BN, BU, BK                                                 |
| <b>Electrical properties at +20 °C</b> |                                                            |
| Rated voltage                          | 250 V                                                      |
| Test voltage                           | 2000 V                                                     |
| Current                                | 4 A                                                        |

Technical data

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Insulation resistance                    | $\geq 10^8 \Omega$                |
| Nom. capacitance                         | 82 pF/m                           |
| Nom. Inductance                          | 0.73 mH/km                        |
| Mechanical and chemical properties       |                                   |
| Max. tensile strength (static)           | $\leq 50 \text{ N/mm}^2$          |
| Max. tensile strength (dynamic)          | $\leq 20 \text{ N/mm}^2$          |
| Bending radius (stationary installation) | $\geq 5 \times \varnothing$       |
| Bending radius (flexible use)            | $\geq 10 \times \varnothing$      |
| Bending cycles                           | $\geq 4 \text{ million}$          |
| Admissible acceleration                  | max. 5 m/s <sup>2</sup>           |
| Admissible travel path, horizontal       | 5 m (at 5 m/s <sup>2</sup> )      |
| Admissible travel path, vertical         | 2 m (at 5 m/s <sup>2</sup> )      |
| Admissible traversing speed              | 3 m/s                             |
| Torsional stress                         | $\pm 180 \text{ }^\circ/\text{m}$ |
| Ambient temperature (fixed)              | -40...+105 °C                     |
| Ambient temperature (mobile)             | -25...+105 °C                     |
| Ambient temperature (drag chain)         | -25...+60 °C                      |

Circuit Diagram



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) |         |