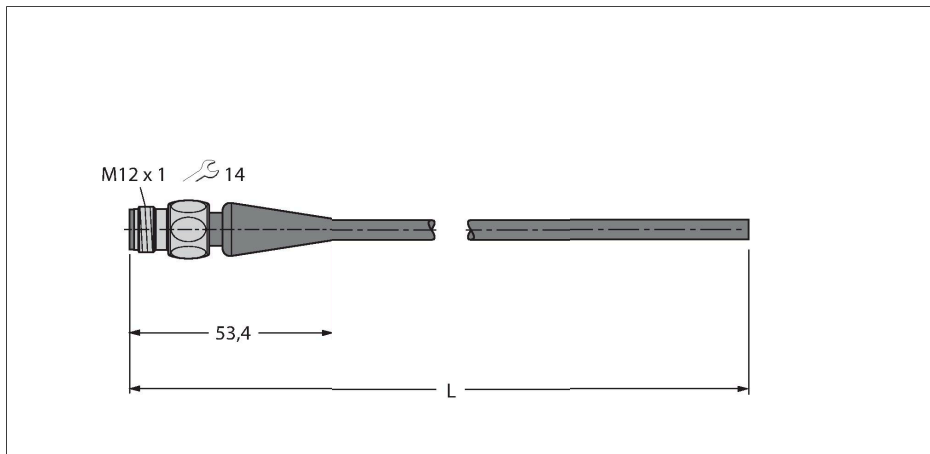


# RSH4.5-2/TFG

## Food & Beverage Hygienic, TPE – Connection Cable

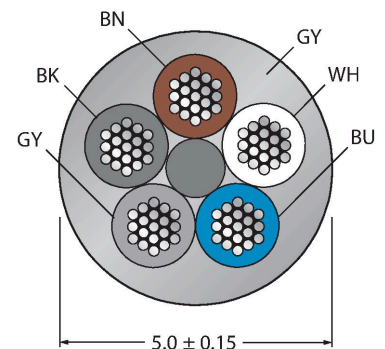


### Features

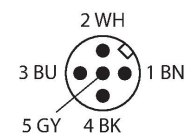


- M12 male connector, straight, 5-pin
- Stainless steel coupling nut/screw
- Sheath material: TPE-O
- Sheath color: light gray RAL 7035
- Qualified for drag chain use
- Resistant to chemicals and microbes
- Weatherproof
- Resistant to hydrolysis acc. to DIN EN 60068-2-78
- Flexible at low temperatures
- 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: 2.0 m

### Cable Cross-Section



### Contact assignment



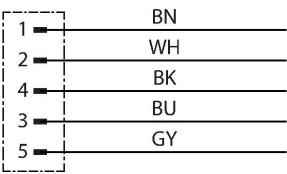
### Technical data

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Type                                   | RSH4.5-2/TFG                                               |
| ID                                     | 6933527                                                    |
| Connector A                            | Male, M12 × 1, Straight                                    |
| Number of Pins                         | 5                                                          |
| 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 5 mm ±0.15                                               |
| Cable length                           | 2 m                                                        |
| Cable jacket                           | TPE-O, Gray                                                |
| Core insulation                        | TPE-E                                                      |
| Core cross-section                     | 5 x 0.34 mm²                                               |
| Arrangement of strands                 | 42 x 0.1 mm                                                |
| Core colors                            | BN, BU, BK, WH, GY                                         |
| <b>Electrical properties at +20 °C</b> |                                                            |
| Rated voltage                          | 60 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. $5 \text{ m/s}^2$       |
| Admissible travel path, horizontal              | 5 m (at $5 \text{ m/s}^2$ )  |
| Admissible travel path, vertical                | 2 m (at $5 \text{ m/s}^2$ )  |
| Admissible traversing speed                     | 3 m/s                        |
| Torsional stress                                | $\pm 180^\circ/\text{m}$     |
| Ambient temperature range (stationary)          | $-40\dots+105^\circ\text{C}$ |
| Ambient temperature range (In motion)           | $-25\dots+105^\circ\text{C}$ |
| Ambient temperature during drag chain operation | $-25\dots+60^\circ\text{C}$  |

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) |         |