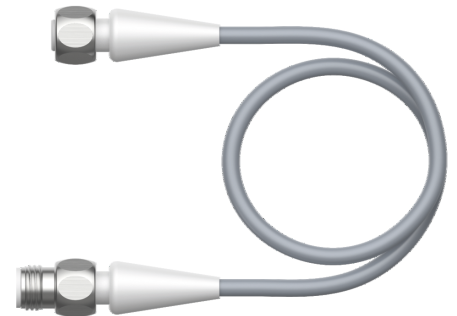


# RKH4.4-1-RSH4.4/TFG

## Food & Beverage Hygienic, TPE – Extension Cable



### Technical data

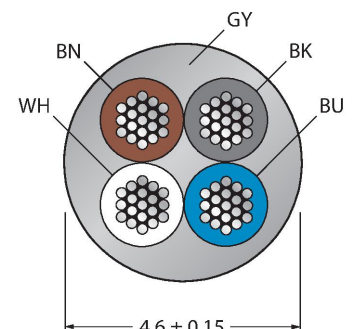
|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| Type                         | RKH4.4-1-RSH4.4/TFG                                        |
| ID                           | 6933471                                                    |
| Connector A                  | Female, M12 × 1, Straight                                  |
| Number of Pins               | 4                                                          |
| Contacts                     | Brass, CuZn, Gold-plated                                   |
| Contact carriers             | Plastic, PP, Gray                                          |
| Connector body               | Plastic, PP, Gray                                          |
| Coupling nut/screw           | Stainless Steel, V4A                                       |
| Seal                         | Plastic, 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          |
| Connector B                  | Male, M12 × 1, Straight                                    |
| Number of pins               | 4                                                          |
| Contacts                     | Brass, CuZn, Gold-plated                                   |
| Contact carriers             | Plastic, PP, Gray                                          |
| Connector body               | Plastic, PP, Gray                                          |
| Coupling nut/retaining screw | Stainless Steel, V4A                                       |
| Tightening torque            | 0.8 ... 1 Nm (observe max. torque of mating connector!)    |
| Mechanical life              | > 100 Mating cycles                                        |
| Pollution degree             | 3                                                          |
| Protection class             | IP65, IP67, IP68, IP69, Only when screwed together         |

### Features



- M12 female connector, straight, 4-pin
- Stainless steel coupling nut/screw
- M12 male connector, straight, 4-pin
- 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: 1.0 m

### Cable Cross-Section



Technical data

| Cable                                           |                     |
|-------------------------------------------------|---------------------|
| Cable diameter                                  | Ø 4.6 mm ±0.15      |
| Cable length                                    | 1 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, WH, BU, BK      |
| Electrical properties at +20 °C                 |                     |
| Rated voltage                                   | 250 V               |
| Test voltage                                    | 2000 V              |
| Current                                         | 4 A                 |
| Insulation resistance                           | ≥ 10 <sup>8</sup> Ω |
| Nom. capacitance                                | 82 pF/m             |
| Nom. Inductance                                 | 0.73 mH/km          |
| Mechanical and chemical properties              |                     |
| Max. tensile strength (static)                  | ≤ 50 N/mm²          |
| Max. tensile strength (dynamic)                 | ≤ 20 N/mm²          |
| Bending radius (stationary installation)        | ≥ 5 x Ø             |
| Bending radius (flexible use)                   | ≥ 10 x Ø            |
| Bending cycles                                  | ≥ 4 million         |
| Admissible acceleration                         | max. 5 m/s²         |
| Admissible travel path, horizontal              | 5 m (at 5 m/s²)     |
| Admissible travel path, vertical                | 2 m (at 5 m/s²)     |
| Admissible traversing speed                     | 3 m/s               |
| Torsional stress                                | ± 180 °/m           |
| Ambient temperature range (stationary)          | -40...+105 °C       |
| Ambient temperature range (In motion)           | -25...+105 °C       |
| Ambient temperature during drag chain operation | -25...+60 °C        |

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) |         |

Contact assignment



Circuit Diagram

