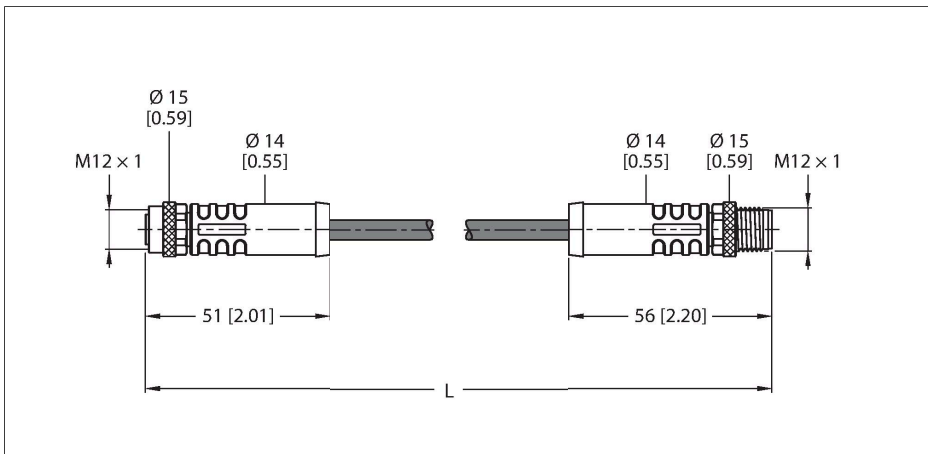


RKP46PTA-3-RSP46PTA/TXL

Supply Cable — M12 Power – Extension Cable



Technical data

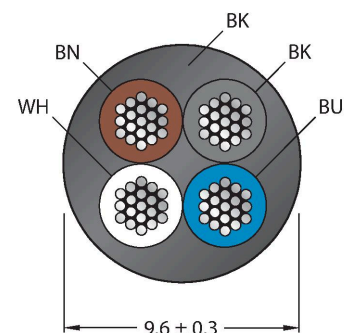
| | |
|------------------------------|---|
| Type | RKP46PTA-3-RSP46PTA/TXL |
| ID | 100038869 |
| Connector A | Female, M12 × 1, Straight, T-coded |
| Number of Pins | 4 |
| Contacts | Brass, CuZn, Gold-plated |
| Contact carriers | Plastic, PA, Black |
| Connector body | Plastic, TPU, Black |
| Coupling nut/screw | Brass, CuZn, Nickel-plated |
| Seal | Plastic, FPM/FKM |
| Tightening torque | 1 Nm |
| Mechanical lifespan | > 100 Mating cycles |
| Pollution degree | 3 |
| Protection class | IP65, IP67, IP68, Only in screwed condition |
| Connector B | Male, M12 × 1, Straight, T-coded |
| Number of pins | 4 |
| Contacts | Brass, CuZn, Gold-plated |
| Contact carriers | Plastic, PA, Black |
| Connector body | Plastic, TPU, Black |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated |
| Tightening torque | 1 Nm |
| Mechanical life | > 100 Mating cycles |
| Pollution degree | 3 |
| Protection class | IP65, IP67, IP69K, Only when screwed together |
| Cable | |
| Cable diameter | Ø 9.6 mm ±0.20 |
| Cable length | 3 m |

Features



- M12 female connector, T-coded, straight, 4-pin
- M12 male connector, T-coded, straight, 4-pin
- Jacket material: PUR
- Jacket color: black
- Highly resistant to oils, coolants, lubricants and emulsions
- Suitable for drag chain use
- Resistant to vibrations and shocks
- Flame retardant
- Halogen free
- Norms: CE, UKCA and RoHS
- Protection class: IP65, IP67, IP68
- Cable length: 3 m

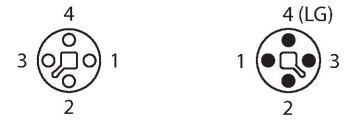
Cable Cross-Section



Contact assignment

Technical data

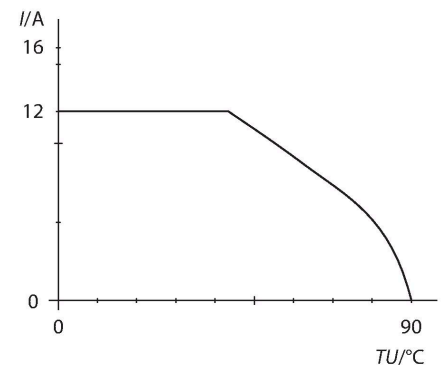
| | |
|---|--|
| Cable jacket | PUR, Black |
| Core insulation | PP |
| Core cross-section | 4 x 1.5 mm ² |
| Core colors | BN, WH, BU, BK |
| Electrical properties at +20 °C | |
| Rated voltage | 50 V _{AC} /63 V _{DC} |
| Current | 12 A |
| Mechanical and chemical properties | |
| Bending radius (stationary installation) | ≥ 4 x Ø |
| Bending radius (flexible use) | ≥ 8 x Ø |
| Bending cycles | ≥ 8 million |
| Admissible acceleration | max. 5 m/s ² |
| Admissible travel path, horizontal | 5 m (at 5 m/s ²) |
| Torsional stress | ± 270 °/m |
| Ambient temperature range (stationary) | -40...+80 °C |
| Ambient temperature range (In motion) | -30...+80 °C |
| Ambient temperature during drag chain operation | -25...+60 °C |
| Qualified for drag chain use | yes |
| Halogen-free | yes |
| Oil-resistant | yes |
| Flame-retardant | yes |



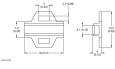
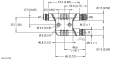
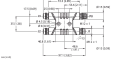
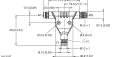
Circuit Diagram



Derating Curve



Accessories

| Dimension drawing | Type | ID | Description |
|---|-----------------------|-----------|--|
|  | 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 |
|  | VH2-M12T-M4-2F4 | 100028589 | Small h-splitter, M12 Power, T-coded, 4-pin |
|  | VH3-M12T-M4-3F4 | 100028593 | Large H-splitter, M12 Power, T-coded, 4-pin |
|  | VT2-M12T-M4-2F4 | 100028581 | T-splitter, M12 Power, T-coded, 4-pin |