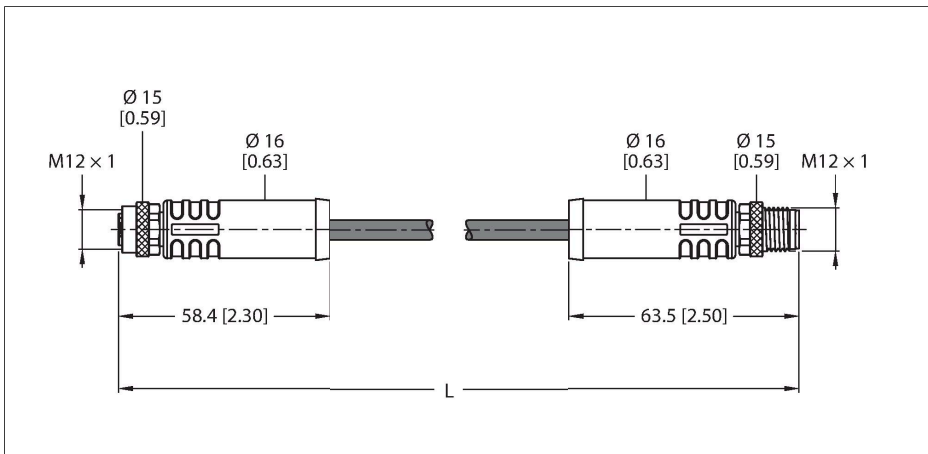


# RKP54PLA-10-RSP54PLA/TXG

## Supply Cable — M12 Power – Extension Cable



### Technical data

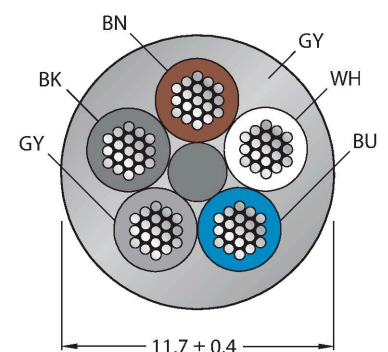
|                              |  |
|------------------------------|--|
| Type                         | RKP54PLA-10-RSP54PLA/TXG                     |
| ID                           | 100038758                                    |
| Connector A                  | Female, M12 × 1, Straight, L-coded           |
| Number of Pins               | 4+FE   |
| 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, L-coded             |
| Number of pins               | 4+FE   |
| 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, IP68, Only when screwed together |
| Cable                        |  |
| Cable diameter               | Ø 11.7 mm ±0.20                              |
| Cable length                 | 10 m   |

### Features



- M12 female connector, L-coded, straight, 5-pin (4+FE)
- M12 male connector, L-coded, straight, 5-pin (4+FE)
- Jacket material: PUR
- Jacket color: gray
- Highly resistant to oils, coolants, lubricants
- 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: 10 m

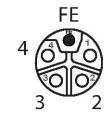
### Cable Cross-Section



### Contact assignment

## Technical data

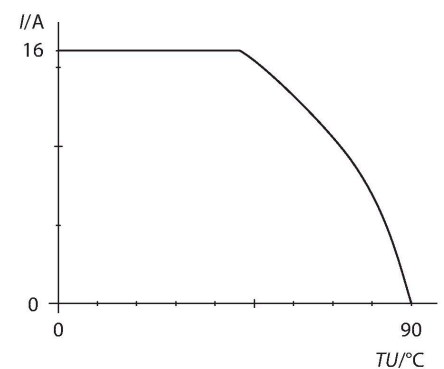
|   |  |
|---|--|
| Cable jacket                                    | PUR, Gray                              |
| Core insulation                                 | PP                                     |
| Core cross-section                              | 5 x 2.5 mm <sup>2</sup>                |
| Core colors                                     | BN, WH, BU, BK, GY                     |
| <b>Electrical properties at +20 °C</b>          |  |
| Rated voltage                                   | 50 V <sub>AC</sub> /63 V <sub>DC</sub> |
| Current   | 16 A                                   |
| <b>Mechanical and chemical properties</b>       |  |
| Bending radius (stationary installation)        | ≥ 4 x Ø                                |
| Bending radius (flexible use)                   | ≥ 8 x Ø                                |
| Bending cycles                                  | ≥ 8 million                            |
| Admissible acceleration                         | max. 5 m/s <sup>2</sup>                |
| Admissible travel path, horizontal              | 5 m (at 5 m/s <sup>2</sup> )           |
| 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 x 18 mm; delivery unit: 50 pcs. per package |
|                   | VH2-M12L-M5-2F5       | 100028587 | Small h-splitter, M12 Power, L-coded, 4-pin + FE   |
|                   | VH3-M12L-M5-3F5       | 100028591 | Large H-splitter, M12 Power, L-coded, 4-pin + FE   |
|                   | VT2-M12L-M5-2F5       | 100028579 | T-splitter, M12 Power, L-coded, 4-pin + FE   |