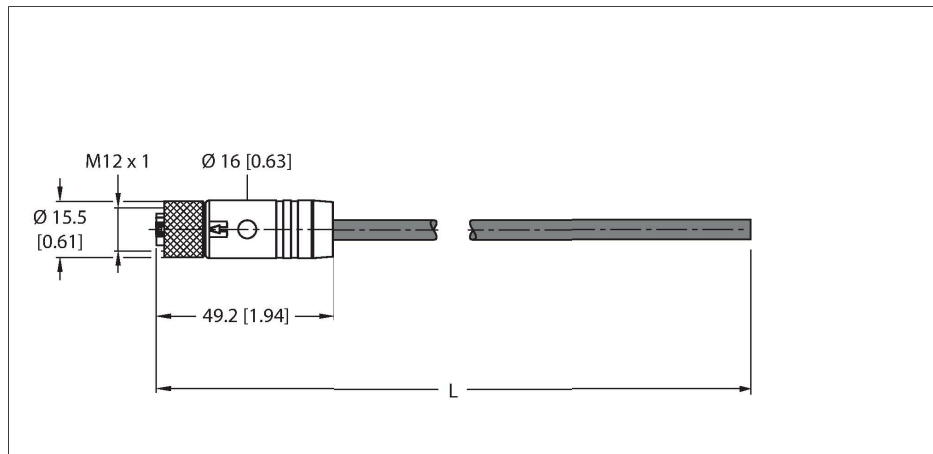


# RKP46PTB-0.5/TXL

## Supply Cable — M12 Power – Connection Cable



### Technical data

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Type                      | RKP46PTB-0.5/TXL                                             |
| ID                        | 100003329                                                    |
| Connector A               | Female, M12 × 1, Straight, T-coded                           |
| Number of Pins            | 4                                                            |
| Contacts                  | Copper-nickel, CuNi, Gold-plated                             |
| Contact carriers          | Plastic, PBT GF, Black                                       |
| Connector body            | Plastic, TPE, Black                                          |
| Coupling nut/screw        | Brass, CuZn, Nickel-plated                                   |
| Seal                      | Plastic, FPM/FKM                                             |
| Tightening torque (range) | 0.5 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan       | > 100 Mating cycles                                          |
| Pollution degree          | 3                                                            |
| Protection class          | IP65, IP67, IP69K, Only in screwed condition                 |

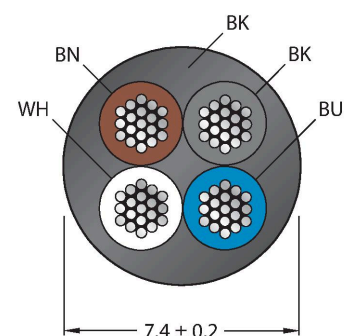
|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| <b>Cable</b>                              |                                        |
| Cable diameter                            | Ø 7.4 mm ±0.20                         |
| Cable length                              | 0.5 m                                  |
| Cable jacket                              | PUR, Black                             |
| Core insulation                           | PP                                     |
| Core cross-section                        | 4 x 1.5 mm <sup>2</sup>                |
| Core colors                               | BN, WH, BU, BK                         |
| <b>Electrical properties at +20 °C</b>    |                                        |
| Rated voltage                             | 50 V <sub>AC</sub> /60 V <sub>DC</sub> |
| Current                                   | 16 A                                   |
| <b>Mechanical and chemical properties</b> |                                        |
| Bending radius (stationary installation)  | ≥ 4 x Ø                                |

### Features



- M12 female connector, T-coded, straight, 4-pin
- Jacket material: PUR
- Jacket color: black
- Highly resistant to oils, coolants, lubricants and emulsions
- Suitable for use in drag chains
- Resistant to vibrations and shocks
- Flame retardant
- Halogen-free
- RoHS compliant
- UL approval
- Protection class: IP65, IP67, IP69K
- Cable length: 0.5 m

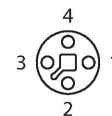
### Cable Cross-Section



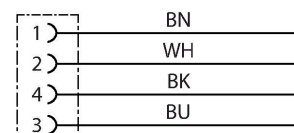
### Contact assignment

## Technical data

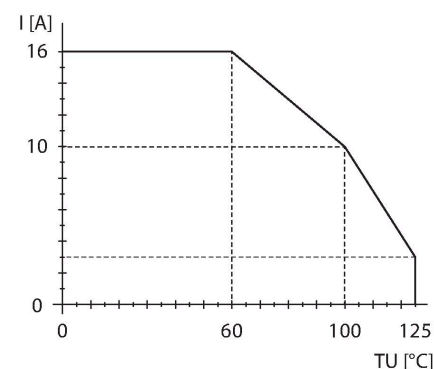
|                                                 |                              |
|-------------------------------------------------|------------------------------|
| Bending radius (flexible use)                   | $\geq 7 \times \varnothing$  |
| Bending cycles                                  | $\geq 10$ 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                                | $\pm 30$ °/m                 |
| Ambient temperature range (stationary)          | -40...+80 °C                 |
| Ambient temperature range (In motion)           | -30...+80 °C                 |
| Ambient temperature during drag chain operation | -20...+60 °C                 |
| Qualified for drag chain use                    | yes                          |
| Halogen-free                                    | yes                          |
| Oil-resistant                                   | yes                          |
| Flame-retardant                                 | yes                          |
| Approvals                                       | cULus                        |



## Circuit Diagram



## Derating Curve



## Accessories

| Dimension drawing | Type                   | ID        |                                                                                                                                                                                                                                         |
|-------------------|------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | 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                                                                                                                                                                                             |
|                   | FW-ERSPM0414-PT-S-0810 | 100026335 | Field-wireable male connector, M12 Power, T-coded, straight, 4-pin, screw terminal connection, cable feedthrough 8.0 to 10 mm, core cross-section/terminal capacity 1.5 to 2.5 mm <sup>2</sup> , plastic housing, metal retaining screw |
|                   | 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                                                                                                                                                                                                   |