

# RSP46PTB-1/TXL

## Supply Cable - M12 Power – Connection Cable



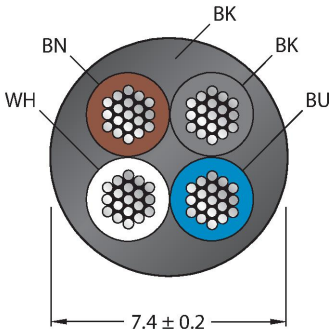
### Technical data

|                                          |                                                              |
|------------------------------------------|--------------------------------------------------------------|
| Type                                     | RSP46PTB-1/TXL                                               |
| ID                                       | 100031371                                                    |
| Connector A                              | Male, 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                                   |
| 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                 |
| Cable                                    |                                                              |
| Cable diameter                           | Ø 7.4 mm ±0.20                                               |
| Cable length                             | 1 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                                               |
| Electrical properties at +20 °C          |                                                              |
| Rated voltage                            | 50 V <sub>AC</sub> /60 V <sub>DC</sub>                       |
| Current                                  | 16 A                                                         |
| Mechanical and chemical properties       |                                                              |
| Bending radius (stationary installation) | ≥ 4 x Ø                                                      |
| Bending radius (flexible use)            | ≥ 7 x Ø                                                      |

### Features

- UL LISTED
- CE
- UK CA
- IP67/IP69K DEGREE OF PROTECTION
- M12 male 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: 1.0 m

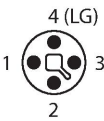
### Cable Cross-Section



### Contact assignment

Technical data

|                                    |                              |
|------------------------------------|------------------------------|
| Bending cycles                     | ≥ 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                   | ± 30 °/m                     |
| Ambient temperature (fixed)        | -40...+80 °C                 |
| Ambient temperature (mobile)       | -30...+80 °C                 |
| Ambient temperature (drag chain)   | -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-ERKPM0414-PT-S-0810 | 100026334 | Field-wireable female 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                                                                                                                                                                                                     |