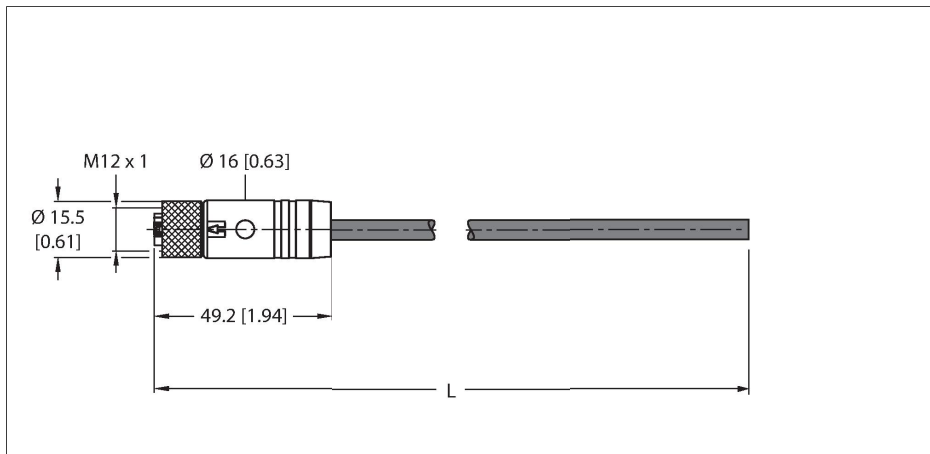


# RKS46PSB-10/TXL

## Supply Cable — M12 Power – Connection Cable



### Technical data

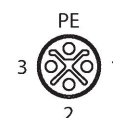
|                                           |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| Type                                      | RKS46PSB-10/TXL                                              |
| ID                                        | 100023990                                                    |
| Connector A                               | Female, M12 × 1, Straight, S-coded                           |
| Number of Pins                            | 3+PE                                                         |
| 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 9.4 mm ±0.20                                               |
| Cable length                              | 10 m                                                         |
| Cable jacket                              | PUR, Black                                                   |
| Core insulation                           | PP                                                           |
| Core cross-section                        | 4 x 1.5 mm <sup>2</sup>                                      |
| Core colors                               | BK1, BK2, BK3, GNYE                                          |
| <b>Electrical properties at +20 °C</b>    |                                                              |
| Rated voltage                             | 600 V                                                        |
| Current                                   | 16 A                                                         |
| <b>Mechanical and chemical properties</b> |                                                              |
| Bending radius (stationary installation)  | ≥ 4 x Ø                                                      |

### Features

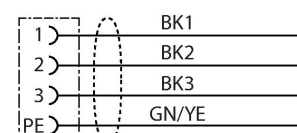


- M12 female connector, S-coded, straight, 4-pin (3+PE)
- Shield on coupling nut
- Jacket material: PUR
- Jacket color: black
- Highly resistant to oils, coolants, lubricants and emulsions
- Suitable for use in drag chains
- Resistant to vibrations and shocks
- Flame retardant
- Halogen-free
- RoHS compliant
- UL approval
- Protection class: IP65, IP67, IP69K
- Cable length: 10 m

### Contact assignment



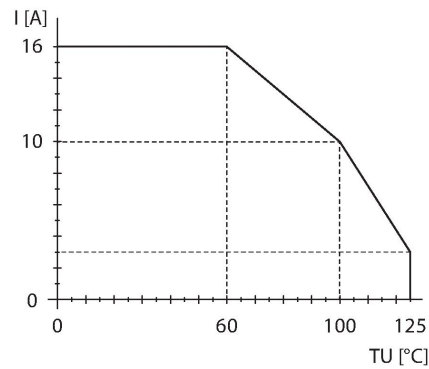
### Circuit Diagram



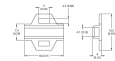
Technical data

|                                                 |                 |
|-------------------------------------------------|-----------------|
| Bending radius (flexible use)                   | ≥ 7 x Ø         |
| Bending cycles                                  | ≥ 10 million    |
| Admissible acceleration                         | max. 5 m/s²     |
| Admissible travel path, horizontal              | 5 m (at 5 m/s²) |
| 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           |

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 |