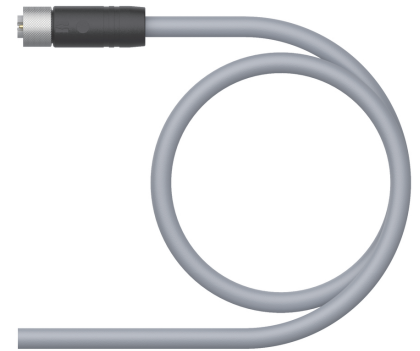
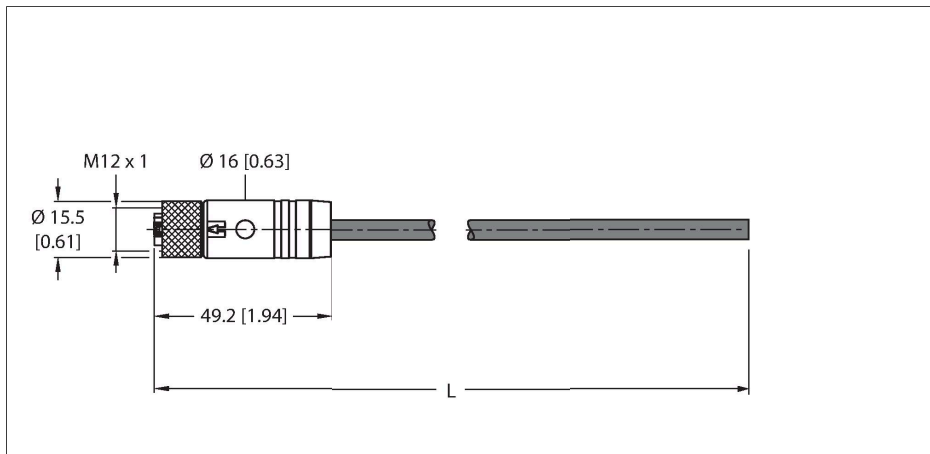


RKP56PLB-2/TXG

Supply Cable - M12 Power – Connection Cable



Technical data

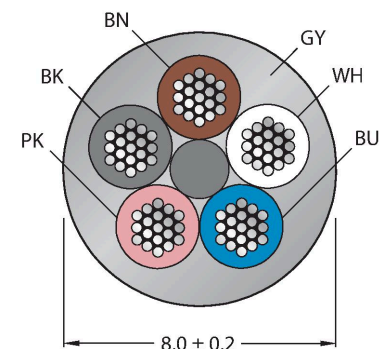
| | |
|---|--|
| Type | RKP56PLB-2/TXG |
| ID | 100006303 |
| Connector A | Female, M12 × 1, Straight, L-coded |
| Number of pins | 4+FE |
| Contacts | Copper-nickel, CuNi, Gold-plated |
| Contact carriers | Plastic, PBT GF, Black |
| Connector body | Plastic, TPE, Black |
| Coupling nut/screw | Brass, CuZn, Nickel-plated |
| Seal | Plastic, FPM/FKM |
| Tightening torque (range) | 0.5 ... 0.6 Nm (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 8 mm ±0.20 |
| Cable length | 2 m |
| Cable jacket | PUR, Gray |
| Core insulation | PP |
| Core cross-section | 5 x 1.5 mm ² |
| Core colors | BN, WH, BU, BK, PK |
| Electrical properties at +20 °C | |
| Rated voltage | 50 V _{AC} /60 V _{DC} |
| Current | 16 A |
| Mechanical and chemical properties | |
| Bending radius (stationary installation) | ≥ 4 x Ø |

Features



- M12 power cable, L-coded, female connector, straight, 5-pin (4+FE)
- Jacket material: PUR
- Jacket color: gray
- 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: 2.0 m

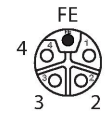
Cable Cross-Section



Contact assignment

Technical data

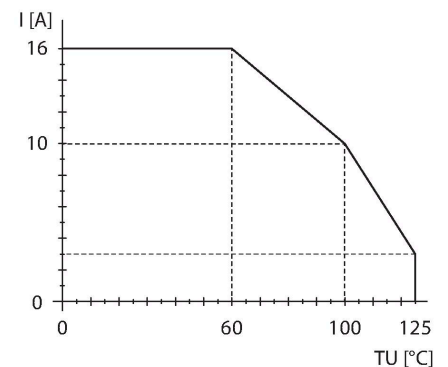
| | |
|------------------------------------|------------------------------|
| Bending radius (flexible use) | $\geq 7 \times \varnothing$ |
| Bending cycles | ≥ 10 million |
| Admissible acceleration | max. 5 m/s ² |
| Admissible travel path, horizontal | 5 m (at 5 m/s ²) |
| Torsional stress | ± 30 °/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 | 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-M12L-M5-2F5 | 100028587 | Small h-splitter, M12 Power, L-coded, 4-pin + FE |
| | FW-ERSPM0514-PL-S-0813 | 100008140 | Field-wireable male connector, M12 Power, L-coded, straight, 4-pin + FE, screw terminal connection, cable feedthrough 8.0 to 13 mm, core cross-section/terminal capacity 1.5 to 2.5 mm ² , plastic housing, metal retaining screw |
| | 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 |