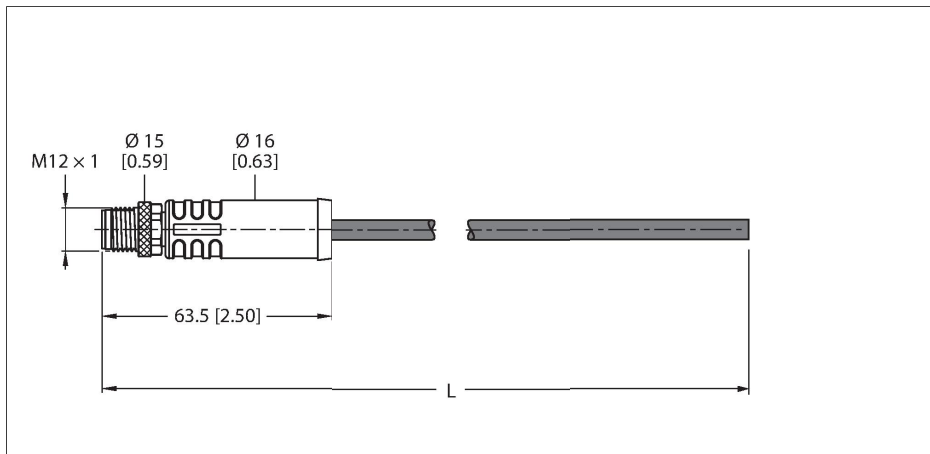


# RSP56PLA-20/TXG

## Supply Cable — M12 Power – Connection Cable



### Technical data

|                                          |                                             |
|------------------------------------------|---------------------------------------------|
| Type                                     | RSP56PLA-20/TXG                             |
| ID                                       | 100038702                                   |
| Connector A                              | 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/screw                       | Brass, CuZn, Nickel-plated                  |
| Tightening torque                        | 1 Nm                                        |
| Mechanical lifespan                      | > 100 Mating cycles                         |
| Pollution degree                         | 3                                           |
| Protection class                         | IP65, IP67, IP68, Only in screwed condition |
| Cable                                    |                                             |
| Cable diameter                           | Ø 9.9 mm ±0.20                              |
| Cable length                             | 20 m                                        |
| Cable jacket                             | PUR, Gray                                   |
| Core insulation                          | PP                                          |
| Core cross-section                       | 5 x 1.5 mm <sup>2</sup>                     |
| Core colors                              | BN, WH, BU, BK, GY                          |
| Electrical properties at +20 °C          |                                             |
| Rated voltage                            | 50 V <sub>AC</sub> /63 V <sub>DC</sub>      |
| Current                                  | 16 A                                        |
| Mechanical and chemical properties       |                                             |
| 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>                     |

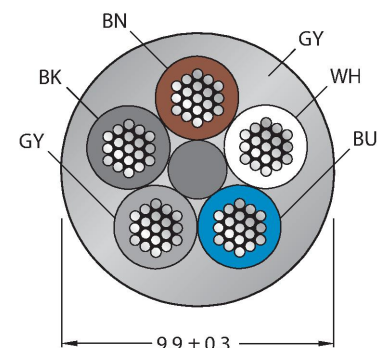


### Features



- 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: 20 m

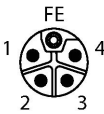
### Cable Cross-Section



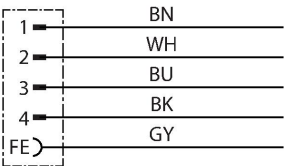
### Contact assignment

Technical data

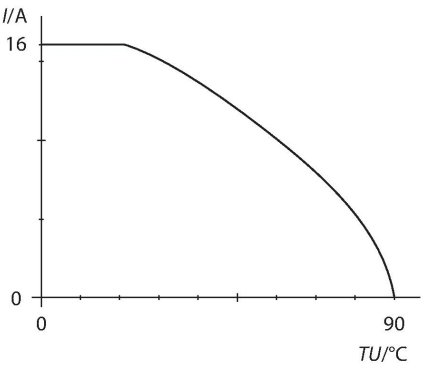
|                                                 |                 |
|-------------------------------------------------|-----------------|
| Admissible travel path, horizontal              | 5 m (at 5 m/s²) |
| Torsional stress                                | ± 270 °/m       |
| Ambient temperature 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        |                                                                                                                                                                                                                                   |
|-------------------|------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | 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                                                                                                                                                                                  |
|                   | 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                                                                                                                                                                                        |
|                   | FW-ERKPM0514-PL-S-0813 | 100008139 | Field-wireable female 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 mm², plastic housing, metal retaining screw |