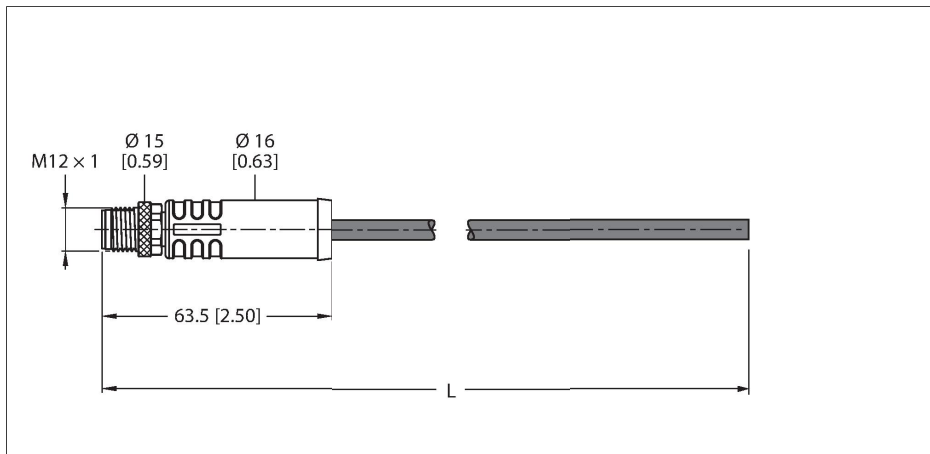


# RSP54PLA-0.5/TXG

## Supply Cable - M12 Power – Connection Cable



### Technical data

|                                           |                                             |
|-------------------------------------------|---------------------------------------------|
| Type                                      | RSP54PLA-0.5/TXG                            |
| ID                                        | 100038735                                   |
| 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 |
| <b>Cable</b>                              |                                             |
| Cable diameter                            | Ø 11.7 mm ±0.20                             |
| Cable length                              | 0.5 m                                       |
| Cable jacket                              | PUR, Gray                                   |
| Core insulation                           | PP                                          |
| Core cross-section                        | 5 x 2.5 mm <sup>2</sup>                     |
| Core colors                               | BN, WH, BU, BK, GY                          |
| <b>Electrical properties at +20 °C</b>    |                                             |
| Rated voltage                             | 50 V <sub>AC</sub> /63 V <sub>DC</sub>      |
| Current                                   | 16 A                                        |
| <b>Mechanical and chemical properties</b> |                                             |
| 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>                     |

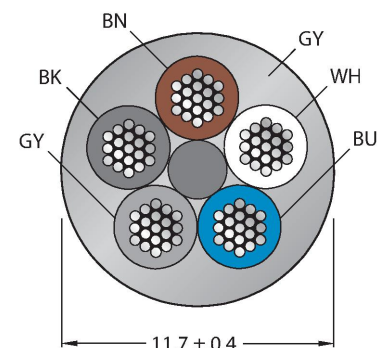


### Features



- 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: 0.5 m

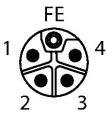
### Cable Cross-Section



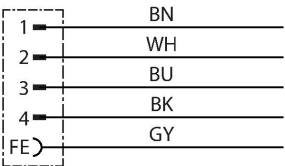
### Contact assignment

Technical data

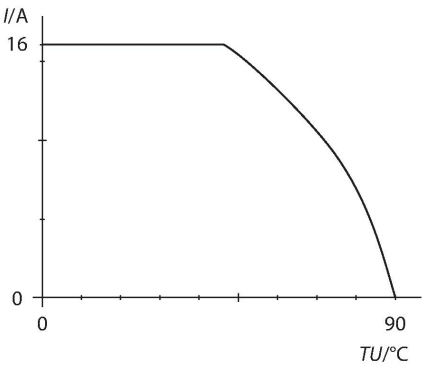
|                                    |                 |
|------------------------------------|-----------------|
| Admissible travel path, horizontal | 5 m (at 5 m/s²) |
| Torsional stress                   | ± 270 °/m       |
| Ambient temperature (fixed)        | -40...+80 °C    |
| Ambient temperature (mobile)       | -30...+80 °C    |
| Ambient temperature (drag chain)   | -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 |