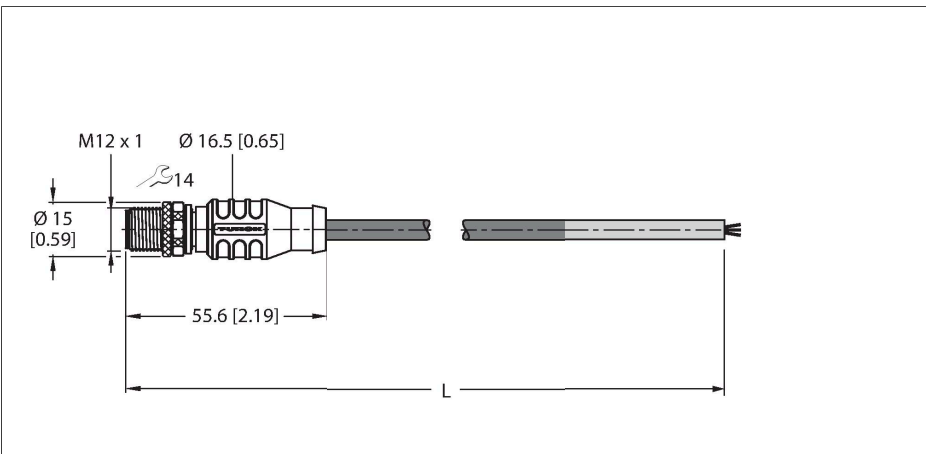


# RSSW 456-10M

## PROFIBUS Cable – PUR Cable Jacket

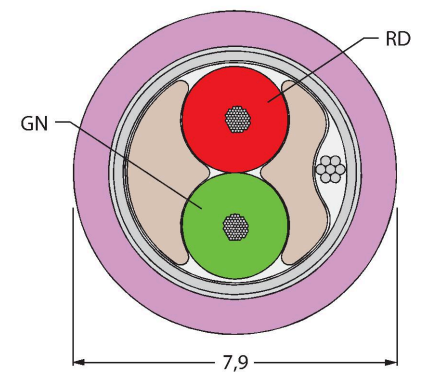


### Features



- M12 male connector, straight, reverse-keyed
- End open
- Cable length: 10 m

### Cable Cross-Section



### Technical data

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Type                            | RSSW 456-10M                                               |
| ID                              | U0340-7                                                    |
| Connector A                     | Male, M12 × 1, Straight, B-coded                           |
| Number of Pins                  | 5                                                          |
| Contacts                        | Metal, CuZn, Gold-plated                                   |
| Contact carriers                | Plastic, TPU, Black                                        |
| Connector body                  | Plastic, TPU, Black                                        |
| Coupling nut/screw              | Brass, CuZn, Nickel-plated                                 |
| Tightening torque (range)       | 0.8 ... 1 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan             | > 100 Mating cycles                                        |
| Pollution degree                | 3                                                          |
| Protection class                | IP67, Only in screwed condition                            |
| Cable                           |                                                            |
| Network protocol                | PROFIBUS-DP, 456                                           |
| Cable diameter                  | Ø 7.9 mm ±0.30                                             |
| Cable length                    | 10 m                                                       |
| Cable jacket                    | PUR, Violet                                                |
| Shielding                       | Aluminum foil, tinned copper wire                          |
| Core insulation                 | PE                                                         |
| Core cross-section              | 2 x 0.34 mm <sup>2</sup>                                   |
| Arrangement of strands          | 19 x 0.15 mm                                               |
| Core colors                     | GN, RD                                                     |
| Electrical properties at +20 °C |                                                            |
| Rated voltage                   | 250 V                                                      |
| Current                         | 4 A                                                        |
| DC resistance (loop)            | 50 Ω/km                                                    |

## Technical data

|                                                                              |                              |
|------------------------------------------------------------------------------|------------------------------|
| Nom. impedance                                                               | 150 $\Omega$ (1 MHz)         |
| Nom. capacitance                                                             | 29.53 pF/m                   |
| <b>Mechanical and chemical properties</b>                                    |                              |
| Bending radius (stationary installation)                                     | $\geq 5 \times \varnothing$  |
| Bending radius (flexible use)                                                | $\geq 15 \times \varnothing$ |
| Ambient temperature range (stationary)                                       | -40...+80 °C                 |
| Ambient temperature range (In motion)                                        | -40...+80 °C                 |
| <b>Other Features</b>                                                        |                              |
| Qualified for drag chain use                                                 | no                           |
| Halogen-free                                                                 | no                           |
| UV resistance                                                                | yes                          |
| Flame-retardant                                                              | yes                          |
| Approvals                                                                    | UL<br>CSA                    |
| <b>Note</b>                                                                  |                              |
| - We reserve the right to make technical modifications without prior notice. |                              |