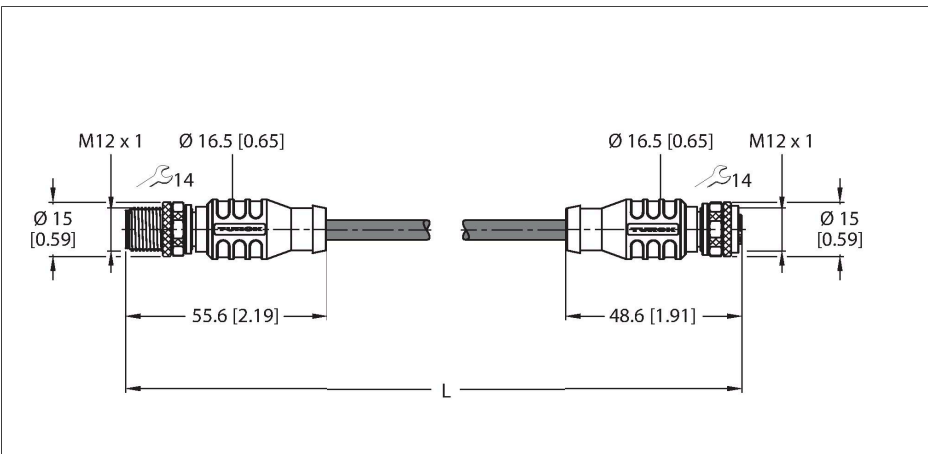


# RSSW RKSU 456-8M

## PROFIBUS Cable – PUR Cable Jacket

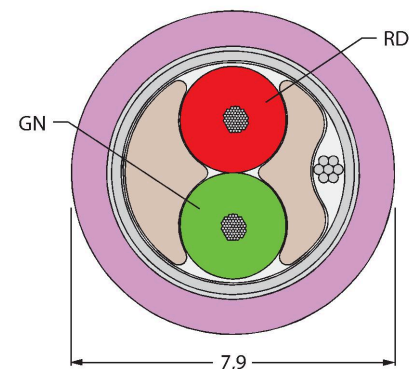


### Features



- M12 male connector, straight, reverse-keyed
- M12 female, straight, reverse-keyed
- Cable length: 8.0 m

### Cable Cross-Section



### Technical data

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| Type                         | RSSW RKSU 456-8M                                           |
| ID                           | U0395-2                                                    |
| 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                            |
| Connector B                  | Female, M12 × 1, Straight, B-coded                         |
| Number of pins               | 5                                                          |
| Contacts                     | Metal, CuZn, Gold-plated                                   |
| Contact carriers             | Plastic, TPU, Black                                        |
| Connector body               | Plastic, PUR, Black                                        |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                                 |
| Seal                         | Plastic, FPM/FKM                                           |
| Tightening torque            | 0.8 ... 1 Nm (observe max. torque of mating connector!)    |
| Mechanical life              | > 100 Mating cycles                                        |
| Pollution degree             | 3                                                          |
| Protection class             | IP67, Only when screwed together                           |
| Cable                        |                                                            |
| Network protocol             | PROFIBUS-DP, 456                                           |

## Technical data

|                                                                              |                                   |
|------------------------------------------------------------------------------|-----------------------------------|
| Cable diameter                                                               | Ø 7.9 mm ±0.30                    |
| Cable length                                                                 | 8 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                            |
| <b>Electrical properties at +20 °C</b>                                       |                                   |
| Rated voltage                                                                | 250 V                             |
| Current                                                                      | 4 A                               |
| DC resistance (loop)                                                         | 50 Ω/km                           |
| Nom. impedance                                                               | 150 Ω (1 MHz)                     |
| Nom. capacitance                                                             | 29.53 pF/m                        |
| <b>Mechanical and chemical properties</b>                                    |                                   |
| Bending radius (stationary installation)                                     | ≥ 5 x Ø                           |
| Bending radius (flexible use)                                                | ≥ 15 x Ø                          |
| 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. |                                   |