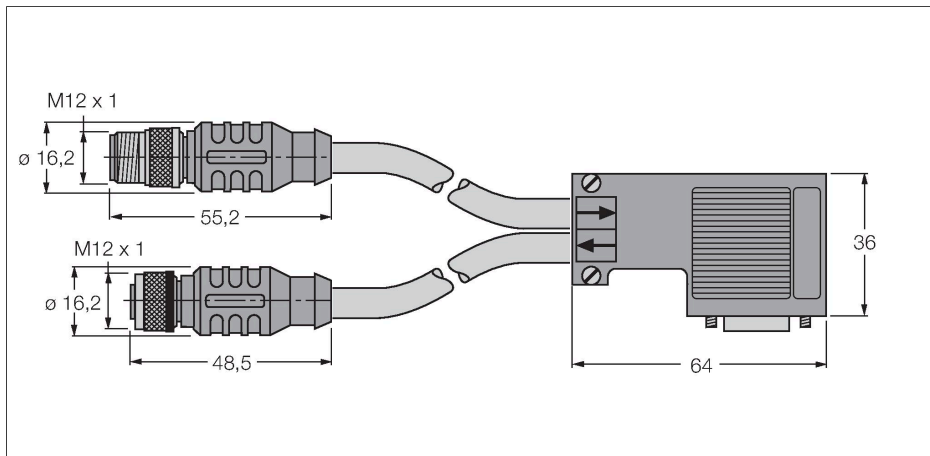


# RSSW-D9-RKSW-451-2M-2M

## PROFIBUS Cable – PUR Cable Jacket

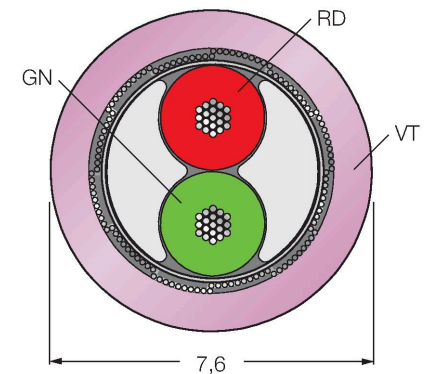


### Features



- PROFIBUS cable: 2 × 0.34 mm<sup>2</sup>
- Jacket material: PUR, color: purple
- Jacket diameter: 8.2 mm
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant acc. to DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
- Halogen free acc. to DIN EN 50267-2-1, VDE 0482-267-2-1, IEC 60754-1
- Free from silicone, PVC and LABS
- Resistant to microbes and hydrolysis
- RoHS compliant
- UL approved
- M12 × 1 male connector, straight, reverse-keyed
- M12 × 1 female connector, straight, reverse-keyed
- SUB-D with 2 cable exits
- Cable length: 2 x 2.0 m

### Cable Cross-Section



### Contact assignment



### Technical data

|                           |  |
|---------------------------|--|
| Type                      | RSSW-D9-RKSW-451-2M-2M                                     |
| ID                        | 6914127  |
| Connector A               | Male/Female, 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               | Male, D-Sub, Angled  |
| Number of pins            | 9  |
| Connector body            | Black  |
| Protection class          | IP20, Only when screwed together                           |
| Cable                     |  |
| Network protocol          | PROFIBUS-DP, 451   |
| Cable diameter            | Ø 8.2 mm +0.30   |
| Cable length              | 2 m, 2 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   |

## Technical data

| Electrical properties at +20 °C                 |                              |
|---|------------------------------|
| Rated voltage                                   | 250 V                        |
| Test voltage                                    | 2000 V                       |
| Current   | 4 A                          |
| DC resistance (loop)                            | 110 Ω/km                     |
| Nom. impedance                                  | 160 Ω (16 MHz)               |
| Nom. capacitance                                | 28 pF/m                      |
| Nom. Inductance                                 | 0.78 mH/km                   |
| Damping   | < 43.60 dB/km at 16.0 MHz    |
| Mechanical and chemical properties              |                              |
| Max. tensile strength (static)                  | ≤ 50 N/mm <sup>2</sup>       |
| Max. tensile strength (dynamic)                 | ≤ 20 N/mm <sup>2</sup>       |
| Bending radius (stationary installation)        | ≥ 5 x Ø                      |
| Bending radius (flexible use)                   | ≥ 10 x Ø                     |
| Bending cycles                                  | ≥ 3 million                  |
| Admissible acceleration                         | max. 5 m/s <sup>2</sup>      |
| Admissible travel path, horizontal              | 5 m (at 5 m/s <sup>2</sup> ) |
| Admissible travel path, vertical                | 2 m (at 5 m/s <sup>2</sup> ) |
| Admissible traversing speed                     | 3.33 m/s                     |
| Ambient temperature range (stationary)          | -50...+80 °C                 |
| Ambient temperature range (In motion)           | -25...+80 °C                 |
| Ambient temperature during drag chain operation | -25...+60 °C                 |
| Other Features                                  |                              |
| Qualified for drag chain use                    | yes                          |
| Halogen-free                                    | yes                          |
| Silicone-free                                   | yes                          |
| LABS free                                       | yes                          |
| PVC-free  | yes                          |
| Resistant to chemicals                          | yes                          |
| UV resistance                                   | yes                          |
| Oil-resistant                                   | yes                          |
| Flame-retardant                                 | yes                          |
| Approvals                                       | UL                           |