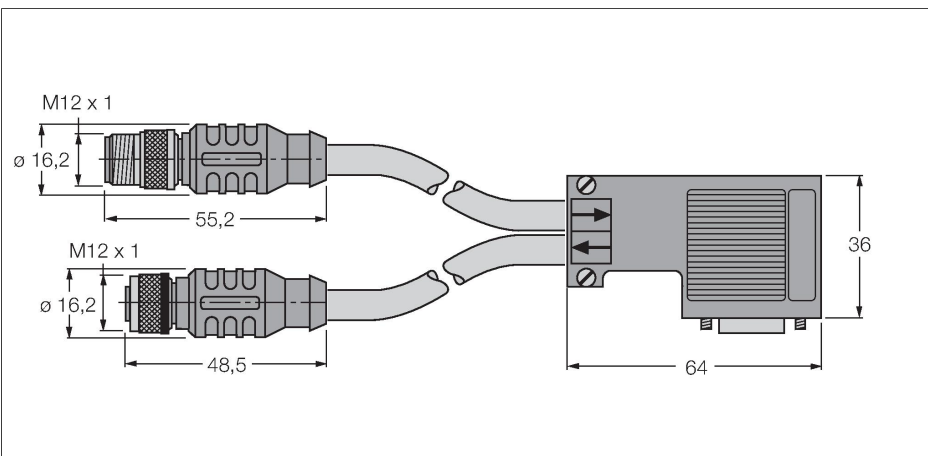


# RSSW-D9-RKSW-451-0.3M-0.3M

## PROFIBUS Cable – PUR Cable Jacket



### Features

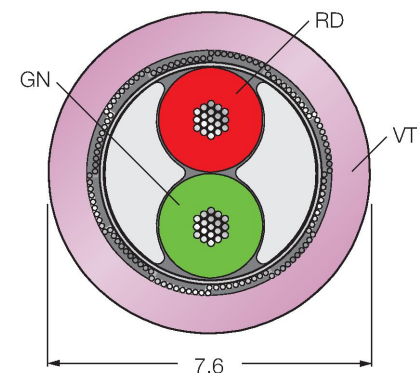


- PROFIBUS cable: 2 x 0.34 mm<sup>2</sup>
- Jacket material: PUR, color: violet
- Jacket diameter: 8.2 mm
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant acc. to DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
- Halogen free acc. to DIN EN 50267-2-1, VDE 0482-267-2-1, IEC 60754-1
- Free from silicone, PVC and LABS
- Resistant to microbes and hydrolysis
- RoHS compliant
- UL approved
- M12 x 1 male connector, straight, reverse-keyed
- M12 x 1 female connector, straight, reverse-keyed
- SUB-D with 2 cable exits
- Cable length: 2 x 0.3 m

### Technical data

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Type                      | RSSW-D9-RKSW-451-0.3M-0.3M                                 |
| ID                        | 6914125                                                    |
| Connector A               | Male/Female, M12 x 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              | 0.3 m, 0.3 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                                                     |

### Cable Cross-Section



### Contact assignment



## 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 (fixed)              | -50...+80 °C                 |
| Ambient temperature (mobile)             | -25...+80 °C                 |
| Ambient temperature (drag chain)         | -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                           |