

# RKSW 455-3M

## PROFIBUS Cable – PVC Cable Jacket

### Features

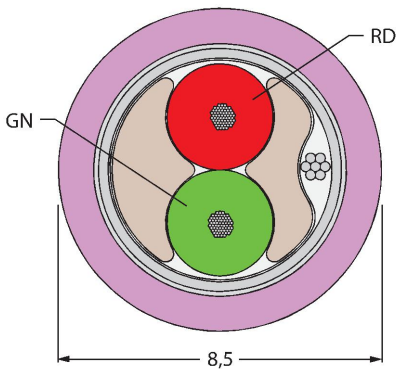


- PROFIBUS cable: AWG 22/1
- Jacket material: PVC, color: violet
- Jacket diameter: 8.5 mm
- UL approval
- End open
- M12 female connector, straight, reverse-keyed
- Cable length: 3.0 m

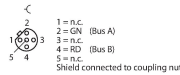
### Technical data

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Type                            | RKSW 455-3M                                                |
| ID                              | U0348-3                                                    |
| Connector A                     | 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                                 |
| Seal                            | Plastic, FPM/FKM                                           |
| 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, IP69K, Only in screwed condition                     |
| Cable                           |                                                            |
| Network protocol                | PROFIBUS-DP, 455                                           |
| Cable diameter                  | Ø 8.5 mm ±0.15                                             |
| Cable length                    | 3 m                                                        |
| Cable jacket                    | PVC, Violet                                                |
| Shielding                       | Aluminum foil, tinned copper wire                          |
| Core insulation                 | PE                                                         |
| Core cross-section              | 2 x 0.34 mm²                                               |
| Arrangement of strands          | 19 x 0.15 mm                                               |
| Core colors                     | GN, RD                                                     |
| Electrical properties at +20 °C |                                                            |
| Rated voltage                   | 250 V                                                      |

### Cable Cross-Section



### Contact assignment



## Technical data

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| Current                                                                      | 4 A           |
| DC resistance (loop)                                                         | 50 Ω/km       |
| Nom. impedance                                                               | 150 Ω (1 MHz) |
| Nom. capacitance                                                             | 29.53 pF/m    |
| Mechanical and chemical properties                                           |               |
| Bending radius (stationary installation)                                     | ≥ 5 x Ø       |
| Bending radius (flexible use)                                                | ≥ 15 x Ø      |
| Ambient temperature (fixed)                                                  | -40...+80 °C  |
| Ambient temperature (mobile)                                                 | -40...+80 °C  |
| Other Features                                                               |               |
| Qualified for drag chain use                                                 | no            |
| Halogen-free                                                                 | no            |
| UV resistance                                                                | yes           |
| Oil-resistant                                                                | no            |
| Flame-retardant                                                              | yes           |
| Approvals                                                                    | UL<br>CSA     |
| Note                                                                         |               |
| - We reserve the right to make technical modifications without prior notice. |               |