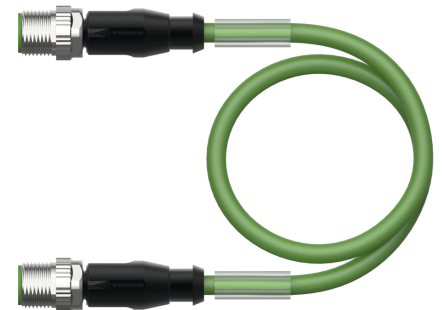
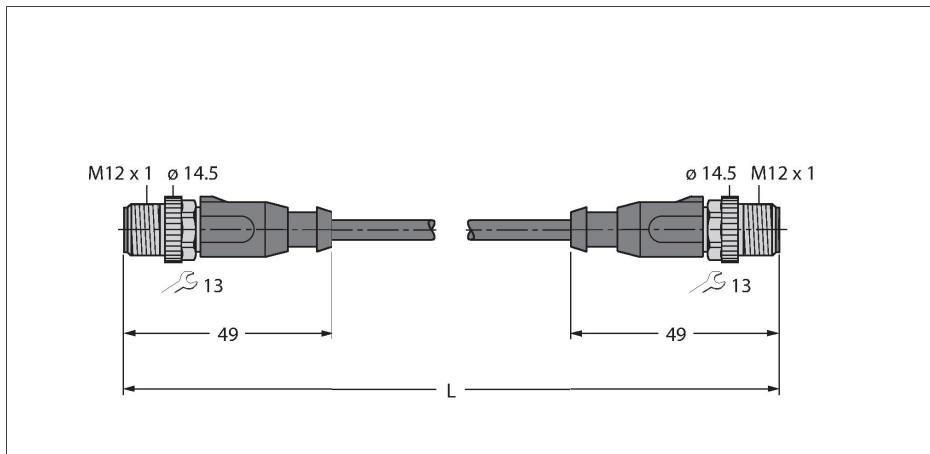


# RSSD-RSSD-4416-50M

## Industrial Ethernet/PROFINET Cable – Extension Cable



### Technical data

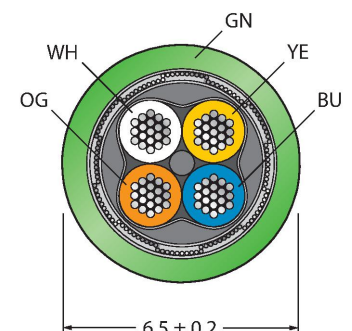
|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Type                         | RSSD-RSSD-4416-50M                                           |
| ID                           | 6441670                                                      |
| Connector A                  | Male, M12 × 1, Straight, D-coded                             |
| Number of Pins               | 4                                                            |
| Contacts                     | Metal, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, PA, UL 94, Black                                    |
| Connector body               | Plastic, TPU, UL 94, Black                                   |
| Coupling nut/screw           | Brass, GD-Zn, Nickel-plated                                  |
| Tightening torque (range)    | 0.4 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan          | > 100 Mating cycles                                          |
| Pollution degree             | 3/2                                                          |
| Protection class             | IP67, Only in screwed condition                              |
| Connector B                  | Male, M12 × 1, Straight, D-coded                             |
| Number of pins               | 4                                                            |
| Contacts                     | Metal, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, PA, UL 94, Black                                    |
| Connector body               | Plastic, TPU, UL 94, Black                                   |
| Coupling nut/retaining screw | Brass, GD-Zn, Nickel-plated                                  |
| Tightening torque            | 0.4 ... 0.6 Nm (observe max. torque of mating connector!)    |
| Mechanical life              | > 100 Mating cycles                                          |
| Pollution degree             | 3/2                                                          |
| Protection class             | IP67, Only when screwed together                             |
| Cable                        |                                                              |
| Network protocol             | Ethernet                                                     |
| Cable diameter               | Ø 6.5 mm ±0.20                                               |

### Features



- M12 male connector, straight, D-coded
- M12 male, straight
- Ethernet cable: 4-pin, AWG 22
- CAT 5E
- Jacket material: PUR
- Jacket color: green
- Shielding: overlapping aluminum foil, tinned copper wire
- Jacket diameter: 6.5 mm
- Suitable for drag chain use
- Oil resistant acc. to IEC 60811-2-1 and UL13
- Halogen free acc. to IEC 60754
- Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
- Approval: UL
- RoHS compliant
- PNO compliant
- Cable length: 50 m

### Cable Cross-Section



Technical data

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Cable length                             | 50 m                              |
| Cable jacket                             | PUR, Green                        |
| Shielding                                | Aluminum foil, tinned copper wire |
| Core insulation                          | PE                                |
| Core cross-section                       | 4 x 0.32 mm²                      |
| Arrangement of strands                   | 7 x 0.25 mm                       |
| Core colors                              | WH, YE, BU, OG                    |
| Electrical properties at +20 °C          |                                   |
| Rated voltage                            | 48 V                              |
| Test voltage                             | 2000 V                            |
| Current                                  | 3 A                               |
| DC resistance (loop)                     | 120 Ω/km                          |
| Nom. impedance                           | 100 Ω (1MHZ)                      |
| Nom. capacitance                         | 50 pF/m                           |
| Mechanical and chemical properties       |                                   |
| Bending radius (stationary installation) | ≥ 5 x Ø                           |
| Bending radius (flexible use)            | ≥ 8 x Ø                           |
| Bending cycles                           | ≥ 3 million                       |
| Torsional stress                         | ± 180 °/m                         |
| Torsion cycles                           | ≤ 100,000 Cycles                  |
| Ambient temperature range (stationary)   | -50...+70 °C                      |
| Ambient temperature range (In motion)    | -20...+60 °C                      |
| Other Features                           |                                   |
| Qualified for drag chain use             | yes                               |
| Halogen-free                             | yes                               |
| PVC-free                                 | yes                               |
| UV resistance                            | yes                               |
| Oil-resistant                            | yes                               |
| Flame-retardant                          | yes                               |
| Approvals                                | UL Listed                         |

Accessories

|                                                                                                                                                                   |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| TORQUE-WRENCH-SET-BUS                                                                                                                                             | 6936171 |
| Torque wrench set; grip with adjustable torque 0.4 to 1.0 Nm; torque wrench set, fork wrench for M8 (SW9), fork wrench for M12 (SW13), fork wrench for M12 (SW14) |         |

Contact assignment



Circuit Diagram

