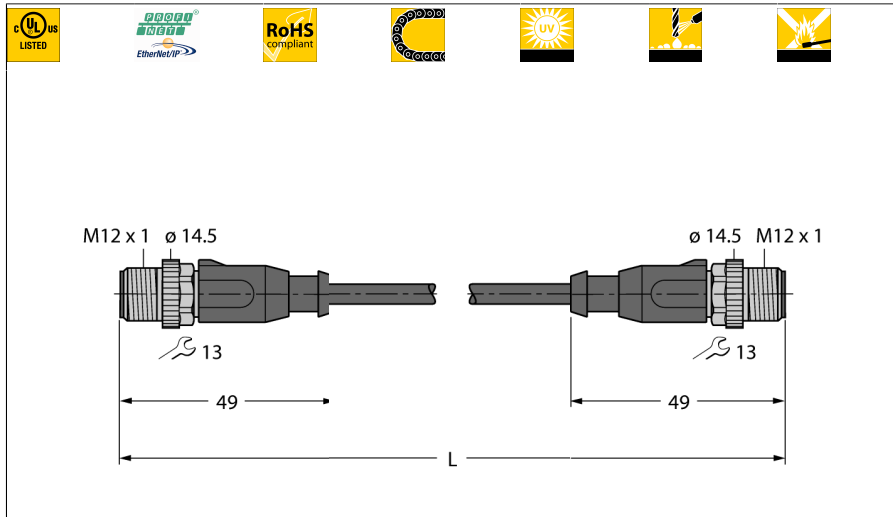


# Industrial Ethernet/PROFINET Cable Extension Cable RSSD-RSSD-4416-1M



- 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
- M12 male, straight
- M12 male connector, straight, D-coded
- Cable length: 1.0 m

|      |                   |
|------|-------------------|
| Type | RSSD-RSSD-4416-1M |
| ID   | 6441650           |

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Connector A               | Male, M12 × 1, Straight, D-coded                             |
| Number of pins            | 4                                                            |
| 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!) |

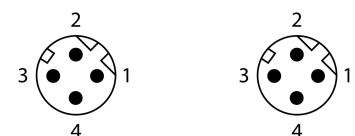
|                     |                                 |
|---------------------|---------------------------------|
| Mechanical lifespan | > 100 Mating cycles             |
| Pollution degree    | 3/2                             |
| Protection class    | IP67, Only in screwed condition |

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Connector B                  | Male, M12 × 1, Straight, D-coded                          |
| Number of Pins               | 4                                                         |
| 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!) |

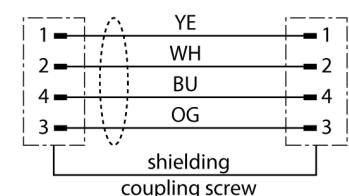
|                  |                                  |
|------------------|----------------------------------|
| Mechanical life  | > 100 Mating cycles              |
| Pollution degree | 3/2                              |
| Protection class | IP67, Only when screwed together |

## Cable

|                        |                                   |
|------------------------|-----------------------------------|
| Network protocol       | Ethernet                          |
| Cable diameter         | Ø 6.5mm ±0.20                     |
| Cable length           | 1 m m                             |
| Cable jacket           | PUR, Green                        |
| Shielding              | Aluminum foil, tinned copper wire |
| Core insulation        | PE                                |
| Core cross-section     | 4 x 0.32 mm <sup>2</sup>          |
| Arrangement of strands | 7 x 0.25mm                        |
| Core colors            | WH, YE, BU, OG                    |



## Circuit Diagram



#### Electrical properties at +20 °C

|                      |              |
|----------------------|--------------|
| Rated voltage        | 48V          |
| Test voltage         | 2000 V       |
| Current              | 3AA          |
| 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)            | ≥ 15 x Ø     |
| Bending cycles                           | ≥ 3 million  |
| Torsional stress                         | ± 180 °/m    |
| Torsion cycles                           | Max. 100,000 |
| Ambient temperature (fixed)              | -50...+70°C  |
| Ambient temperature (mobile)             | -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 |

## Accessories

| Type code             | Ident no. |                                                                                                                                                                   | Dimension drawing |
|-----------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 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) |                   |