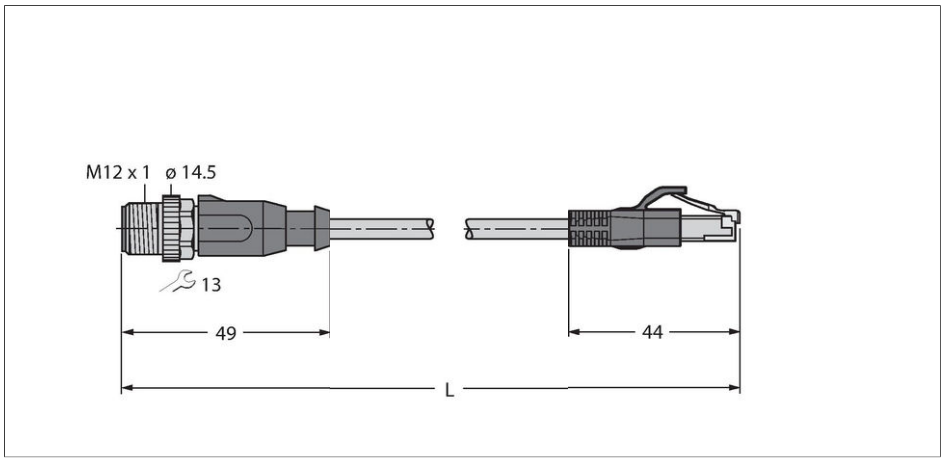
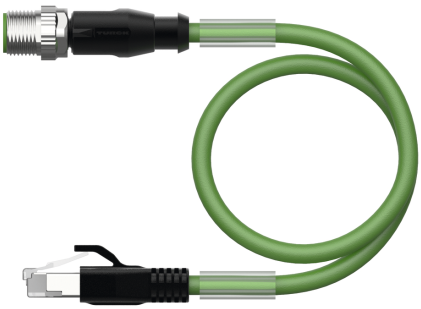
# RSSD-RJ45S-4416-2M
# Industrial Ethernet/PROFINET Cable – Extension Cable



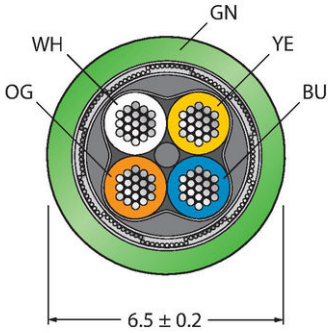
## Technical data

| | |
|---|---|
| Type | RSSD-RJ45S-4416-2M |
| ID no. | 6441631 |
| **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 |
| Type of protection | IP67, Only in screwed condition |
| **Connector B** | Male, RJ45, Straight |
| Number of pins | 4 |
| Contacts | Metal, CuZn, Gold-plated |
| Contact carriers | Plastic, PC |
| Connector body | Plastic, TPU, UL 94 |
| Mechanical lifespan | > 100 Mating cycles |
| Pollution degree | 3/2 |
| Protection class | IP20 |
| **Cable** | |
| Network protocol | Ethernet |
| Cable diameter | Ø 6.5 mm ± 0.20 |
| Cable length | 2 m |
| Cable jacket | PUR, Green |
| Shielding | Aluminum foil, tinned copper wire |

## Features

- M12 male, straight, D-coded
- RJ45 male connector, straight, 4-pin
- Ethernet cable: 4-pin, AWG 22
- CAT 5E
- Jacket material: PUR
- Jacket color: green
- Shield: Aluminum foil overlapped, tinned copper wire
- Jacket diameter: 6.5 mm
- Suitable for drag chain use
- Oil resistant acc. to IEC 60811-2-1 and UL13
- Free from halogen acc. to IEC 60754
- Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1
- RoHS-compliant
- PNO-compliant

## Cable Cross-Section

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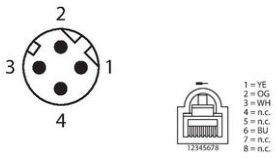
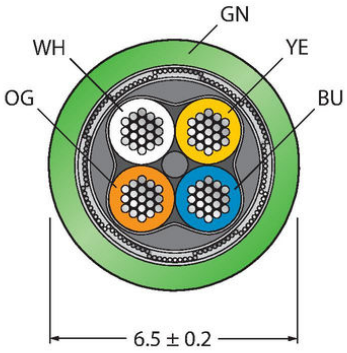
## Technical data

| | |
|---|---|
| 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 | 42 V |
| Test voltage | 2000 V |
| Current | 0.35 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 |
| Ambient temperature range (stationary) | -50 °C…+70 °C |
| Ambient temperature range (In motion) | -20 °C…+60 °C |
| **Other Featues** | |
| Qualified for drag chain use | yes |
| Halogen-free | yes |
| PVC-free | yes |
| UV resistance | yes |
| Oil-resistant | yes |
| Flame-retardant | yes |

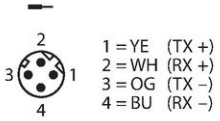
## Contact assignment




## Kupplung RJ45

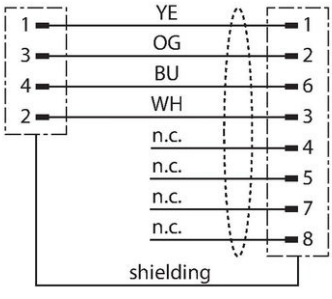



## Pin Assignment




## Stecker M8 x 1

## Circuit Diagram

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## 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)

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