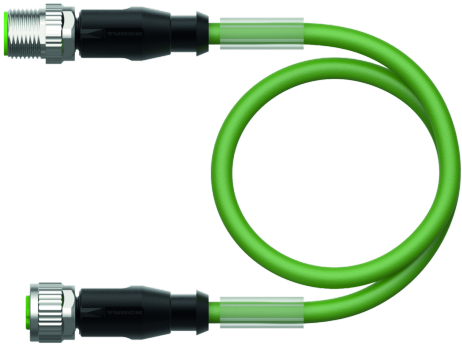
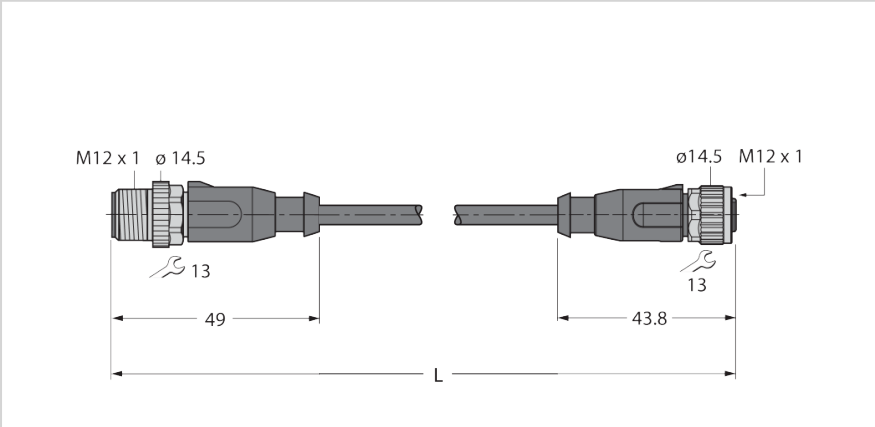


RSSD-RKSD-4416-5M

Industrial Ethernet/PROFINET Cable  
Connection Cable



|                  |                   |
|------------------|-------------------|
| Type designation | RSSD-RKSD-4416-5M |
| Ident-No.        | 100002346         |

Technical data

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Electrical data                          |                                  |
| Current                                  | 3 A                              |
| Rated voltage                            | 48 V                             |
| DC resistance (loop)                     | 120 Ω/km                         |
| Nom. capacitance                         | 50 pF/m                          |
| Nom. impedance                           | 100 Ω (1MHZ)                     |
| Test voltage                             | 2000 V                           |
| Interfaces                               |                                  |
| Network protocol                         | Ethernet                         |
| Mechanical data                          |                                  |
| Bending radius (stationary installation) | ≥5 x Ø                           |
| Bending radius (flexible use)            | ≥15 x Ø                          |
| Bending cycles                           | ≥3 Mio.                          |
| Torsional stress                         | ±180 °/m                         |
| Torsion cycles                           | max. 100,000                     |
| Bending radius                           | Ø200 mm                          |
| Connector A                              |                                  |
| Mechanical lifespan                      | > 100 Mating cycles              |
| Connector A                              | Male, M12 x 1, Straight, D-coded |

Features

- 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 female connector, straight, D-coded
- M12 male connector, straight, D-coded
- Cable length: 5.0 m

## Technical data

|                    |                                 |
|--------------------|---------------------------------|
| 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     |
| Pollution degree   | 3/2                             |
| Protection class   | IP67, Only in screwed condition |

### Connector B

|                              |                                    |
|------------------------------|------------------------------------|
| Mechanical lifespan          | > 100 Mating cycles                |
| Connector B                  | Female, M12 x 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        |
| Seal                         | Plastic, FPM/FKM                   |
| Tightening torque            | 0.4...0,6 Nm                       |
| Pollution degree             | 3/2                                |
| Protection class             | IP67, Only when screwed together   |

### Cable

|                        |                                   |
|------------------------|-----------------------------------|
| Cable diameter         | 6,5 mm ±0.20                      |
| Cable length           | 5 m                               |
| Cable jacket           | PUR, Green                        |
| Overall shield         | 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                    |

### Ambient conditions

|                              |              |
|------------------------------|--------------|
| Ambient temperature (mobile) | -20...+60 °C |
| Ambient temperature (fixed)  | -50...+70 °C |

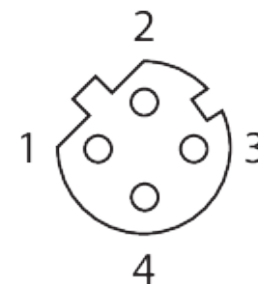
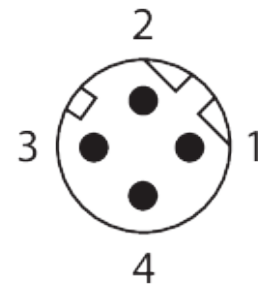
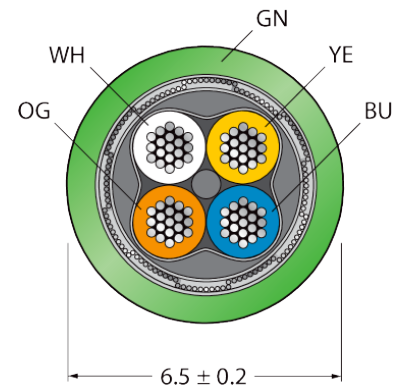
### Tests/approvals

|           |           |
|-----------|-----------|
| Approvals | UL Listed |
|-----------|-----------|

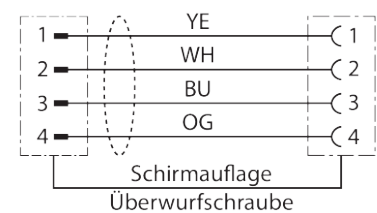
### Other properties

|                              |     |
|------------------------------|-----|
| Qualified for drag chain use | yes |
| Halogen-free                 | yes |
| PVC-free                     | yes |

## Cable Cross-Section



## Circuit Diagram



Technical data

|                 |     |
|-----------------|-----|
| UV resistance   | yes |
| Oil-resistant   | yes |
| Flame-retardant | yes |
| Comments        |     |
| Packaging unit  | 1   |

Mounting 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) |         |