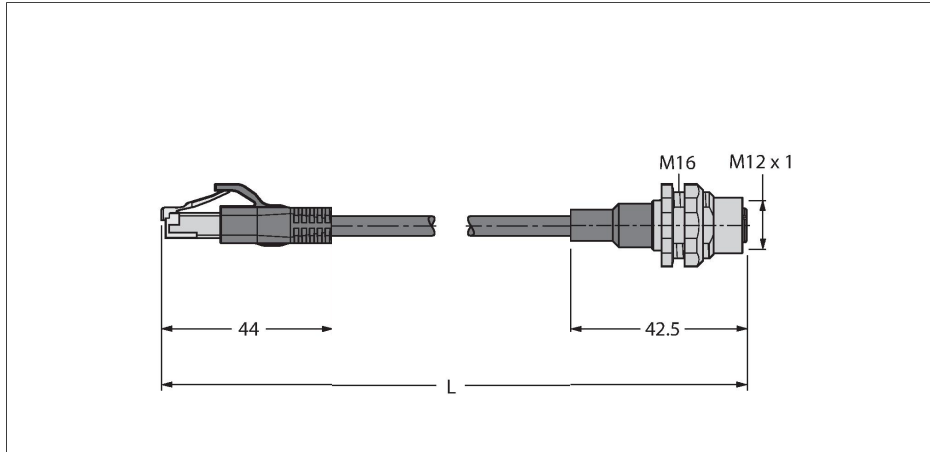


# RJ45S-FKSDD-4414-1M

## Industrial Ethernet Cable – Extension Cable



### Features

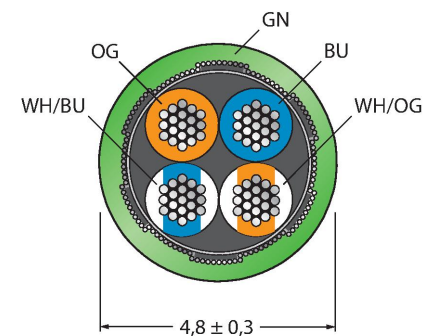


- Ethernet cable: 4-pin, AWG 26
- CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A
- Jacket material: PUR
- Jacket color: green
- Shielding: aluminum-laminated polyester film, copper braid
- Jacket diameter: 4.8 mm
- Suitable for drag chain use
- UV resistant
- Oil resistant acc. to IEC 60811-2-1 and DIN VDE 0282 part 10
- Free from silicone, PVC and LABS
- Free from halogen acc. to IEC 60754-2
- Flame retardant acc. to IEC 60332-1-2
- Approval: cULus
- RoHS compliant
- Protection class IP67
- M12 female flange, straight
- RJ45 male connector, straight, 4-pin
- Cable length: 1.0 m

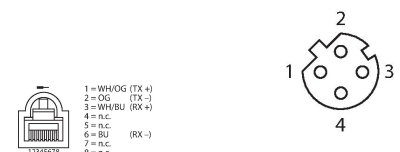
### Technical data

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Type                | RJ45S-FKSDD-4414-1M                                     |
| ID                  | 6935281                                                 |
| Connector A         | Male, RJ45, Straight                                    |
| Number of pins      | 4                                                       |
| Contacts            | Metal, CuZn, Gold-plated                                |
| Contact carriers    | Plastic, PC                                             |
| Connector body      | Plastic, TPU, Black                                     |
| Mechanical lifespan | > 100 Mating cycles                                     |
| Pollution degree    | 3/2                                                     |
| Protection class    | IP20, Only in screwed condition                         |
| Connector B         | Female, M12 × 1, Straight, D-coded                      |
| Number of Pins      | 4                                                       |
| Contacts            | Brass, CuZn, Gold-plated                                |
| Contact carriers    | Plastic, PBT GF, Green                                  |
| Connector body      | Brass, CuZn, Black                                      |
| Seal                | Plastic, FPM/FKM                                        |
| Tightening torque   | 1 ... 1.2 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, 4414                                          |
| Cable diameter      | Ø 4.8 mm ±0.30                                          |
| Cable length        | 1 m                                                     |
| Cable jacket        | PUR, Green                                              |
| Shielding           | Aluminum foil, tinned copper wire                       |
| Core insulation     | PP                                                      |

### Cable Cross-Section



### Contact assignment



### Heading wiring diagram 3

Pin Assignment Right

Technical data

|                                          |                    |
|------------------------------------------|--------------------|
| Core cross-section                       | 4 x 0.15 mm²       |
| Arrangement of strands                   | 19 x 0.102 mm      |
| Core colors                              | WHOG, WHBU, BU, OG |
| Electrical properties at +20 °C          |                    |
| Rated voltage                            | 42 V               |
| Test voltage                             | 700 V              |
| Current                                  | 1.5 A              |
| Nom. impedance                           | 100 Ω (1MHZ)       |
| Nom. capacitance                         | 51 pF/m            |
| Mechanical and chemical properties       |                    |
| Bending radius (stationary installation) | ≥ 15 x Ø           |
| Bending cycles                           | ≥ 5 million        |
| Torsional stress                         | ± 30 °/m           |
| Torsion cycles                           | Max. 100,000       |
| Ambient temperature (fixed)              | -40...+80 °C       |
| Ambient temperature (mobile)             | -25...+80 °C       |
| Other Features                           |                    |
| Qualified for drag chain use             | yes                |
| Halogen-free                             | yes                |
| Silicone-free                            | yes                |
| PVC-free                                 | yes                |
| Resistant to weld splatter               | yes                |
| Resistant to chemicals                   | yes                |
| UV resistance                            | yes                |
| Oil-resistant                            | yes                |
| Flame-retardant                          | yes                |
| Approvals                                | cULus              |

Circuit Diagram

