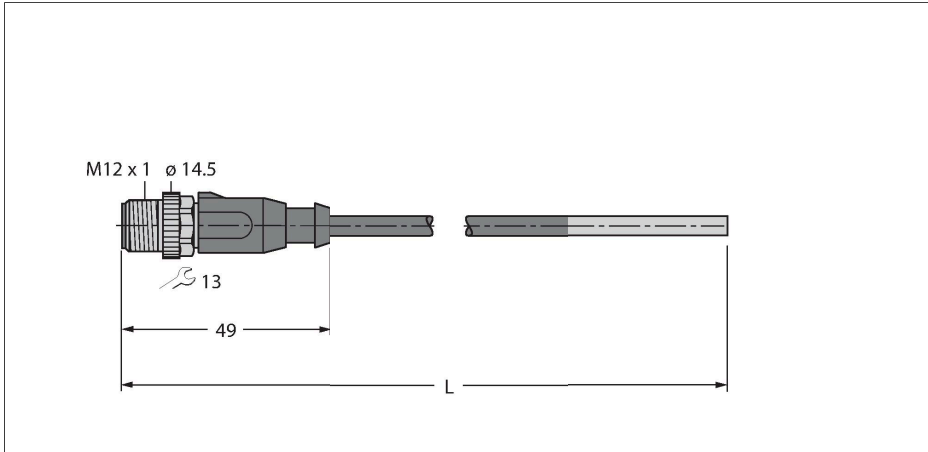


# RSSD-4414-1M

## Industrial Ethernet Cable – Connection Cable



### Technical data

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Type                            | RSSD-4414-1M                                                 |
| ID                              | 6441400                                                      |
| 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                              |
| 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                                                           |
| Core cross-section              | 4 x 0.15 mm <sup>2</sup>                                     |
| 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                         | 3 A                                                          |

### Features

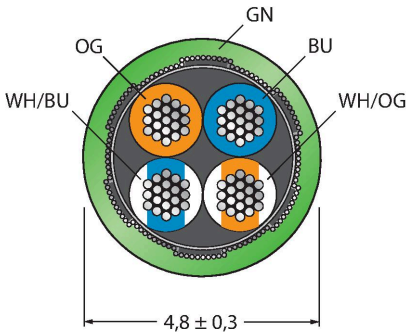


- Ethernet cable: 4-pin, AWG 26
- CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A
- Jacket material: PUR
- Jacket color: green
- Shielding: aluminum-laminated polyester film, copper braid
- Jacket diameter: 4.8 mm
- Suitable for drag chain use
- UV resistant
- Oil resistant acc. to IEC 60811-2-1 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
- End open
- M12 male connector, straight, D-coded
- Cable length: 1.0 m

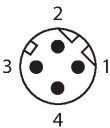
### Cable Cross-Section

Technical data

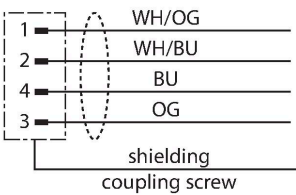
|                                          |              |
|------------------------------------------|--------------|
| Nom. impedance                           | 100 Ω (1MHZ) |
| Nom. capacitance                         | 51 pF/m      |
| Mechanical and chemical properties       |              |
| 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        |



Contact assignment



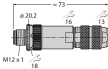
Circuit Diagram

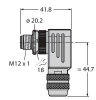


Accessories

|                                                                                                                                                                   |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 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) |         |

Accessories

| Dimension drawing                                                                   | Type                    | ID      |                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------|-------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | FW-M12ST5D-G-SB-ME-SH-8 | 6604218 | Field-wireable male connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 5.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal coupling nut, shieldable, D-coded, for Ethernet |
|  | CMBSD8141-0/PG9         | 6604282 | Field-wireable male connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 6.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal nut, shieldable, D-coded, for Ethernet          |

| Dimension drawing                                                                   | Type                    | ID        |                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | CMBSD8241-0/PG9         | 6604239   | Field-wireable male connector, M12 × 1, angled, 4-pin, screw terminal connection, cable feedthrough 6.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal nut, shieldable, D-coded, for Ethernet                       |
|    | FW-ERSSM0426-FD-P-0408  | 100033307 | Field-wireable male connector, M12 × 1, straight, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal coupling nut; PROFINET CAT5 (100 Mbps)     |
|    | FW-EWSSM0426-FD-P-0408  | 100033310 | Field-wireable male connector, M12 × 1, angled, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal coupling nut; PROFINET CAT5 (100 Mbps)       |
|    | FW-M12KU5D-G-SB-ME-SH-8 | 6604219   | Field-wireable female connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 5.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal nut, shieldable, D-coded, for Ethernet                   |
|  | FW-EWKSM0426-FD-P-0408  | 100033308 | Field-wireable female connector, M12 × 1, angled, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal coupling nut; PROFINET CAT5 (100 Mbit/s)   |
|  | FW-ERKSM0426-FD-P-0408  | 100033304 | Field-wireable female connector, M12 × 1, straight, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², metal housing, metal coupling nut; PROFINET CAT5 (100 Mbit/s) |
|  | FW-RRSSP0822-IE-I-0510  | 100034569 | Field-wireable male connector, RJ45, straight, 8-pin, IDC connection, cable feedthrough 5.5 mm to 10.0 mm, core cross-section/terminal capacity 0.14 mm² to 0.34 mm², metal housing; CAT6A (10 Gigabit Ethernet acc. to IEEE 802.3an)                     |
|  | FW-RWSSP0822-IE-I-0510  | 100034570 | Field-wireable male connector, RJ45, angled, 8-pin, IDC connection, cable feedthrough 5.5 mm to 10.0 mm, core cross-section/terminal capacity 0.14 mm² to 0.34 mm², metal housing; CAT6A (10 Gigabit Ethernet acc. to IEEE 802.3an)                       |