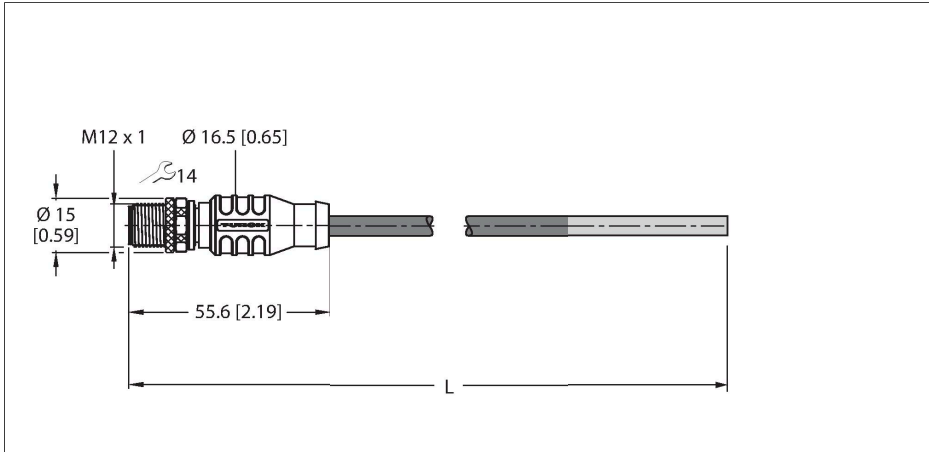


# RSSD-4422-0.5M

## Industrial Ethernet Cable – Connection Cable



### Technical data

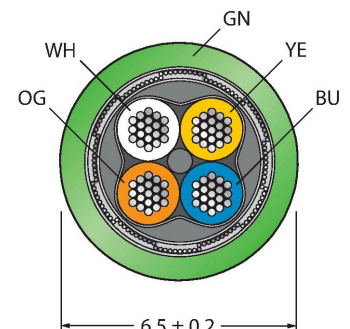
|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Type                            | RSSD-4422-0.5M                                             |
| ID                              | 6635138                                                    |
| Connector A                     | Male, M12 × 1, Straight, D-coded                           |
| Number of pins                  | 4                                                          |
| Contacts                        | Metal, CuZn, Gold-plated                                   |
| Contact carriers                | Plastic, TPU, Black                                        |
| Connector body                  | Plastic, TPU, Black                                        |
| Coupling nut/screw              | Brass, CuZn, Nickel-plated                                 |
| Tightening torque (range)       | 0.8 ... 1 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan             | > 100 Mating cycles                                        |
| Pollution degree                | 3                                                          |
| Protection class                | IP67, Only in screwed condition                            |
| Cable                           |                                                            |
| Network protocol                | Ethernet                                                   |
| Cable diameter                  | Ø 6.5 mm ±0.20                                             |
| Cable length                    | 0.5 m                                                      |
| Cable jacket                    | PUR, Green                                                 |
| Shielding                       | Aluminum foil, tinned copper wire                          |
| Core insulation                 | TPE-O                                                      |
| Core cross-section              | 4 x 0.32 mm <sup>2</sup>                                   |
| Arrangement of strands          | 7 x 0.25 mm                                                |
| Core colors                     | WH, YE, BU, OG                                             |
| Electrical properties at +20 °C |                                                            |
| Rated voltage                   | 30 V                                                       |
| Test voltage                    | 2000 V                                                     |
| Current                         | 4 A                                                        |

### 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 UL FT2, UN/ECE R118
- RoHS compliant
- PNO compliant
- UL
- End open
- M12 male connector, straight, D-coded
- Cable length: 0.5 m

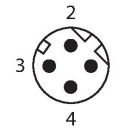
### Cable Cross-Section



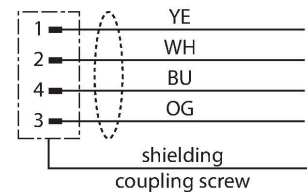
## Technical data

|                                          |              |
|------------------------------------------|--------------|
| 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                           | ≥ 5 million  |
| Torsional stress                         | ± 180 °/m    |
| Torsion cycles                           | Max. 100,000 |
| Ambient temperature (fixed)              | -40...+80 °C |
| Ambient temperature (mobile)             | -30...+80 °C |
| Other Featues                            |              |
| Qualified for drag chain use             | yes          |
| Halogen-free                             | yes          |
| PVC-free                                 | yes          |
| UV resistance                            | yes          |
| Oil-resistant                            | yes          |
| Flame-retardant                          | yes          |
| Approvals                                | UL Listed    |

## Contact assignment



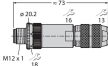
### Circuit Diagram

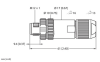
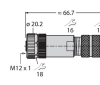
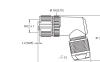
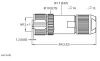
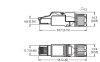
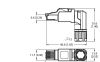


## Accessories

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| TORQUE-WRENCH-SET-AS | 6936170                                                                                                               |
|                      | Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14) |

## 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          |
|  | 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            |

| Dimension drawing                                                                   | Type                    | ID        |                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 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)                       |