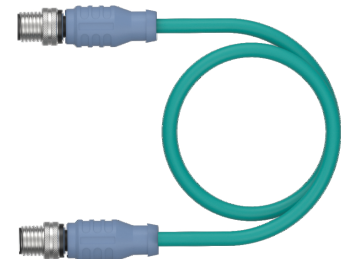
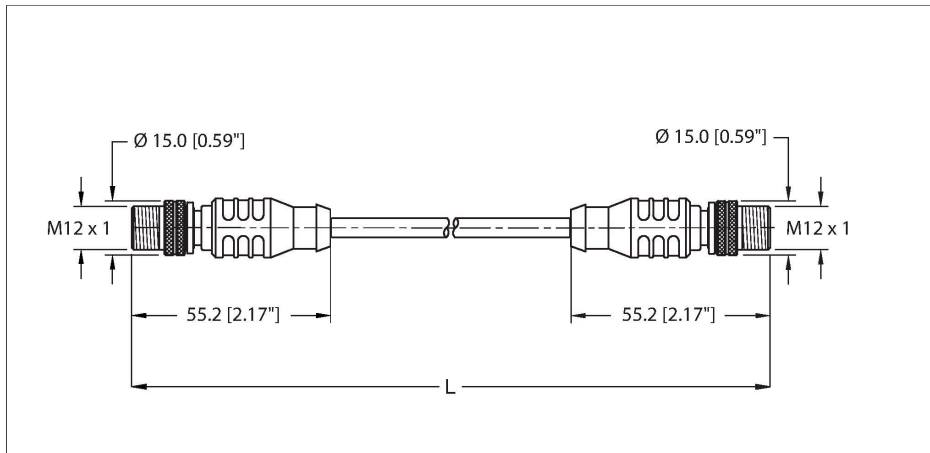


# RSSD RSSD 441-5.1M

## Industrial Ethernet Cable – Extension Cable



### Technical data

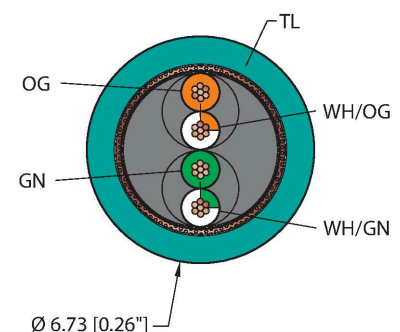
|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RSSD RSSD 441-5.1M                                      |
| ID                              | UX04849                                                 |
| <b>Connector A</b>              |                                                         |
| Connector A                     | Male, M12 × 1, Straight, D-code                         |
| Number of contacts              | 4                                                       |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, TPU, Black                                     |
| Connector body                  | Plastic, TPU, Blue gray                                 |
| Coupling nut                    | Brass, CuZn, Nickel-plated                              |
| Tightening torque (range)       | 0.8 ... 1 Nm<br>(note max. torque of mating connector!) |
| Mechanical life                 | > 100 Mating cycles                                     |
| Pollution degree                | 3                                                       |
| Protection class (When coupled) | IP67                                                    |
| <b>Connector B</b>              |                                                         |
| Connector B                     | Male, M12 × 1, Straight, D-code                         |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 4                                                       |
| Contacts                        | Bronze, CuSn, Gold-plated                               |
| Contact carriers                | Plastic, Nylon or TPU, Black                            |
| Connector body                  | Plastic, TPU, Blue gray                                 |
| Coupling nut                    | Brass, CuZn, Nickel-plated                              |
| Tightening torque               | 0.8 ... 1 Nm<br>(note max. torque of mating connector!) |
| Mechanical life                 | > 100 Mating cycles                                     |
| Pollution degree                | 3                                                       |
| Protection class (When coupled) | IP67                                                    |

### Features



- M12, Male, Straight, 4-pin
- Shield to coupling nut
- D-code
- M12, Male, Straight, 4-pin
- D-code
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, Teal TPE jacket, shielded, 2UTPX24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL 1685, UL1061
- Flexlife® and C-Track Approved

### Cable cross section

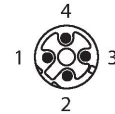


### Contact assignment

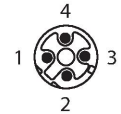
## Technical data

| Cable data                          |                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------|
| Cable ID                            | RF51211                                                                              |
| Fieldbus                            | Ethernet, 441                                                                        |
| Total number of conductors          | 4                                                                                    |
| Cable diameter                      | Ø 6.73 mm                                                                            |
| Length (L)                          | 5.1 m                                                                                |
| Cable jacket                        | TPE, Teal                                                                            |
| Shielding                           | Aluminum/polyester (OUT), 38 AWG, TC (Tinned Copper), 75% coverage                   |
| Conductor material                  | TC (tinned copper)                                                                   |
| Conductor colors                    | OG, WH/OG, GN, WH/GN                                                                 |
| Sub assembly 1                      |                                                                                      |
| Description of assembly             | UTP (Unshielded Twisted Pair)                                                        |
| Number of pairs                     | 2                                                                                    |
| Conductor diameter                  | 0.048 "                                                                              |
| Conductor insulation material       | HDPE                                                                                 |
| Cable conductor cross-section       | 2x24 AWG [Similar to 0.25 mm²]                                                       |
| Number of strands x O.D.            | 7x32 AWG                                                                             |
| Electrical properties at +20 °C     |                                                                                      |
| Rated voltage                       | 30 V <sub>AC</sub> /42 V <sub>DC</sub>                                               |
| Current                             | 1.5 A                                                                                |
| Mechanical and chemical properties  |                                                                                      |
| Bending radius (static)             | ≥ 4 x Ø                                                                              |
| Bending radius (dynamic)            | ≥ 10 x Ø                                                                             |
| Bending radius (C-track)            | ≥ 4 In.                                                                              |
| Bending cycles (C-track)            | 35 Million *                                                                         |
| Torsional stress                    | ± 270 °/m                                                                            |
| Torsion rating                      | Max. 3 million                                                                       |
| Torsional stress                    | 52 Cycles/min                                                                        |
| UL cold bend rating                 | -40 °C                                                                               |
|                                     | *When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second. |
| C-Track                             | Yes                                                                                  |
| Ambient temperature range (static)  | -40...+80 °C                                                                         |
| Ambient temperature range (dynamic) | 5...+80 °C                                                                           |
| Temperature range (installation)    | -10...+80 °C                                                                         |
| Approval                            |                                                                                      |
| Approvals                           | UL 1863<br>CE                                                                        |

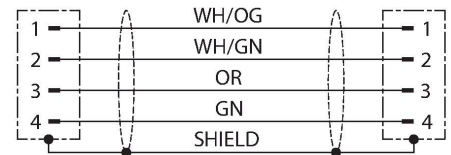
Connector A



Connector B



## Circuit Diagram



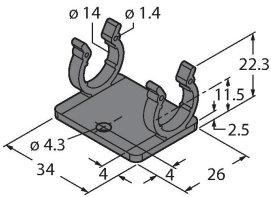
Technical data

UKCA  
RoHS

| Note                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius. |
| - We reserve the right to make technical alterations without prior notice.                                                                                                           |

Accessories

M12-CORDSETS-MOUNTING-CLIP-(10/BAG) 100016882



10 Pack of black mounting clips and M4x8mm mounting screws, used to secure cable to cable connection points.