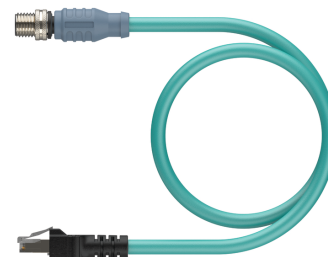
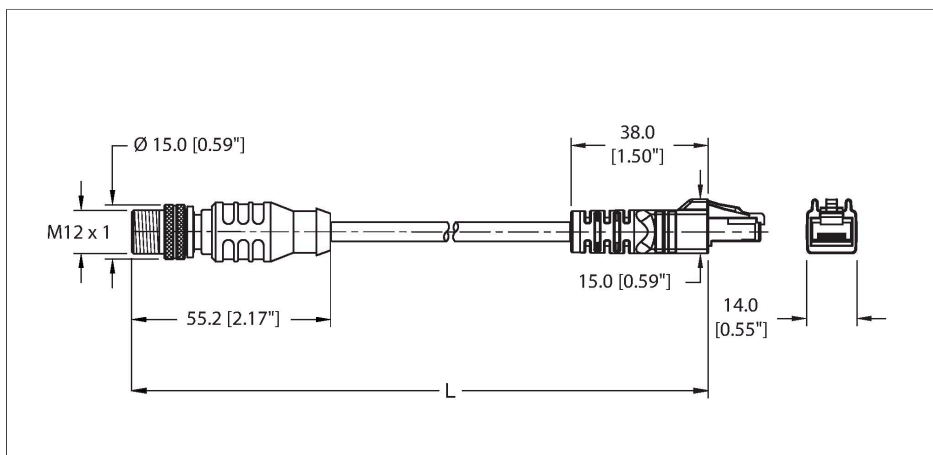


# RSSD RJ45S 441-0.6M

## Industrial Ethernet Cable – Extension Cable



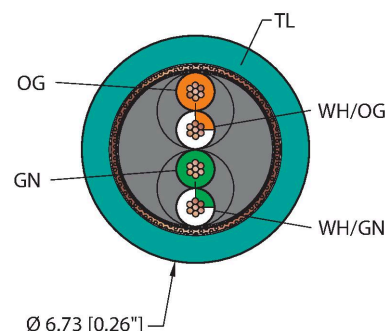
### Technical data

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RSSD RJ45S 441-0.6M                                     |
| ID                              | U-54912                                                 |
| 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                                                    |
| Connector B                     | Male, RJ45, Straight                                    |
| Number of contacts              | 8                                                       |
| Contacts                        | Bronze, CuSn, Gold-plated                               |
| Contact carriers                | Plastic, PC, Transparent                                |
| Connector body                  | Plastic, TPU, Black                                     |
| Protection class (When coupled) | IP20                                                    |
|                                 | NEMA: 1                                                 |
| Cable data                      |                                                         |
| Cable ID                        | RF51211                                                 |
| Fieldbus                        | Ethernet, 441                                           |
| Total number of conductors      | 4                                                       |

### Features

- M12, Male, Straight, 4-pin
- Shield to coupling nut
- D-code
- RJ45, Male, Straight, 8-pin, Shielded
- 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 diameter     | Ø 6.73 mm                                                          |
| Length (L)         | 0.6 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 | 42 V                                   |
| 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         |

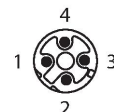
\*When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second.

|                                     |              |
|-------------------------------------|--------------|
| C-Track                             | Yes          |
| Ambient temperature range (static)  | -40...+80 °C |
| Ambient temperature range (dynamic) | 5...+80 °C   |
| Temperature range (installation)    | -10...+80 °C |

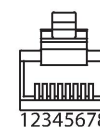
### Approval

|           |                               |
|-----------|-------------------------------|
| Approvals | UL 1863<br>CE<br>UKCA<br>RoHS |
|-----------|-------------------------------|

Connector A



Connector B



## Circuit Diagram

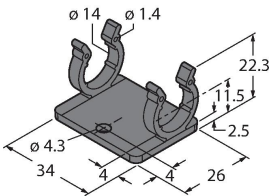


Technical data

|      |                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | <div>- 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.</div> <div>- We reserve the right to make technical alterations without prior notice.</div> |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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.