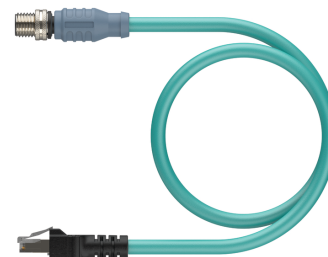
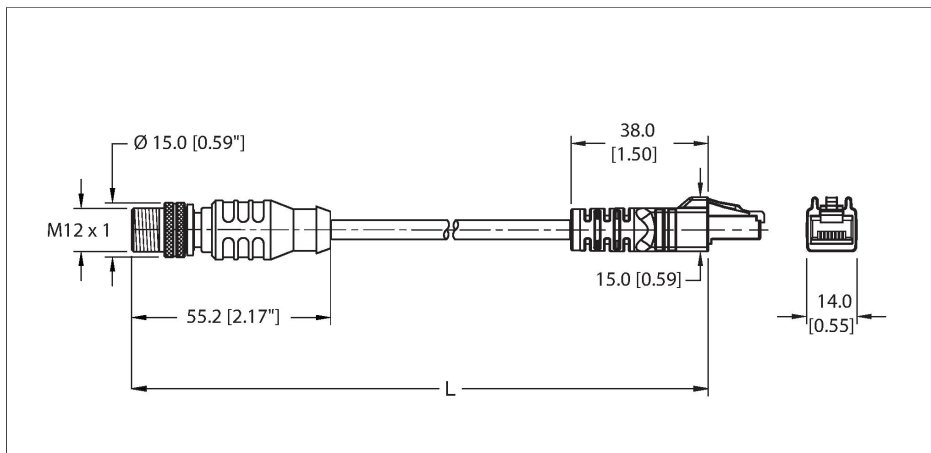


# RSSD RJ45 441-50M

## Industrial Ethernet Cable – Patch Cable



### Technical data

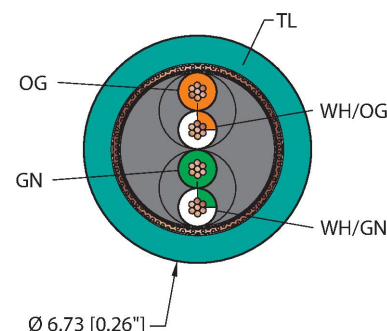
|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RSSD RJ45 441-50M                                       |
| ID                              | U-67107                                                 |
| 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                                     |
| Pollution degree                | 2                                                       |
| Protection class (When coupled) | IP20                                                    |
|                                 | NEMA: 1                                                 |
| Cable data                      |                                                         |
| Cable ID                        | RF51211                                                 |
| Fieldbus                        | Ethernet, 441                                           |

### Features



- M12, Male, Straight, 4-pin
- Shield to coupling nut
- D-code
- RJ45, Male, Straight, 8-pin
- 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

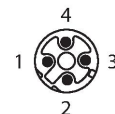


### Contact assignment

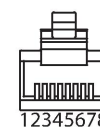
## Technical data

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| Total number of conductors                | 4                                                                                    |
| Cable diameter                            | Ø 6.73 mm                                                                            |
| Length (L)                                | 50 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                                                                 |
| <b>Sub assembly 1</b>                     |                                                                                      |
| 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                                                                             |
| <b>Electrical properties at +20 °C</b>    |                                                                                      |
| Rated voltage                             | 42 V                                                                                 |
| Current                                   | 1.5 A                                                                                |
| <b>Mechanical and chemical properties</b> |                                                                                      |
| 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                                                                         |
| <b>Approval</b>                           |                                                                                      |
| Approvals                                 | UL 1863<br>CE<br>UKCA<br>RoHS                                                        |

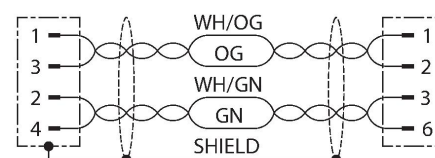
Connector A



Connector B



## Circuit Diagram

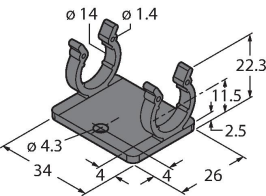


Technical data

|      |                                                                                                                                                                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | <div data-bbox="583 346 1026 483"><p>- 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.</p></div> <div data-bbox="583 499 1026 564"><p>- We reserve the right to make technical alterations without prior notice.</p></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.