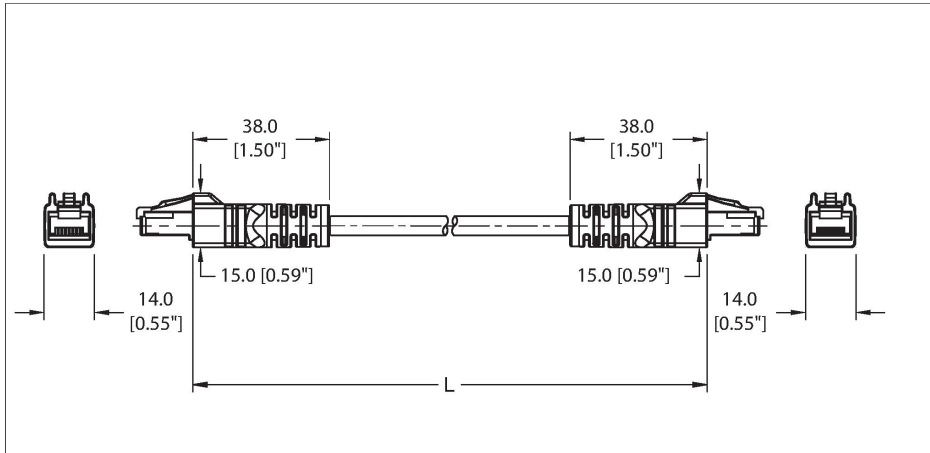


# RJ45S RJ45S 441-100M

## Industrial Ethernet Cable – Extension Cable



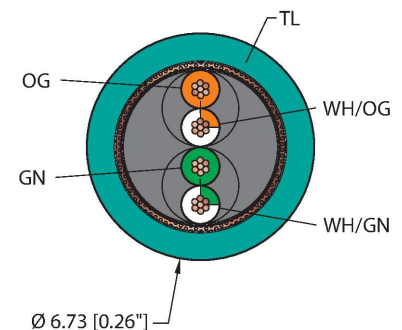
### Technische Daten

|                                 |                           |
|---------------------------------|---------------------------|
| Type                            | RJ45S RJ45S 441-100M      |
| ID                              | U-83470                   |
| Connector A                     | 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                   |
| 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                         |
| Cable diameter                  | Ø 6.73 mm                 |
| Length (L)                      | 100 m                     |
| Cable jacket                    | TPE, Teal                 |

### Features

- RJ45, Male, Straight, 8-pin, Shielded
- 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

Technische Daten

|                                                                                                                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 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                                                                                 |
| 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 Listed<br>CE<br>UKCA<br>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. |                                                                                      |

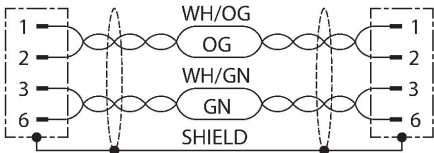
Connector A



Connector B



Circuit Diagram



## Technische Daten

- We reserve the right to make technical alterations without prior notice.

---