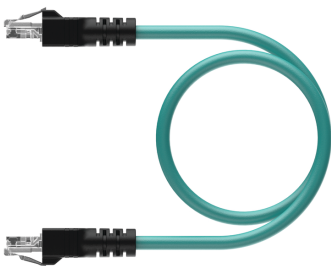
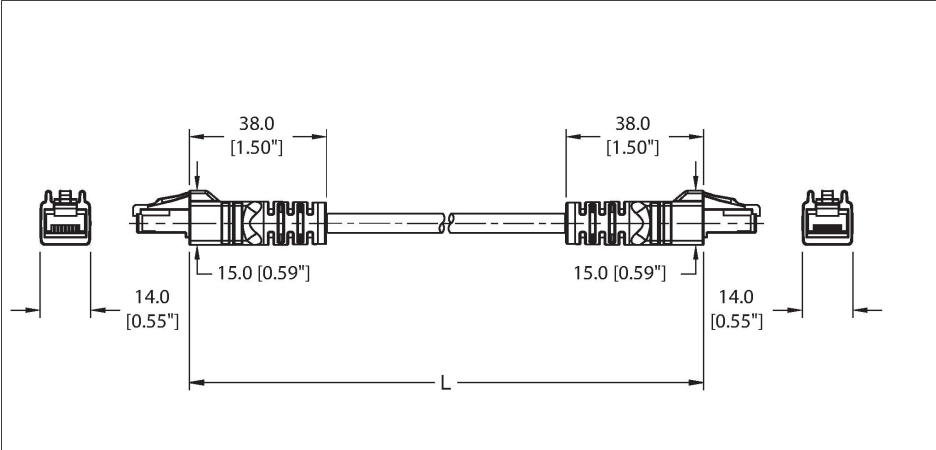


# RJ45S RJ45S 841-10M

## Industrial Ethernet Cable – Extension Cable



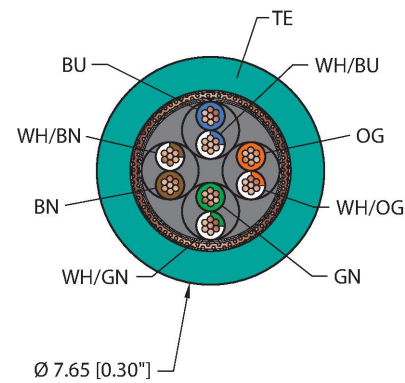
### Technical data

|                    |                                                                   |
|--------------------|-------------------------------------------------------------------|
| Type               | RJ45S RJ45S 841-10M                                               |
| ID                 | U8636-10                                                          |
| Connector A        | Male, RJ45, Straight                                              |
| Number of pins     | 8                                                                 |
| Contacts           | Bronze, CuSn, Gold-plated                                         |
| Contact carriers   | Plastic, PC, Transparent                                          |
| Connector body     | Plastic, TPU, Black                                               |
| Protection class   | IP20                                                              |
|                    | NEMA: 1                                                           |
| Connector B        | Male, RJ45, Straight                                              |
| Number of Pins     | 8                                                                 |
| Contacts           | Bronze, CuSn, Gold-plated                                         |
| Contact carriers   | Plastic, PC, Transparent                                          |
| Connector body     | Plastic, TPU, Black                                               |
| Protection class   | IP20                                                              |
|                    | NEMA: 1                                                           |
| Cable              |                                                                   |
| Cable ID           | RF50893                                                           |
| Network protocol   | Ethernet, 841                                                     |
| Number of cores    | 8                                                                 |
| Cable diameter     | Ø 7.65 mm                                                         |
| Cable length       | 10 m                                                              |
| Cable jacket       | TPE, Teal                                                         |
| Shielding          | Aluminum/polyester (OUT), 38 AWG, TC (tinned copper), 75% covered |
| Conductor material | TC (tinned copper)                                                |
| Core colors        | WH/OG, OG, WH/GN, GN, WH/BN, BN, WH/BU, BU                        |

### Features

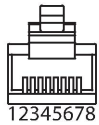
- Cable length: 10 m
- RJ45 male connector, straight, 8-pin
- RJ45, Male, Straight, 8-pin, Shielded
- Industrial Ethernet cable
- Fieldbus type: Ethernet CAT5E, TPE jacket, teal, shielded, 4UTP × 24 AWG
- -40 °C cold bending strength
- Fire classes: UL 1685, UL1061
- Flexlife and C-Track approved

### Cable Cross-Section



### Contact assignment

Connector A Connector B



Technical data

| Subassembly 1                                                                                                                                                                                         |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Description of assembly                                                                                                                                                                               | UTP (unshielded twisted pair)             |
| Number of pairs                                                                                                                                                                                       | 4                                         |
| Conductor diameter                                                                                                                                                                                    | 0.046 "                                   |
| Core insulation                                                                                                                                                                                       | HDPE                                      |
| Core cross-section                                                                                                                                                                                    | 2x24 AWG [Similar to 0.25 mm²]            |
| braid arrangement                                                                                                                                                                                     | 7x32 AWG                                  |
| Electrical properties at +20 °C                                                                                                                                                                       |                                           |
| Rated voltage                                                                                                                                                                                         | 42 V                                      |
| Current                                                                                                                                                                                               | 1.5 A                                     |
| Mechanical and chemical properties                                                                                                                                                                    |                                           |
| Bending radius (stationary installation)                                                                                                                                                              | ≥ 4 x Ø                                   |
| Bending radius (C-Track)                                                                                                                                                                              | ≥ 4 In.                                   |
| Bending cycles (C-Track)                                                                                                                                                                              | 35 Million *                              |
| Torsional stress                                                                                                                                                                                      | ± 270 °/m                                 |
| Torsion cycles                                                                                                                                                                                        | Max. 3 million                            |
| Torsion speed                                                                                                                                                                                         | 52 Cycles/min                             |
| Cold flexural strength                                                                                                                                                                                | -40 °C                                    |
|                                                                                                                                                                                                       | When correctly installed at 20 °C, 50% RH |
| C-track                                                                                                                                                                                               | Yes                                       |
| Ambient temperature (fixed)                                                                                                                                                                           | -40...+80 °C                              |
| Ambient temperature (mobile)                                                                                                                                                                          | 5...+80 °C                                |
| Ambient temperature during installation                                                                                                                                                               | -10...+80 °C                              |
| Approval                                                                                                                                                                                              |                                           |
| Approvals                                                                                                                                                                                             | UL Listed<br>CE<br>UKCA<br>RoHS           |
| Note                                                                                                                                                                                                  |                                           |
| Using the cable in extreme temperatures, when it is exposed to certain chemicals and above the nominal cycle speed or below the nominal bending radius of the cable can reduce the flexural strength. |                                           |
| - We reserve the right to make technical modifications without prior notice.                                                                                                                          |                                           |

Circuit Diagram

