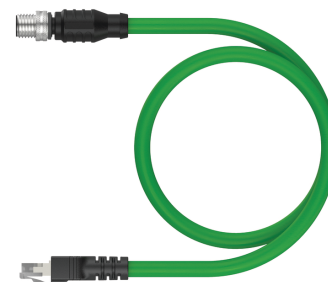
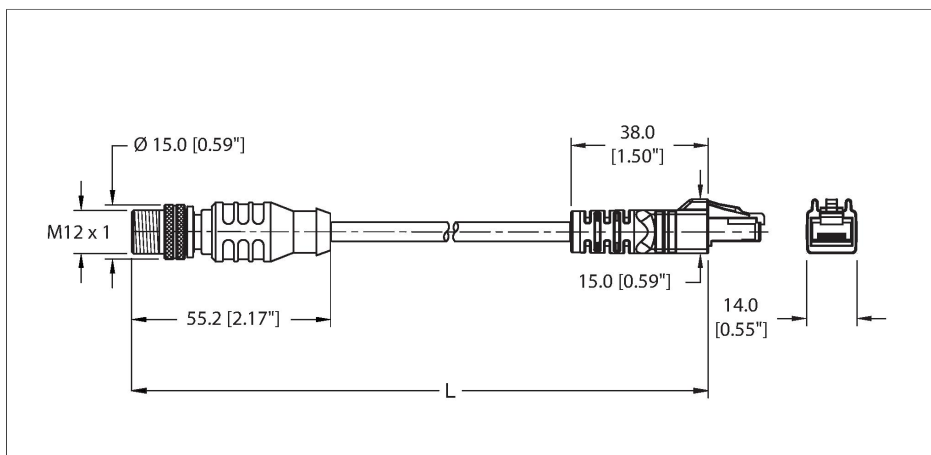


# RSSD RJ45S 423-90M

## PROFINET Cordset – Extension Cable



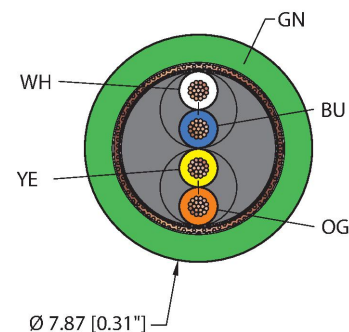
### Technical data

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RSSD RJ45S 423-90M                                      |
| ID                              | U-88559                                                 |
| 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                        | RF52558                                                 |
| Fieldbus                        | PROFINET, 423/420                                       |
| Total number of conductors      | 4                                                       |

### Features

- UL US CE UK CA RoHS compliant
- M12, Male, Straight, 4-pin
- Shield to coupling nut
- D-code
- RJ45, Male, Straight, 8-pin, Shielded
- Unshielded Twisted Pair
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, Green TPE jacket, shielded, 2UTPX22 AWG
- Sunlight Resistant
- Oil Resistant
- Flame Ratings: UL 1685, UL1061
- Flexlife® and C-track rated

### Cable cross section



### Contact assignment

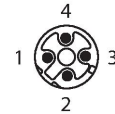
## Technical data

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| Cable diameter                            | Ø 7.87 mm                                                                            |
| Length (L)                                | 90 m                                                                                 |
| Cable jacket                              | TPE, Green                                                                           |
| Shielding                                 | Aluminum/polyester (OUT), 38 AWG, TC (Tinned Copper), 75% coverage                   |
| Conductor material                        | TC (tinned copper)                                                                   |
| Conductor colors                          | WH, BU, YE, OG                                                                       |
| Description of assembly                   | UTP (Unshielded Twisted Pair)                                                        |
| Number of pairs                           | 2                                                                                    |
| Conductor diameter                        | 0.058 "                                                                              |
| Conductor insulation material             | HDPE                                                                                 |
| Cable conductor cross-section             | 2x22 AWG [Similar to 0.34 mm²]                                                       |
| Number of strands x O.D.                  | 19x0.0058 "                                                                          |
| <b>Electrical properties at +20 °C</b>    |                                                                                      |
| Rated voltage                             | 42 V                                                                                 |
| Rated voltage                             | 30 V <sub>AC</sub> /42 V <sub>DC</sub>                                               |
| 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                          | ± 180 °/m                                                                            |
| Torsion rating                            | Max. 5 million                                                                       |
| Torsional stress                          | 52 Cycles/min                                                                        |
|                                           | *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>FM Div.2<br>CE<br>UKCA<br>RoHS                                            |

### Note

- Flex ratings may be reduced if used in extreme temperatures, exposure to

Connector A



Connector B



## Circuit Diagram



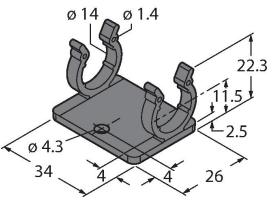
Technical data

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.