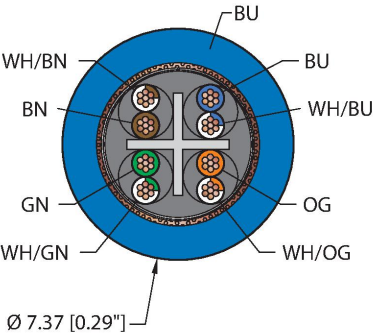


BLU,TPE,4UTPX26,S-BF,CM,FL,EN,CAT6A,SND  
Industrial Ethernet Cable – Reelfast™ Bulk Cable

Features



- Unshielded Twisted Pair
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT6A, Blue TPE jacket, shielded, 4UTPX26 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL 1666, UL1061
- Flexlife® and C-Track Approved
- UL AWM 600V
- UL/CSA CMX OUTDOOR 300V
- CM 300V



Technische Daten

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Type                            | BLU,TPE,4UTPX26,S-BF,CM,FL,EN,CAT6A,SND                            |
| ID                              | RF52025                                                            |
| Cable data                      |                                                                    |
| Cable Platform                  | Industrial Ethernet Cable                                          |
| Fieldbus                        | Ethernet, 862BU                                                    |
| Total number of conductors      | 8                                                                  |
| Cable diameter                  | Ø 7.37 mm                                                          |
| Cable jacket                    | TPE, Blue                                                          |
| Shielding                       | Aluminum/polyester (OUT), 38 AWG, TC (Tinned Copper), 75% coverage |
| Conductor material              | TC (tinned copper)                                                 |
| Conductor colors                | WH/OG, OG, WH/GN, GN, WH/BN, BN, WH/BU, BU                         |
| Description of assembly         | UTP (Unshielded Twisted Pair)                                      |
| Number of pairs                 | 4                                                                  |
| Conductor diameter              | 0.034 "                                                            |
| Conductor insulation material   | HDPE                                                               |
| Cable conductor cross-section   | 2x26 AWG [Similar to 0.14 mm²]                                     |
| Number of strands x O.D.        | 7x34 AWG                                                           |
| Weight                          | 0.133 lbs. /meter                                                  |
| Electrical properties at +20 °C |                                                                    |
| Voltage                         | UL AWM 600V<br>UL/CSA CMX OUTDOOR 300V<br>CM 300V                  |

BLU,TPE,4UTPX26,S-BF,CM,FL,EN,CAT6A,SND 22-02-2025 02-06 | Technische Änderungen vorbehalten

## Technische Daten

|                                                      |                                                                                            |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Mutual capacitance                                   | 1kHz 5.6 nF/100m                                                                           |
| Rated voltage                                        | 300 V                                                                                      |
| DC resistance                                        | 44.4 $\Omega$ /1000ft                                                                      |
| DC resistance imbalance                              | 4 %                                                                                        |
| Coupler loss                                         | $30 \leq f \leq 100$ MHz 85-20 LOG ( f/100) dB min., 85 dB min.                            |
| Transmission impedance of the surface                | $1 \leq f \leq 100$ MHz 1000 m $\Omega$ /m                                                 |
| <b>Cable test information</b>                        | Starting at the reel, the following items are checked. (100-m cable)                       |
| Capactance pair to ground                            | MAX 1kHz 330 pF/100m                                                                       |
| Return loss 1                                        | $1 \leq f < 10$ MHz 20 + 5 LOG(f) dB min.                                                  |
| Return loss 2                                        | $10 \leq f < 20$ MHz 25 dB min.                                                            |
| Return loss 3                                        | $20 \leq f \leq 100$ MHz 25 - 7 LOG(f/20) dB min.                                          |
| Insertion loss                                       | $1 \leq f \leq 500$ MHz $1.5[1.82 \sqrt{f} + 0.0091(f) + 0.25/\sqrt{f}]$ dB MAX            |
| Close-range cross talk                               | $1 \leq f \leq 500$ MHz 44.3 - 15 LOG(f/100) dB MIN                                        |
| Total power of close-range cross talk                | $1 \leq f \leq 500$ MHz 42.3 - 15 LOG(f/100) dB min.                                       |
| Ratio of loss — Long-range cross talk                | $1 \leq f \leq 500$ MHz 27.8 - 20 LOG(f/100) dB min.                                       |
| Total power of ratio of loss — Long-range cross talk | $1 \leq f \leq 500$ MHz 24.8 - 20 LOG(f/100) dB min.                                       |
| Runtime delay                                        | $1 \leq f \leq 100$ MHz 534 + 36/ $\sqrt{f}$ ns max                                        |
| Runtime delay offset                                 | $1 \leq f \leq 500$ MHz <45ns                                                              |
| <b>Mechanical and chemical properties</b>            |                                                                                            |
| Bending radius (static)                              | $\geq 4 \times \varnothing$                                                                |
| Bending radius (dynamic)                             | $\geq 10 \times \varnothing$                                                               |
| Bending radius (C-track)                             | $\geq 4$ In.                                                                               |
| Bending cycles (C-track)                             | 35 Million *                                                                               |
| Admissible acceleration                              | Max. 16.7 m/s <sup>2</sup>                                                                 |
| Admissible travel path, horizontal                   | 0.6 m (at 16.7 m/s <sup>2</sup> )                                                          |
| Admissible traversing speed                          | 1.2 m/s                                                                                    |
| Torsional stress                                     | $\pm 270$ °/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 $\leq 0.5$ cycles per second. |
| C-Track                                              | Yes                                                                                        |

Technische Daten

|                                                                                                                                                                                      |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Ambient temperature range (static)                                                                                                                                                   | -40...+80 °C          |
| Ambient temperature range (dynamic)                                                                                                                                                  | 5...+80 °C            |
| Temperature range (installation)                                                                                                                                                     | -10...+80 °C          |
| Approval                                                                                                                                                                             |                       |
| UL Approvals                                                                                                                                                                         | UL 444 CMX OUTDOOR-CM |
| CSA Approvals                                                                                                                                                                        | CMX OUTDOOR-CM        |
| Compliances                                                                                                                                                                          | RoHS<br>CE            |
| 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. |                       |
| - We reserve the right to make technical alterations without prior notice.                                                                                                           |                       |