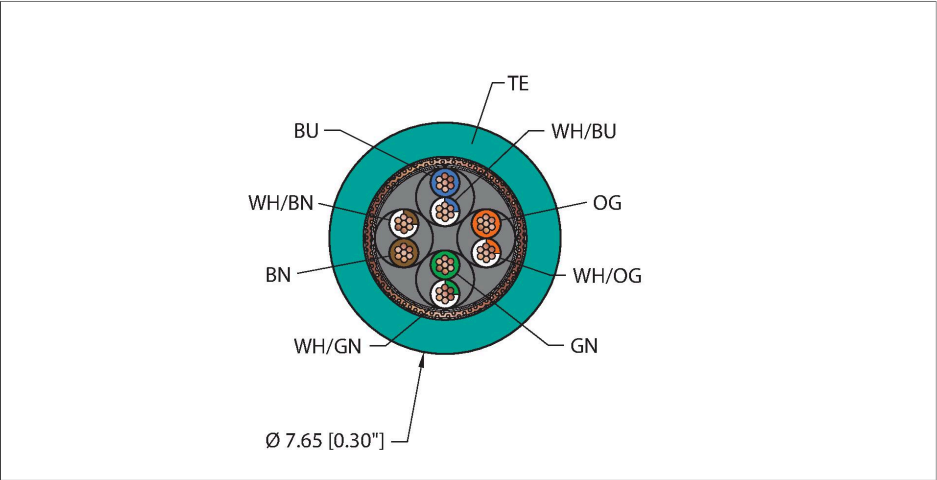


TEA,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND
Industrial Ethernet Cable – Reelfast™ Bulk Cable



Features

- Unshielded Twisted Pair
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, Teal TPE jacket, shielded, 4UTPX24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL 1685, UL1061
- Flexlife® and C-Track Approved
- UL AWM 600V
- UL/CSA CMX OUTDOOR 300V
- CM 300V

Technical data

| | |
|---------------------------------|--|
| Type | TEA,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND |
| ID | RF50893 |
| Cable data | |
| Cable Platform | Industrial Ethernet Cable |
| Fieldbus | Ethernet CAT5E, 841 |
| Total number of conductors | 8 |
| Cable diameter | Ø 7.65 mm |
| Cable jacket | TPE, Teal |
| Shield | Aluminum/polyester (OUT) |
| Braided material | 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 |
| Sub assembly 1 | |
| Description of assembly | UTP (Unshielded Twisted Pair) |
| Number of pairs | 4 |
| Conductor diameter | 0.046 " |
| Conductor insulation material | HDPE |
| Cable conductor cross-section | 2x24 AWG [Similar to 0.25 mm²] |
| Number of strands x O.D. | 7x32 AWG |
| Weight | 0.141 lbs. /meter |
| Electrical properties at +20 °C | |
| Voltage | UL AWM 600V |

TEA,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND 06/07/2023 08-21 | technical changes reserved

Technical data

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|---|--|
| | UL/CSA CMX OUTDOOR 300V CM 300V |
| Dielectric strength | 2000 V RMS |
| Mutual capacitance | 1kHz 5.6 nF/100m |
| Rated voltage | 600 V |
| DC resistance | 26.5 Ω /1000ft max |
| DC resistance imbalance | 5 % |
| Coupler loss | 30 $\leq f \leq$ 100 MHz 55-20 LOG (f/100) dB MIN, 55 dB min |
| Transmission impedance of the surface | 1 $\leq f \leq$ 100 MHz 10 f m Ω /m |
| Cable test information | 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 $\leq f \leq$ 100 MHz 1.2[1.967 \sqrt{f} + 0.023(f) + 0.050/ \sqrt{f}] dB max. |
| Close-range cross talk | 1 $\leq f \leq$ 100 MHz 35.3 - 15 LOG(f/100) dB min |
| Total power of close-range cross talk | 1 $\leq f \leq$ 100 MHz 32.3 - 15 LOG(f/100) dB min. |
| Ratio of loss — Long-range cross talk | 1 $\leq f \leq$ 100 MHz 23.8 - 20 LOG(f/100) dB min. |
| Total power of ratio of loss — Long-range cross talk | 1 $\leq f \leq$ 100 MHz 20.8 - 20 LOG(f/100) dB min. |
| Runtime delay | 1 $\leq f \leq$ 100 MHz 534 + 36/ \sqrt{f} ns max |
| Runtime delay offset | 1 $\leq f \leq$ 100 MHz <45ns |
| Mechanical and chemical properties | |
| Bending radius (static) | $\geq 4 \times \varnothing$ |
| Bending radius (C-track) | ≥ 4 In. |
| Bending cycles (C-track) | 35 Million * |
| Admissible acceleration | Max. 16.7 m/s ² |
| Admissible travel path, horizontal | 0.6 m (at 16.7 m/s ²) |
| Admissible traversing speed | 1.2 m/s |
| Torsional stress | ± 270 °/m @ 52 Cycles/min |
| Torsion rating | 3 million cycles * |
| UL cold bend rating | -40 °C |
| | *When correctly installed at 20 °C, 50 % RH. |
| C-Track | Yes |

Technical data

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|-------------------------------------|--|
| Ambient temperature range (static) | -40 °C...+80 °C |
| Ambient temperature range (dynamic) | 5 °C...+80 °C |
| Temperature range (installation) | -10 °C...+80 °C |
| Approval | |
| UL Approvals | UL 444 CMX OUTDOOR-CM UL 758 AWM 2463 |
| CSA Approvals | CMX OUTDOOR-CM |
| Compliances | RoHS 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. |