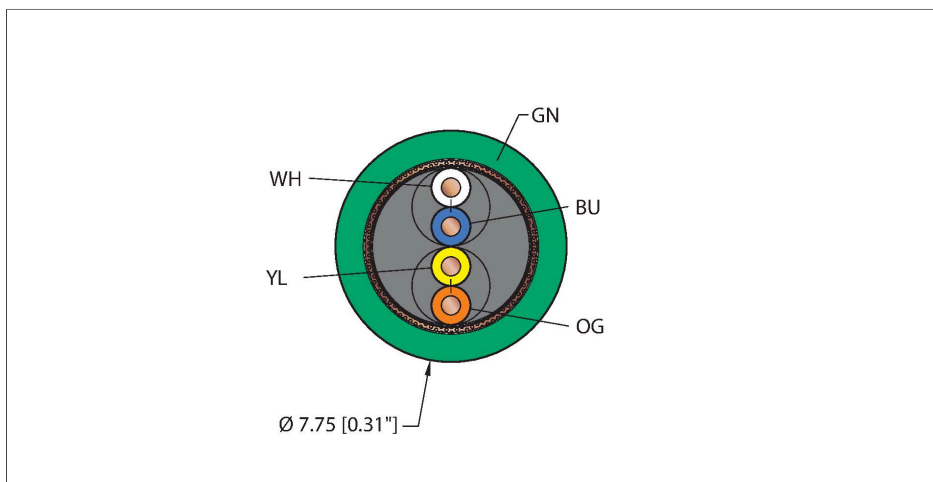


# GRN,TPE,2UTPX22,S-BF,ITC,PN,CAT5E,SLD Industrial Ethernet Cable – Reelfast™ Bulk Cable



## Features

- Unshielded Twisted Pair
- Industrial Ethernet Cable
- fieldbus type: PROFINET, Green TPE jacket, shielded, 2UTPX22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL1685, FT1
- ITC 150V
- PLTC 300V
- UL AWM 600V

## Technical data

|  |   |
|--|---|
| Type                                   | GRN,TPE,2UTPX22,S-BF,ITC,PN,CAT5E,SLD       |
| ID                                     | RF51604                                     |
| <b>Cable data</b>                      |   |
| Cable Platform                         | Industrial Ethernet Cable                   |
| Fieldbus                               | PROFINET, 421                               |
| Total number of conductors             | 4   |
| Cable diameter                         | Ø 7.75 mm                                   |
| Cable jacket                           | TPE, Green                                  |
| Shield                                 | Aluminum/polyester (OUT)                    |
| Braided material                       | 38 AWG, TC (Tinned Copper), 75% coverage    |
| Conductor material                     | TC (tinned copper)                          |
| Conductor colors                       | WH, BU, YL, OG                              |
| Description of assembly                | UTP (Unshielded Twisted Pair)               |
| Number of pairs                        | 2   |
| Conductor diameter                     | 0.054 "                                     |
| Conductor insulation material          | HDPE  |
| Cable conductor cross-section          | 2x22 AWG [Similar to 0.34 mm <sup>2</sup> ] |
| Number of strands x O.D.               | 1x22 AWG                                    |
| Weight                                 | 0.161 lbs. /meter                           |
| <b>Electrical properties at +20 °C</b> |   |
| Voltage                                | ITC 150V<br>PLTC 300V<br>UL AWM 600V        |

## Technical data

|   |  |
|---|--|
| Dielectric strength                       | 2000 V RMS   |
| Mutual capacitance                        | 1kHz 5.6 nF/100m   |
| Rated voltage                             | 600 V  |
| DC resistance                             | 17.2 Ω/1000ft  |
| DC resistance imbalance                   | 5 %  |
| Coupler loss                              | IEC 61165-5 TYPE 1   |
| Transmission impedance of the surface     | IEC 61165-5 GRADE 2  |
| <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 + 6 LOG(f) dB min.  |
| Return loss 2                             | $10 \leq f < 20$ MHz 26 dB min.  |
| Return loss 3                             | $20 \leq f \leq 100$ MHz 26 - 7 LOG(f/20) dB min.  |
| Insertion loss                            | $1 \leq f \leq 100$ MHz $1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$ dB max.   |
| Close-range cross talk                    | $1 \leq f \leq 100$ MHz 35.3 - 15 LOG(f/100) dB min  |
| Ratio of loss — Long-range cross talk     | $1 \leq f \leq 100$ MHz 23.8 - 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 <20ns  |
| <b>Mechanical and chemical properties</b> |  |
| Bending radius (static)                   | $\geq 4 \times \varnothing$  |
| UL cold bend rating                       | -40 °C   |
| Ambient temperature range (static)        | -40 °C...+80 °C  |
| Ambient temperature range (dynamic)       | -40 °C...+80 °C  |
| Temperature range (installation)          | -20 °C...+80 °C  |
| <b>Approval</b>                           |  |
| UL Approvals                              | UL 2250 ITC<br>UL 13 PLTC<br>Sunlight Resistant<br>Oil Res I<br>Oil Res II<br>UL 758 AWM 2463  |
| Compliances                               | RoHS<br>CE   |
| <b>Note</b>                               |  |
|   | - 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. |

## Technical data

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

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