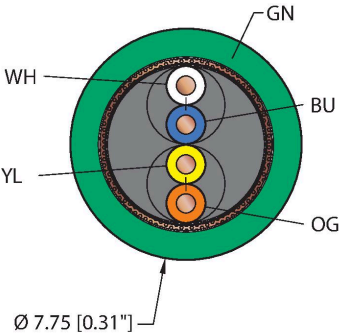


GRN,TPE,2UTPX22,S-BF,ITC,PN,CAT5E,SLD

Industrial Ethernet Cable – Reelfast™ Bulk Cable

Features

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



Technical data

Type	GRN,TPE,2UTPX22,S-BF,ITC,PN,CAT5E,SLD
ID no.	RF51604
Cable data	
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)
Braid 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 assemblies	2
Conductor diameter	0.054 "
Conductor insulation material	HDPE
Cable conductor cross-section	2x22 AWG [Similar to 0.34 mm²]
Number of strands x O.D.	1x22 AWG
Weight	0.161 lbs. /meter
Electrical properties at +20 °C	
Voltage	ITC 150V PLTC 300V UL AWM 600V

GRN,TPE,2UTPX22,S-BF,ITC,PN,CAT5E,SLD 05/20/2021 16-06 | technical changes reserved

Technical data

Dielectric withstand	2000 V RMS
Mutual capacitance	1kHz 5.6 nF/100m
Voltage rating	600 V
DC resistance	17.2 Ω /1000ft
DC resistance unbalanced	5 %
Coupling attenuation	IEC 61165-5 TYPE 1
Surface transfer impedance	IEC 61165-5 GRADE 2
Cable testing note	Starting at the reel, the following items are checked. (100-m cable)
Capactance pair to ground	MAX 1kHz 330 pF/100m
Return loss1	$1 \leq f < 10$ MHz 20 + 6 LOG(f) dB min.
Return loss2	$10 \leq f < 20$ MHz 26 dB min.
Return loss3	$20 \leq f \leq 100$ 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.
Near End Cross Talk	$1 \leq f \leq 100$ MHz 35.3 - 15 LOG(f/100) dB min
Attenuation to Crosstalk Ratio Far	$1 \leq f \leq 100$ MHz 23.8 - 20 LOG(f/100) dB min.
Propagation delay	$1 \leq f \leq 100$ MHz 534 + 36/ $\sqrt{f}$ ns max
Propagation delay skew	$1 \leq f \leq 100$ MHz <20ns
Mechanical and chemical properties	
Bending radius (static)	$\geq 4 \times \varnothing$
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
Approval	
UL Approvals	UL 2250 ITC UL 13 PLTC Sunlight Resistant Oil Res I Oil Res II UL 758 AWM 2463
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.	

Technical data

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