

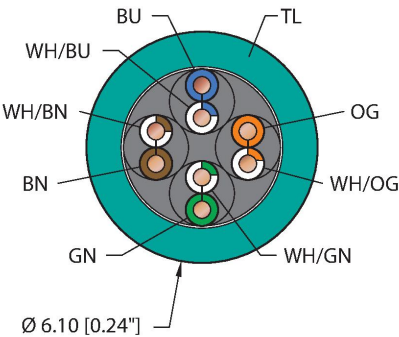
TEA,TPE,4UTPX24,CM,EN,CAT5E,SLD

Industrial Ethernet Cable – Reelfast™ Bulk Cable

Features



- Unshielded Twisted Pair
- CM 300V
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, TPE jacket, Teal, 4UTPX24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL 1685



Technical data

Type	TEA,TPE,4UTPX24,CM,EN,CAT5E,SLD
ID no.	RF51462
Cable data	
Cable Platform	Industrial Ethernet Cable
Fieldbus	Ethernet CAT5E, 842
Total number of conductors	8
Cable diameter	Ø 6.1 mm
Cable jacket	TPE, Teal
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 assemblies	4
Conductor diameter	0.039 "
Conductor insulation material	HDPE
Cable conductor cross-section	2x24 AWG [Similar to 0.25 mm²]
Number of strands x O.D.	1x24 AWG
Weight	0.086 lbs. /meter
Electrical properties at +20 °C	
Voltage	CM 300V
Dielectric withstand	1500 V RMS
Mutual capacitance	1kHz 5.6 nF/100m
Voltage rating	300 V
DC resistance	31.5 Ω/1000ft max

TEA,TPE,4UTPX24,CM,EN,CAT5E,SLD| 05/20/2021 16:06 | technical changes reserved

Technical data

DC resistance unbalanced	5 %
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	$1 \leq f < 10 \text{ MHz}$ 20 + 5 LOG(f) dB min.
Return loss2	$10 \leq f < 20 \text{ MHz}$ 25 dB min.
Return loss3	$20 \leq f \leq 100 \text{ MHz}$ 25 - 7 LOG(f/20) dB min.
Insertion loss	$1 \leq f \leq 100 \text{ MHz}$ $1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$ dB max.
Near End Cross Talk	$1 \leq f \leq 100 \text{ MHz}$ 35.3 - 15 LOG(f/100) dB min
Power Sum Near-End Crosstalk	$1 \leq f \leq 100 \text{ MHz}$ 32.3 - 15 LOG(f/100) dB min.
Attenuation to Crosstalk Ratio Far	$1 \leq f \leq 100 \text{ MHz}$ 23.8 - 20 LOG(f/100) dB min.
Power Sum Attenuation to Crosstalk Ratio, Far-End	$1 \leq f \leq 100 \text{ MHz}$ 20.8 - 20 LOG(f/100) dB min.
Propagation delay	$1 \leq f \leq 100 \text{ MHz}$ 534 + 36/ $\sqrt{f}$ ns max
Propagation delay skew	$1 \leq f \leq 100 \text{ MHz}$ <45ns
Mechanical and chemical properties	
Bending radius (static)	$\geq 4 \times \varnothing$
Cold bend rating	-40 °C
Ambient temperature range (static)	-40 °C...+75 °C
Ambient temperature range (dynamic)	-40 °C...+75 °C
Temperature range (installation)	-20 °C...+75 °C
Approval	
UL Approvals	UL 444 CM
CSA Approvals	UL 444 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.	