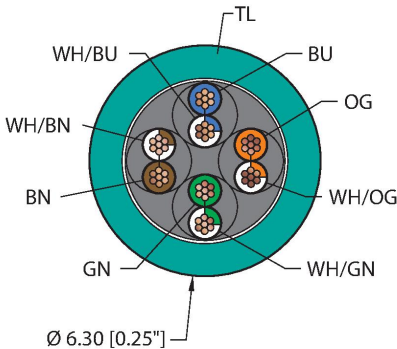


TEA,TPE,4UTPX24,CM,FL,EN,CAT5E,SND
Industrial Ethernet Cable – Reelfast™ Bulk Cable

Features



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



Technical data

Type	TEA,TPE,4UTPX24,CM,FL,EN,CAT5E,SND
Ident. no.	RF51460
Cable	
Cable platform	Industrial Ethernet cable
Cable	Ethernet CAT5E, 840
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Cable diameter	Ø 6.3 mm
Cable jacket	TPE, Teal
Conductor material	?
Core colors	BU, WH/BU, OG, WH/OG, GN, WH/GN, BN, WH/BN
Description of assembly	UTP (unshielded twisted pair)
Number of assemblies	4
Conductor diameter	0.041 "
Core insulation	HDPE
Core cross-section	2x24 AWG [Similar to 0.25 mm²]
braid arrangement	7x32 AWG
Weight	0.096 lbs. /meter
Electrical properties at +20 °C	
Voltage	UL AWM 600V UL/CSA CMX OUTDOOR 300V CM 300V
Dielectric withstand	2000
	1kHz 5.6 nF/100m
Voltage rating	600
	26.5 Ω/1000ft max
DC resistance unbalanced	5 %
Cable testing note	100

Technical data

	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.
Insurction loss	$1 \leq f \leq 100 \text{ MHz}$ $1.2[1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ 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	$1 \leq f \leq 100 \text{ MHz}$ <25ns
Mechanical and chemical properties	
Bending radius (stationary installation)	$\geq 4 \times \varnothing$
Bending radius (flexible use)	$\geq 10 \times \varnothing$
Torsion cycles	3 million
Cold flexural strength	-40 °C
Bending cycles 10 x $\varnothing$	1 million *
Bending cycles 20 x $\varnothing$	10 million *
Stationary	-40 °C...+75 °C
In motion	-40 °C...+75 °C
	-20 °C...+75 °C
Approval	
UL Approvals	UL 444 CMX OUTDOOR-CM UL 758 AWM 2463
CSA Approvals	UL 444 CMX OUTDOOR-CM
Cable compliances	RoHS CE
Note	
	- Flex values can be reduced when used in extreme temperatures, in contact with certain chemicals, above the nominal speed or below the nominal bending radius.
	- We reserve the right to make technical modifications without prior notice.