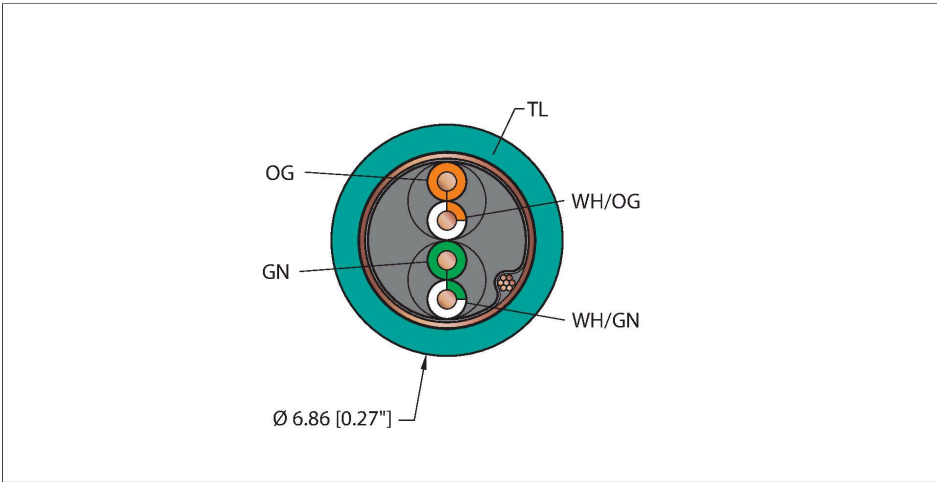


TEA,TPE,2UTPX24,S-FDB,CM,EN,CAT5E,SLD Industrial Ethernet Cable – Reelfast™ Bulk Cable



Features



- Unshielded Twisted Pair
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, Teal TPE jacket, shielded, 2UTPX24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL 1685, UL1061
- UL AWM 600V
- CM 300V

Technische Daten

Type	TEA,TPE,2UTPX24,S-FDB,CM,EN,CAT5E,SLD
ID	RF51213
Cable data	
Cable Platform	Industrial Ethernet Cable
Fieldbus	Ethernet CAT5E, 443
Total number of conductors	4
Cable diameter	Ø 6.86 mm
Cable jacket	TPE, Teal
Shielding	Aluminum/polyester (OUT), 38 AWG, TC (Tinned Copper), 80% coverage, 24 AWG, TC (Tinned Copper)
Conductor material	TC (tinned copper)
Conductor colors	OG, WH/OG, GN, WH/GN
Description of assembly	UTP (Unshielded Twisted Pair)
Number of pairs	2
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.	1x24 AWG
Weight	0.126 lbs. /meter
Electrical properties at +20 °C	
Voltage	UL AWM 600V CM 300V
Dielectric strength	2000 V RMS

Technische Daten

Mutual capacitance	1kHz 5.6 nF/100m
Rated voltage	600 V
DC resistance	26.5 Ω /1000ft
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 $1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$ 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 <25ns
Mechanical and chemical properties	
Bending radius (static)	$\geq 4 \times \varnothing$
UL cold bend rating	-40 °C
Flex rating 10 x $\varnothing$	1 million cycles
Flex rating 20 x $\varnothing$	10 million cycles
	*When properly installed @ 20°C, 50%RH, and a cycle speed of ≤ 0.5 cycles per second.
Ambient temperature range (static)	-40...+80 °C
Ambient temperature range (dynamic)	-40...+80 °C
Temperature range (installation)	-20...+80 °C
Approval	
UL Approvals	UL 444 CM UL 758 AWM 2463
CSA Approvals	CM
Compliances	RoHS CE
Note	

- Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated

Technische Daten

	cycle speed, or operating below the rated cable bend radius.
	- We reserve the right to make technical alterations without prior notice.