

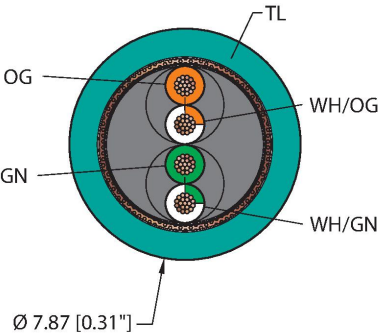
ORA,TPE,2UTPX24,CM,CAT5E

Industrial Ethernet Cable – Reelfast™ Bulk Cable

Features



- Unshielded Twisted Pair
- ITC 150V
- PLTC 300V
- UL AWM 600V
- CMX OUTDOOR 300V
- CM 300V
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, Teal TPE jacket, shielded, 2UTPX22 AWG
- Sunlight Resistant
- Oil Resistant
- Flame Ratings: UL 1685, UL1061
- Flexlife®
- Flexlife®



Technical data

Type	ORA,TPE,2UTPX24,CM,CAT5E
ID no.	RF52557
Cable data	
Cable Platform	Industrial Ethernet Cable
Fieldbus	Ethernet CAT5E, 444
Total number of conductors	4
Cable diameter	Ø 7.87 mm
Cable jacket	TPE, Teal
Shield	Aluminum/polyester (OUT)
Braid material	38 AWG, TC (Tinned Copper), 75% coverage
Conductor material	TC (tinned copper)
Conductor colors	OG, WH/OG, GN/WH, WH/GN
Description of assembly	UTP (Unshielded Twisted Pair)
Number of assemblies	2
Conductor diameter	0.058 "
Conductor insulation material	HDPE
Cable conductor cross-section	2x22 AWG [Similar to 0.34 mm²]
Number of strands x O.D.	19x0.0058 "
Weight	0.161 lbs. /meter
Electrical properties at +20 °C	
Voltage	ITC 150V PLTC 300V UL AWM 600V CMX OUTDOOR 300V

ORA,TPE,2UTPX24,CM,CAT5E| 05/20/2021 16-07 | technical changes reserved

Technical data

	CM 300V
Dielectric withstand	2000 V RMS
Mutual capacitance	1kHz 5.6 nF/100m
Voltage rating	600 V
DC resistance	17.5 Ω /1000ft
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	$1 \leq f < 10$ 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)	$\geq 4 \times \varnothing$
Bending radius (dynamic)	$\geq 10 \times \varnothing$
Flex rating 10 x $\varnothing$	3 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 °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 UL 444 CMX OUTDOOR-CM Sunlight Resistant Oil Res I Oil Res II UL 758 AWM 2463
CSA Approvals	UL 444 CMX OUTDOOR-CM
Compliances	RoHS CE

Technical data

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.