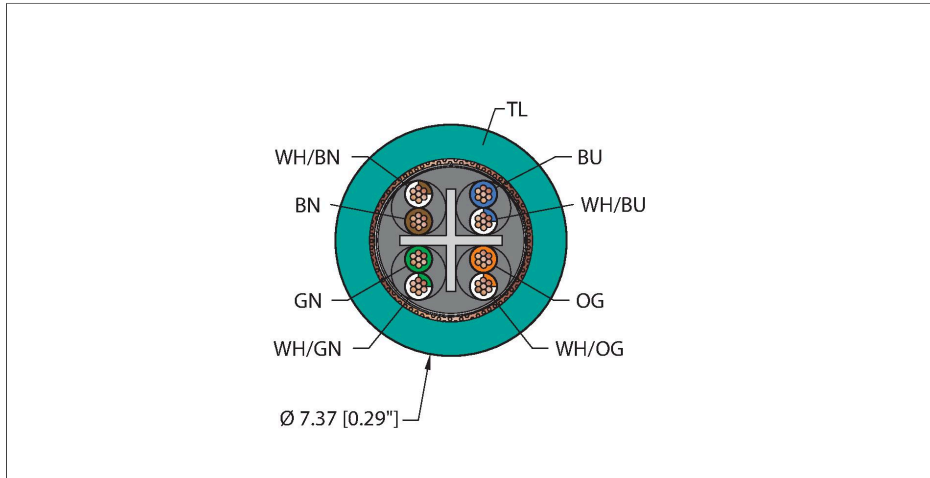


# RF52026-150M - TEA,TPE,4UTPX26,CAT6A Industrial Ethernet Cable – Reelfast™ Bulk Cable



## Features



- Unshielded Twisted Pair
- Industrial Ethernet Cable
- Fieldbus type: Ethernet CAT6A, Teal TPE jacket, shielded, 4UTPX26 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL 1666, UL1061
- Flexlife® and C-Track Approved
- UL AWM 600V
- UL/CSA CMX OUTDOOR 300V
- CM 300V

## Technical data

Type	RF52026-150M - TEA,TPE,4UTPX26,CAT6A
ID	200012929
<b>Cable data</b>	
Cable Platform	Industrial Ethernet Cable
Fieldbus	Ethernet, 860
Total number of conductors	8
Cable diameter	Ø 7.37 mm
Length (L)	150 m
Cable jacket	TPE, Teal
Shielding	Aluminum/polyester (OUT), 38 AWG, TC (Tinned Copper), 75% coverage
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 pairs	4
Conductor diameter	0.034 "
Conductor insulation material	HDPE
Cable conductor cross-section	2x26 AWG [Similar to 0.14 mm <sup>2</sup> ]
Number of strands x O.D.	7x34 AWG
Weight	0.133 lbs. /meter
<b>Electrical properties at +20 °C</b>	
Voltage	UL AWM 600V UL/CSA CMX OUTDOOR 300V CM 300V

## Technical data

Mutual capacitance	1kHz 5.6 nF/100m
Rated voltage	300 V
DC resistance	44.4 $\Omega$ /1000ft
DC resistance imbalance	4 %
Coupler loss	$30 \leq f \leq 100$ MHz 85-20 LOG ( f/100) dB min., 85 dB min.
Transmission impedance of the surface	$1 \leq f \leq 100$ MHz 1000 m $\Omega$ /m
<b>Cable test information</b>	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	$1 \leq f \leq 500$ MHz $1.5[1.82 \sqrt{f} + 0.0091(f) + 0.25/\sqrt{f}]$ dB MAX
Close-range cross talk	$1 \leq f \leq 500$ MHz 44.3 - 15 LOG(f/100) dB MIN
Total power of close-range cross talk	$1 \leq f \leq 500$ MHz 42.3 - 15 LOG(f/100) dB min.
Ratio of loss — Long-range cross talk	$1 \leq f \leq 500$ MHz 27.8 - 20 LOG(f/100) dB min.
Total power of ratio of loss — Long-range cross talk	$1 \leq f \leq 500$ MHz 24.8 - 20 LOG(f/100) dB min.
Runtime delay	$1 \leq f \leq 100$ MHz 534 + 36/ $\sqrt{f}$ ns max
Runtime delay offset	$1 \leq f \leq 500$ MHz <45ns
<b>Mechanical and chemical properties</b>	
Bending radius (static)	$\geq 4 \times \varnothing$
Bending radius (dynamic)	$\geq 10 \times \varnothing$
Bending radius (C-track)	$\geq 4$ In.
Bending cycles (C-track)	35 Million *
Admissible acceleration	Max. 16.7 m/s <sup>2</sup>
Admissible travel path, horizontal	0.6 m (at 16.7 m/s <sup>2</sup> )
Admissible traversing speed	1.2 m/s
Torsional stress	$\pm 270$ °/m
Torsion rating	Max. 3 million
Torsional stress	52 Cycles/min
UL cold bend rating	-40 °C
	*When properly installed @ 20°C, 50%RH, and a cycle speed of $\leq 0.5$ cycles per second.
C-Track	Yes

## Technical data

Ambient temperature range (static)	-40...+80 °C
Ambient temperature range (dynamic)	5...+80 °C
Temperature range (installation)	-10...+80 °C
<b>Approval</b>	
UL Approvals	UL 444 CMX OUTDOOR-CM
CSA Approvals	CMX OUTDOOR-CM
Compliances	RoHS CE
<b>Note</b>	
	- 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.