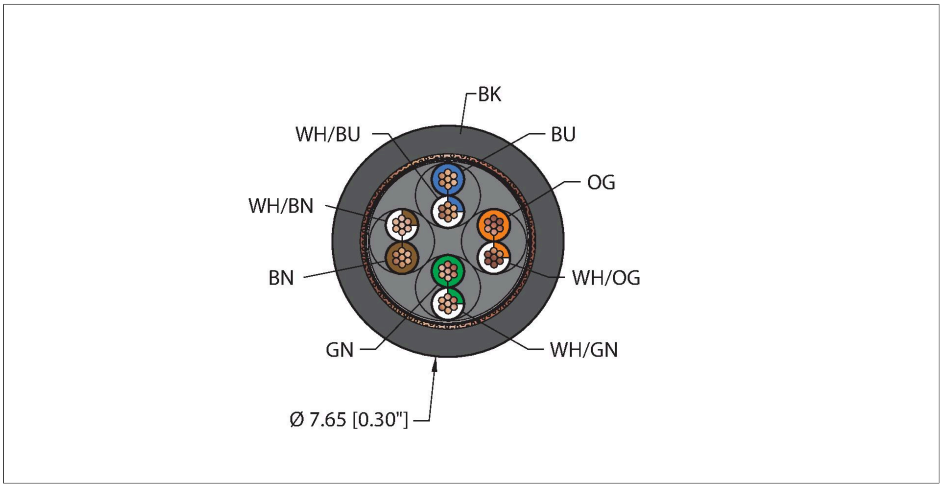
BLK,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND
Industrial Ethernet Cable – Reelfast™ Bulk Cable



Features

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

Technical data

Type	BLK,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND
ID no.	RF51624
Cable data	
Cable Platform	Industrial Ethernet Cable
Fieldbus	Ethernet CAT5E, 841BK
Total number of conductors	8
Cable diameter	Ø 7.65 mm
Cable jacket	TPE, Black
Shield	Aluminum/polyester (OUT)
Braid material	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 assemblies	4
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.	7x32 AWG
Weight	0.141 lbs. /meter
Electrical properties at +20 °C	
Voltage	UL AWM 600V UL/CSA CMX OUTDOOR 300V

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Technical data

	CM 300V
Mutual capacitance	1kHz 5.6 nF/100m
Voltage rating	600 V
DC resistance	26.5 Ω/1000ft
DC resistance unbalanced	5 %
Coupling attenuation	30 ≤ f ≤ 100 MHz 55-20 LOG (f/100) dB MIN, 55 dB min
Surface transfer impedance	1 ≤ f ≤ 100 MHz 10 f mΩ/m
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 ≤ f < 10 MHz 20 + 5 LOG(f) dB min.
Return loss2	10 ≤ f < 20 MHz 25 dB min.
Return loss3	20 ≤ f ≤ 100 MHz 25 - 7 LOG(f/20) dB min.
Insertion loss	1 ≤ f ≤ 100 MHz 1.2[1.967 √f +0.023(f) +0.050/√f] dB max.
Near End Cross Talk	1 ≤ f ≤ 100 MHz 35.3 - 15 LOG(f/100) dB min
Power Sum Near-End Crosstalk	1 ≤ f ≤ 100 MHz 32.3 - 15 LOG(f/100) dB min.
Attenuation to Crosstalk Ratio Far	1 ≤ f ≤ 100 MHz 23.8 - 20 LOG(f/100) dB min.
Power Sum Attenuation to Crosstalk Ratio, Far-End	1 ≤ f ≤ 100 MHz 20.8 - 20 LOG(f/100) dB min.
Propagation delay	1 ≤ f ≤ 100 MHz 534 + 36/√f ns max
Propagation delay skew	1 ≤ f ≤ 100 MHz <45ns
Mechanical and chemical properties	
Bending radius (static)	≥ 4 x Ø
Bending radius (dynamic)	≥ 10 x Ø
Torsion rating	3 million
Cold bend rating	-40 °C
Flex rating 10 x Ø	1 million cycles *
Flex rating 20 x Ø	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 444 CMX OUTDOOR-CM

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Technical data

	UL 758 AWM 2463
CSA Approvals	UL 444 CMX OUTDOOR-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.

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