

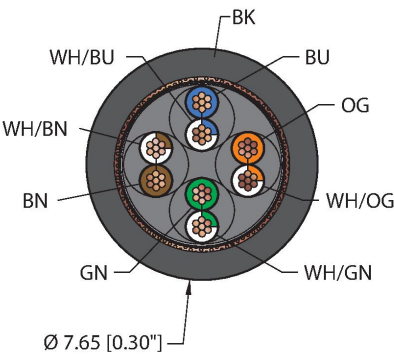
BLK,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND

Industrial Ethernet Cable – Reelfast™ Bulk Cable

Features



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



Technische Daten

Type	BLK,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND
ID	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
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	0.046 "
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 CM 300V

BLK,TPE,4UTPX24,S-BF,CM,FL,EN,CAT5E,SND 22-02-2025 02-06 | Technische Änderungen vorbehalten

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 $1.2[1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ dB max.
Close-range cross talk	$1 \leq f \leq 100$ MHz 35.3 - 15 LOG(f/100) dB min
Total power of close-range cross talk	$1 \leq f \leq 100$ MHz 32.3 - 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.
Total power of ratio of loss — Long-range cross talk	$1 \leq f \leq 100$ MHz 20.8 - 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 <45ns
Mechanical and chemical properties	
Bending radius (static)	$\geq 4 \times \varnothing$
Bending radius (dynamic)	$\geq 10 \times \varnothing$
Bending radius (C-track)	≥ 4 In.
Bending cycles (C-track)	35 Million *
Admissible acceleration	Max. 16.7 m/s ²
Admissible travel path, horizontal	0.6 m (at 16.7 m/s ²)
Admissible traversing speed	1.2 m/s
Torsional stress	± 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 ≤ 0.5 cycles per second.
C-Track	Yes

Technische Daten

Ambient temperature range (static)	-40...+80 °C
Ambient temperature range (dynamic)	5...+80 °C
Temperature range (installation)	-10...+80 °C
Approval	
UL Approvals	UL 444 CMX OUTDOOR-CM UL 758 AWM 2463
CSA Approvals	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.	