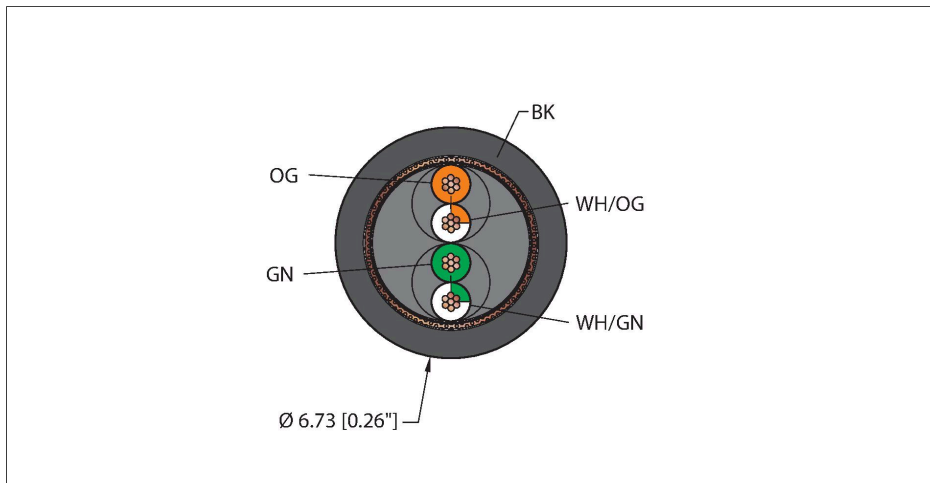


# BLK,TPE,2UTPX24,S-BF,FL,CM,EN,CAT5E,SND Industrial Ethernet Cable – Reelfast™ Bulk Cable



## Features



- Unshielded Twisted Pair
- UL AWM 600V
- CMX OUTDOOR 300V
- CM 300V
- Industrial Ethernet Cable
- fieldbus type: Ethernet CAT5E, Black TPE jacket, shielded, 2UTPX24 AWG
- Flame Ratings: UL 1685, UL1061
- Flexlife®
- Flexlife®

## Technical data

<b>Type</b>	BLK,TPE,2UTPX24,S-BF,FL,CM,EN,CAT5E,SND
<b>Ident. no.</b>	RF52507
<b>Cable</b>	
<b>Cable platform</b>	Industrial Ethernet cable
<b>Cable</b>	Ethernet CAT5E, 841BK
	4
<b>Cable diameter</b>	Ø 6.73 mm
<b>Cable jacket</b>	TPE, Black
<b>Shielding</b>	Aluminum/polyester (OUT)
<b>Braid material</b>	38 AWG, TC (tinned copper), 75% covered
<b>Conductor material</b>	?
<b>Core colors</b>	OG, WH/OG, GN, WH/GN
<b>Description of assembly</b>	UTP (unshielded twisted pair)
<b>Number of assemblies</b>	2
<b>Conductor diameter</b>	0.048 "
<b>Core insulation</b>	HDPE
<b>Core cross-section</b>	2x24 AWG [Similar to 0.25 mm <sup>2</sup> ]
<b>braid arrangement</b>	7x32 AWG
<b>Weight</b>	0.093 lbs./meter
<b>Electrical properties at +20 °C</b>	
<b>Voltage</b>	UL AWM 600V CMX OUTDOOR 300V CM 300V
<b>Dielectric withstand</b>	200
	1kHz 5.6 nF/100m
<b>Voltage rating</b>	600
	26.5 Ω/1000ft
<b>DC resistance unbalanced</b>	5 %

## Technical data

Coupling attenuation	$30 \leq f \leq 100$ MHz 55-20 LOG (f/100) dB MIN, 55 dB min
Surface transfer impedance	$1 \leq f \leq 100$ MHz 10 f mΩ/m
Cable testing note	100
	1kHz 330 pF/100m
Return loss1	$1 \leq f < 10$ MHz 20 + 5 LOG(f) dB min.
Return loss2	$10 \leq f < 20$ MHz 25 dB min.
Return loss3	$20 \leq f \leq 100$ MHz 25 - 7 LOG(f/20) dB min.
Insurrtion loss	$1 \leq f \leq 100$ MHz 1.2[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 <25ns
<b>Mechanical and chemical properties</b>	
Bending radius (stationary installation)	$\geq 4 \times \emptyset$
Bending radius (flexible use)	$\geq 10 \times \emptyset$
Torsion cycles	3 million
Bending cycles 10 x $\emptyset$	1 million *
Bending cycles 20 x $\emptyset$	10 million *
Stationary	-40 °C...+75 °C
In motion	-40 °C...+75 °C
	-20 °C...+75 °C
<b>Approval</b>	
UL Approvals	UL 444 CMX OUTDOOR-CM UL 758 AWM 2463
CSA Approvals	UL 444 CMX OUTDOOR-CM
Cable compliances	RoHS CE
<b>Note</b>	
	- Flex values can be reduced when used in extreme temperatures, in contact with certain chemicals, above the nominal speed or below the nominal bending radius.
	- We reserve the right to make technical modifications without prior notice.