

LUTZE MOTIONFLEX™ ETHERNET TPE, Shielded

Flexible ETHERNET Cable for flexing and twisting applications



Application

- For the cabling of industrial Ethernet systems
- Cable design for harsh industrial environments and operating conditions with high noise levels.
- Automation technology, material handling, conveyor technology, and industrial machinery
- Suitable for motion applications with repetitive movement, flexing, and torsional stress

Characteristics

- High protection against electromagnetic interference (EMI)
- Oil, abrasion, and sunlight resistant
- Design and approvals for machine and field level
- Talc and Silicone free

Technical data

Impedance	100Ω ± 10Ω	
DC resistance	Max 14Ω/100m	
Operating capacitance	< 56pF/m	
Rated voltage	cULus 300V AWM 2463 600V	
Test voltage	2000V	
Temperature range	Moving	-25°C to +70°C
	Fixed	-40°C to +80°C
Minimum bending radius	Moving min.	10 x cable OD
	Moving optimal	20 x cable OD
	Fixed min.	7.5 x cable OD
Max. Torsion	+/- 270° / 1m cable length	
Cold bend	UL444 -40°C	
Oil resistance	Oil Res I & II per UL 1277	
Burning behavior	Flame retardant per UL 1666 (CMR types) UL 1685 (CM types)	
Approvals	cULus CMX Outdoor cURus AWM 2463 600V SUN RES RoHS, REACH	
Item specific approvals	PLTC CMR CM	

Construction

- AWG conductor
- Bare copper wire
- Conductor insulation HDPE
- SF/UTP, foil shield 100 %, tinned copper braid shield 75% optical coverage
- Jacket TPE, matte, low adhesion surface
- Teal jacket, similar to RAL 5021

For further information, see ETHERNET pages in the Technical Overview

Specifications are subject to change without prior notice

Part No.	Description No. of conductors	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
Industrial Ethernet/Ethernet IP					
A1040017	(2x2xAWG22/19) PLTC, ITC, CMX Outdoor, CM, AWM2463 600V CAT5e, SF/UTP WHOG/OG, WHGN/GN	7.9	0.310	46	22
A1040019	(2x2xAWG24/7) CMX Outdoor, CM, AWM2463 600V CAT5e, SF/UTP WHOG/OG, WHGN/GN	6.6	0.260	34	18
A1040020	(4x2xAWG24/7) CMX Outdoor, CMR, AWM 2463 600V Cat5e, SF/UTP WHBU/BU, WHOG/OG, WH GN/GN, WHBN/BN	7.6	0.299	46	27
A1040030	(4x2xAWG24/7) CMX Outdoor, CMR, AWM 2463 600V Cat6A, SF/UTP WHBU/BU, WHOG/OG, WH GN/GN, WHBN/BN	8.2	0.322	48	29