

LUTZE MOTIONFLEX® ETHERNET (C) TPE, Shielded

Flexing Ethernet Cable for Linear and Twisting Motion 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
- Compliant with NFPA 79 requirements

Characteristics

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

Technical data

Voltage	300V 600V AWM
Test voltage	2000V
Impedance	100Ω ± 10Ω
DC resistance	Max 14Ω/100m
Operating capacitance	< 56pF/m
Temperature range	Moving -25°C to +70°C Fixed -40°C to +80°C
Bending radius min	Moving min. 10 x cable OD Moving optimal 20 x cable OD Fixed min. 7.5 x cable OD
Torsion angle max	+/- 270° / 1m cable length
Oil resistance	Oil Res II
Burning behavior	Flame retardant per UL 1666 (CMR types) UL 1685 (CM types)
Approvals	CMX Outdoor 75C AWM 2463 80C 600V UL 444 -40°C Cold Bend Sun Res RoHS, REACH
Item specific approvals	PLTC CMR 75C CM 75C

Part No.	Description No. of conductors	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
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Industrial Ethernet/Ethernet IP

A1040017	(2x2xAWG22/19) PLTC, ITC, CMX Outdoor, CM, AWM 2463 600V CAT5e, SF/UTP WHOG/OG, WHGN/GN	7.9	0.310	46	22
A1040019	(2x2xAWG24/7) CMX Outdoor, CM, AWM 2463 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

Construction

- AWG conductor
- Tinned copper wire
- Conductor insulation HDPE
- SF/UTP, foil shield 100%, tinned copper braid shield 75% optical coverage
- Extremely oil resistant TPE Jacket
- Teal jacket similar to RAL 5021

For further information, see Ethernet pages in the Technical Overview

Specifications are subject to change without prior notice