

Technical data sheet

TPE Network cables · ETHERNET · C-track compatible · shielded

LUTZE MOTIONFLEX® ETHERNET (C) TPE

Flexing Ethernet Cable for Linear and Twisting Motion Applications



Identification

Type MO ET TPE CAT 5e SF/UTP (2×2×AWG24)
Part No. [A1040019](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For the cabling of industrial Ethernet systems• Cable design for harsh industrial environments and operating conditions with high noise levels• Application in the automation technology, in tool and machine construction, plants and device construction, transport and conveyor technology• Suitable for motion application with repetitive movement, flexing and torsional stress• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Oil resistance• Sunlight resistant• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures• Design and approvals for machine and field level• Flexible for easy installation• Talc free and silicone free |

Construction

Ethernet Key	SF/UTP
Description	LUTZE MOTIONFLEX™ ETHERNET TPE
Number of conductors/cross-section	(2×2×AWG24/7)
Number of conductors	4
Cross-section AWG	AWG 24
Jacket material	TPE

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Jacket color	teal similar to RAL 5018
Outer Ø	6.6 mm
Outer Ø	0.26 inch
Surface	matte, adhesion-free
Weight	5.05 kg/100 m
Weight	34 Lbs/Mft
Cu-Index	2.67 kg/100 m
Cu-Index	18 Lbs/Mft

Construction Element 1

Element construction	(2×2×AWG24/7)
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	white/orange · orange · white/green · green
Conductor insulation	HDPE
Stranding	conductors stranded in pairs

Overall construction

Overall shield	aluminium-laminated film shield Braid shield tinned copper wires optical cover approx. 75 %
Jacket characteristics	Flame-retardant Oil resistant UV resistant (normal lighting conditions) abrasion resistant Silicone-free

Technical data

Rated voltage U_N	cULus 300 V cURus 600 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	7.5×D
Recommended bending radius moving	20×D
Torsion	± 270°/m

Technical Data Element 1

Element construction	(2×2×AWG24/7)
Insulation resistance at 20 °C	≥14 MΩ×km
Operating capacitance wire-wire	approx.56 pF/m
Impedance	nom.100 Ω

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Certifications/Standards

Certifications	cULus CMX Outdoor CM cURus CMG 75 °C acc. UL 444 -40°C cold bend, cold impact
UL style	AWM 2463
Conformity	CE RoHS REACH TSCA
Burning behavior according to	UL 1685
Oil resistant according to	Oil Res I Oil Res II UL 1277 12.2
UV-resistant according to	UL Sun Res

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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