

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e



Identification

Type SU ET (C) PUR (4×2×AWG26/19)StC Cat5e

Part No. [104396](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free • Flame retardant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Industrial and salt water resistant • Weathering, ozone and UV resistant (normal lighting conditions) • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Low adhesion, abrasion-resistant, nick-resistant, tear-resistant • Very good alternating bending strength

Construction

Ethernet Key	SF/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG26/19)StC
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PUR

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Jacket color	green similar to RAL 6018
Outer Ø	6.7 mm
Outer Ø	0.264 inch
Surface	adhesion-free
Weight	5.1 kg/100 m
Weight	36 Lbs/Mft
Cu-Index	2.8 kg/100 m
Cu-Index	19 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG26/19)
Conductor construction	AWG 26/19
Conductor	AWG conductor CU-wire bare
Conductor marking standard	ISO IEC 11801
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Stranded pairs
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Bending cycles	≥5 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical Data Element 1

Element construction	(4×2×AWG26/19)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤280 mΩ/m
Impedance	nom.100 Ω

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Certifications/Standards

Certifications	cURus
UL style	AWM 21198
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part VW-1 Flame Test UL FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

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