

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×AWG24/19)C Cat5e

Part No. [104337](#)

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	S/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG24/19)C
Number of conductors	8
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24

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Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	7.8 mm
Outer Ø	0.307 inch
Surface	adhesion-free
Weight	8.5 kg/100 m
Weight	46 Lbs/Mft
Cu-Index	4.4 kg/100 m
Cu-Index	37 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG24/19)
Conductor construction	AWG 24/19
Conductor	AWG conductor CU-wire bare
Conductor marking standard	ISO IEC 11801
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Stranded pairs
Overall shield	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	≥2 Mio
Travel distance	≤4.5 m
Speed	≤3 m/s
Acceleration	≤3 m/s ²

Technical Data Element 1

Element construction	(4×2×AWG24/19)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤155 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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