

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR
For highest requirements, torsion-resistant
Cat. 6A, Profinet Type C



Identification

Type	SU ET (C) PUR (4×2×AWG24/7)StC Cat6A
Part No.	104401
Profinet Type	Type C

Product version

Datasheet version	02
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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

Construction

Ethernet Key	SF/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG24/7)StC
Number of conductors	8
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	8.9 mm
Surface	adhesion-free
Weight	8.8 kg/100 m
Weight	59 Lbs/Mft

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Part No. [104401](#) • Datasheet version: 02

page 1 of 3

Technical data sheet

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Cu-Index	4.4 kg/100 m
Cu-Index	29.5 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG24/7)
Conductor construction	AWG 24/7
Conductor	AWG conductor CU-wire bare
Conductor marking standard	ISO IEC 11801
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Twisted pairs with cross element
Overall wrapping	Non-woven material
Inner jacket	FRNC
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 90 %
Jacket characteristics	Flame-retardant Oil resistant Abrasion resistant Grease-resistant Alkali-resistant Lubricant-resistant Silicone free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	4×D
Category	Cat.6 _A
Bending cycles	≥1 Mio
Travel distance	≤10 m
Speed	≤5 m/s
Acceleration	≤10 m/s ²
Torsion	± 180°/m

Technical Data Element 1

Element construction	(4×2×AWG24/7)
Insulation resistance at 20 °C	≥500 MΩ×km
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 60332-1-2 Horizontal Flame Test UL FT2
Oil resistant according to	DIN EN 60811-404 DIN EN 50363-10-2
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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