

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR
For highest requirements, torsion-resistant
Cat. 7, Profinet Type C



Identification

Type	SU ET (C) PUR (4×(2×AWG24/7)St)C Cat7
Part No.	104404
Profinet Type	Type C

Product version

Datasheet version	01
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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	S/FTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×(2×AWG24/7)St)C
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	9.4 mm
Surface	adhesion-free
Weight	9.6 kg/100 m
Weight	65 Lbs/Mft

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Cu-Index	4.4 kg/100 m
Cu-Index	30 Lbs/Mft

Construction Element 1

Element construction	(4×(2×AWG24/7)St)C
Conductor construction	AWG 24/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking standard	ISO IEC 11801
Conductor insulation	Special Polyolefin
Element shielding	Foil shield in pairs

Overall construction

Overall stranding	Twisted pairs with cross element Metallized fleece
Overall wrapping	Non-woven material
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
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 3000 V
Temperature according to UL	75 °C
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	8×D
Category	Cat.7
Bending cycles	≥1 Mio
Travel distance	≤4.5 m
Speed	≤3 m/s
Acceleration	≤3 m/s ²
Torsion	± 180°/m

Technical Data Element 1

Element construction	(4×(2×AWG24/7)St)C
Insulation resistance at 20 °C	≥500 MΩ×km
Loop resistance	≤175.2 mΩ/m

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Impedance	nom.100 Ω
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Certifications/Standards

Certifications	CMX
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1-2 UL 1581 part 1080 VW-1
Oil resistant according to	DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	VDE 0472-815 IEC 60754-1

General

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