

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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	Stranding 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

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