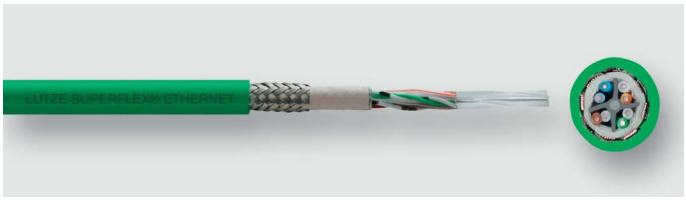
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR
For highest requirements
Cat. 6



Identification

Type	SU ET (C) PUR (4×2×AWG26/19)StC Cat6
Part No.	104347

Product version

Datasheet version	01

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
Number of conductors	8
Cross-section, metric	0.19 mm²
Cross-section AWG	AWG 26

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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	7.4 kg/100 m
Weight	42 Lbs/Mft
Cu-Index	3.4 kg/100 m
Cu-Index	28 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG26/19)
Conductor construction	AWG 26/19
Conductor	AWG conductor CU-wire tin-plated
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 2000 V
Operating voltage	125 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	4×D
Category	Cat.6
Bending cycles	≥3 Mio
Travel distance	≤4.5 m
Speed	3 m/s
Acceleration	3 m/s²
Tensile strength moving	40 N
Tensile strength fixed	145 N

Technical Data Element 1

Element construction	(4×2×AWG26/19)

Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤280 mΩ/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	CMX
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 UL 2556 sec. 9.4 UL Vertical Flame Test UL 1581 part 1080 VW-1
Oil resistant according to	IEC 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN 0472 Part 815

General

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