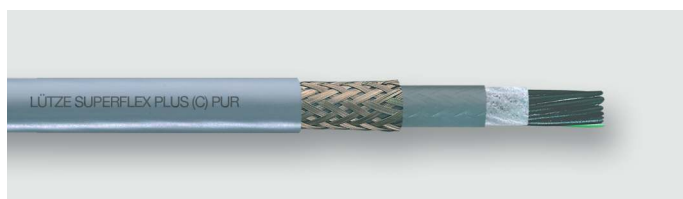


Technical data sheet

PUR control cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS N (C) PUR 600 V

For highest requirements



Identification

Type SU+N(C)PUR(18G1,5) 600V
Part No. [113322](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- Machine and device construction, transport and conveyor technology, heating and climate technology
 - In areas with high concentrations of people or material assets
 - As a monitoring, measurement and control cable for industrial applications
 - Especially for harsh environments
 - For installation in energy chains with constant linear movement
 - Anywhere where electrical interference fields can influence the signal transmission
- Properties
- Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads
 - High active and passive interference resistance (EMC)
 - Braided shield optimised for continuous flexing use
 - Low capacitance, very good electrical properties
 - Flame-retardant, self-extinguishing
 - Halogen-free, no corrosive gases
 - Very good alternating bending strength
 - Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
 - Hydrolysis-resistant, microbe-resistant, and rot-resistant
 - Weathering, ozone and UV resistant (normal lighting conditions)
 - Industrial and salt water resistant
 - Excellent coolant and lubricant resistance
 - Largely resistant to oils, greases, alcohol-free benzines and kerosene
 - Silicone free
 - RoHS compliant

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington · GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 · Fax +44 (0)1827 31333-2
www.lutze.com · sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) · Bruckwiesenstraße 17-19 · D-71384 Weinstadt
Tel. +49 (0)7151 6053-0 · Fax +49 (0)7151 6053-277(-288)
www.luetze.de · info@luetze.de

22.07.2022 · Subject to technical modification

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SYSTEMATIC TECHNOLOGY

Technical data sheet

PUR control cables · C-track compatible · shielded

Construction

Description	SUPERFLEX® PLUS N (C) PUR 600V
Number of conductors/cross-section	(18G1.5)
Number of conductors	18
Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	17.2 mm
Outer Ø	0.677 inch
Weight	48.7 kg/100 m
Weight	308 Lbs/Mft
Cu-Index	32.4 kg/100 m
Cu-Index	217 Lbs/Mft

Construction Element 1

Element construction	(18G1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · green/yellow
Conductor marking standard	DIN EN 50334
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	300/500 V
Rated voltage UL	600 V
Test voltage type	AC 6000 V

Technical data sheet

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Temperature according to UL	80 °C
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Travel distance	≤20 m
Speed	≤5 m/s
Acceleration	≤10 m/s ²
Torsion cycles	≥ 1 Mio
Torsion	± 30°/m
Speed of torsion	60 °/s
Acceleration of torsion	30 °/s ²

Technical Data Element 1

Element construction	(18G1.5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.75 pF/m
Operating capacitance wire-shield	approx.108 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20234
Conformity	CE RoHS REACH
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
UV-resistant according to	DIN EN ISO 4892-2-A

General

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