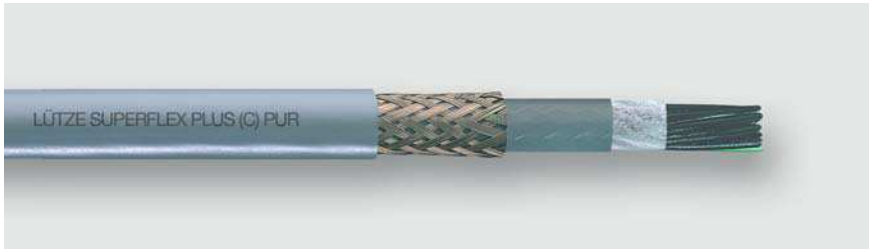
Technical data sheet · LÜTZE SUPERFLEX® PLUS N (C) PUR 300 V
For highest requirements



PUR control cables · C-track compatible · shielded

Identification	Type	SU+N(C)PUR(18G1,0)UL 300V
	Part-No.	113316

Use/Application/Characteristics

Application

- Machine and device construction, transport and conveyor technology, HVAC technology
- In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
- As a monitoring, measurement and control cable for industrial applications
- Especially for rough environments
- For installation in energy chains with constant linear movement
- Anywhere where electrical interference fields can influence the signal transmission

USA: LUTZE INC.
13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

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

SYSTEMATIC TECHNOLOGY

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Characteristics	• Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads • High active and passive interference resistance (EMC) • Braided shield optimized for continuous flexing applications • Low capacitance, very good electrical properties • Flame-retardant, self-extinguishing • Halogen-free, no corrosive gases • Very good flexing strength • Low adhesion, Abrasion-resistant, Tear resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weathering, ozone and UV resistant (normal lighting conditions) • Good resistance to wear and salt water • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS-compliant

Construction	
Description	SUPERFLEX PLUS N (C) PUR 300 V
Number of conductors/cross-section	(18G1.0)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer ∅	14 mm
Outer ∅	0.551 inches
Weight	30.6 kg/100 m
Weight	217.7 Lbs/Mft
Cu-Index	22 kg/100 m
Cu-Index	147 Lbs/Mft

Element 1

Element construction	(18G1.0)
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 insulation	Special TPE

overall construction

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Overall stranding	Conductors stranded layers 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	300 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C … +80 °C
Temperature range fixed	-40 °C … +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	6×D

Element 1

Element construction	(18G1.0)
Insulation resistance at 20°C	1000 MΩ×km
Operating capacitance Ader-Ader	81 pF/m
Operating capacitance wire-shield	117 pF/m

Approvals/Standards	
Approvals	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part VW-1 Flame Test UL FT1

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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

Symbols

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