

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(12G1,0)UL 300V
	Part-No.	113315

Use/Application/Characteristics

Application	<ul style="list-style-type: none">• 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
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28.04.2017 – Subject to technical modification

Part-No. 113315

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SYSTEMATIC TECHNOLOGY

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

Description	SUPERFLEX PLUS N (C) PUR 300 V
Number of conductors/cross-section	(12G1.0)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	12.1 mm
Outer Ø	0.476 inches
Weight	22.5 kg/100 m
Weight	161.3 Lbs/Mft
Cu-Index	15.4 kg/100 m
Cu-Index	103 Lbs/Mft

Element 1

Element construction	(12G1.0)
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	(12G1.0)
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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