

Technical data sheet

PUR control cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS 4100 (C) PUR

For highest requirements



Identification

Type SU+ 4100 (C) PUR 18G1,5
Part No. [113225](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Machine and device construction, transport and conveyor technology, heating and climate 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 harsh environments• For installation in energy chains with constant linear movement• Anywhere where electrical interference fields can influence the signal transmission |
| Properties | <ul style="list-style-type: none">• Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads• High protection against electromagnetic interferences (EMI)• 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 |

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Construction

Description	SUPERFLEX® PLUS 4100 (C) PUR
Number of conductors/cross-section	(18G1,5)
Number of conductors	18
Cross-section, metric	1.5 mm ²
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	17.3 mm
Weight	51 kg/100 m
Weight	342.7 Lbs/Mft
Cu-Index	33.8 kg/100 m

Construction Element 1

Element construction	18G1,5
Conductor	CU-wire bare
Conductor category	DIN EN 60228, Class 6 IEC 60228, Class 6 DIN EN 13602
Conductor marking standard	DIN VDE 0293
Conductor insulation	TPE
Wrapping	Non-woven material

Overall construction

Overall stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised
Inner jacket	TPE
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %

Technical data

Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
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

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Technical Data Element 1

Element construction	18G1,5
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	13.3 Ω/km
Operating capacitance wire-wire	68 pF/m
Operating capacitance wire-shield	102 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part VW-1 Flame Test CSA FT 1
Oil resistant according to	Oil Res II
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

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