

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×70 1kV SW
Part No. [111131](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• 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 |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×70
Number of conductors	1
Cross-section, metric	70 mm ²
Cross-section AWG	2/0
Jacket material	PUR

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Jacket color	black similar to RAL 9005
Outer Ø	16.6 mm
Outer Ø	0.654 inch
Surface	adhesion-free
Weight	78.3 kg/100 m
Weight	526 Lbs/Mft
Cu-Index	64.5 kg/100 m
Cu-Index	433 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×70
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking standard	DIN VDE 0293
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant Grease-resistant Petrol-resistant (alcohol-free) Kerosene-resistant Silicone free Halogen free
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Technical data

Rated voltage U_0/U	600/1000 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	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×70
Operating capacitance wire-wire	approx.485 pF/m

Certifications/Standards

Certifications	cURus
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UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
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
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