

Technical data sheet · LÜTZE SUPERFLEX® PLUS M PUR 0.6/1 kV
Motor/energy supply cable
For highest requirements



PUR motor cables · C-track compatible · unshielded

Identification	Type	SU+ M PUR 5G6 UL 1kV SW
	Part-No.	111430

Use/Application/Characteristics

Application	<ul style="list-style-type: none"> • Motor connection cable, specifically for machine and device construction, transport and conveyor technology • Due to full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants • Especially for industrial environments, machines and plants
Characteristics	<ul style="list-style-type: none"> • Very good alternating bending strength • Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weatherproof, ozone and UV resistant (normal lighting conditions) • Good ruggedness and salt water resistance • Excellent coolant and lubricant resistance • Resistant to most oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS compliant

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	5G6
Cross-section AWG	AWG 10

15.02.2020 – Subject to technical modification

Part-No. 111430

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SYSTEMATIC TECHNOLOGY

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Cross-section, metric	6 mm ²
Jacket material	PUR
Jacket color	black RAL 9005
Outer Ø	14.4 mm
Outer Ø	0.567 inch
Surface	adhesion-free matt
Weight	37.8 kg/100 m
Weight	269 Lbs/Mft
Cu-Index	29.2 kg/100 m
Cu-Index	194 Lbs/Mft

Element 1

Element construction	5G6
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
Stranding	conductors layered construction conductors twisted without mechanical stress

overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Fleece taping
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V

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Test voltage type	AC 4000 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	≥5 Mio
Travel distance	≤40 m
Speed	2 m/s
Acceleration	5 m/s ²

Element 1

Element construction	5G6
Insulation resistance at 20 °C	500 MΩ×km
Operating capacitance wire-wire	74 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1 UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-2-1
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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Symbols



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