

**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**

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

**Use/Application/Characteristics**

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

**Construction**

Description	SUPERFLEX+ M PUR 0.6/1kV
Number of conductors/cross-section	5G6
Jacket material	PUR

16.02.2017 – Subject to technical modification

Part-No. 111430

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SYSTEMATIC TECHNOLOGY

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## Motor/energy supply cable

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Jacket color	black RAL 9005
Outer Ø	14.4 mm
Outer Ø	0.567 inches
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 Klasse 6
Conductor marking	black with white number print green/yellow
Conductor marking standard	DIN EN 50334
Conductor insulation	Special TPE
Stranding	Conductors stranded layers Conductors twisted without mechanical stress

#### overall construction

Overall stranding	stranded layers schlaglängenoptimiert Conductors twisted without mechanical stress
Overall wrapping	Non-woven material
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 <sub>0</sub> /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V

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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 <sup>2</sup>

#### Element 1

Element construction	5G6
Insulation resistance at 20°C	500.0 MΩ×km

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#### Approvals/Standards

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Approvals	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior	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

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#### General

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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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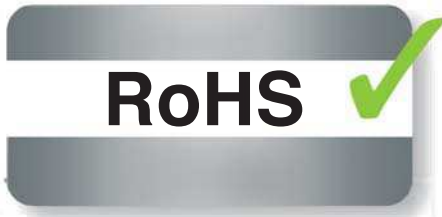
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