

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 4G50 UL 1KV SW
	Part-No.	111378

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+ M PUR 0.6/1kV
Number of conductors/cross-section	4G50
Jacket material	PUR

28.04.2017 – Subject to technical modification

Part-No. 111378

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
 Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
 www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
 Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
 Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
 www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

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Jacket color	black RAL 9005
Outer Ø	36.5 mm
Outer Ø	1.437 inches
Surface	adhesion-free matt
Weight	265.1 kg/100 m
Weight	1642 Lbs/Mft
Cu-Index	200.1 kg/100 m
Cu-Index	1286 Lbs/Mft

Element 1

Element construction	4G50
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 marking standard	DIN EN 50334
Conductor insulation	Special TPE
Stranding	Conductors stranded layers Conductors twisted without mechanical stress

overall construction

Overall stranding	stranded layers layer pitch optimised 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

Technical data

Rated voltage U ₀ /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 ²

Element 1

Element construction	4G50
Insulation resistance at 20°C	500 MΩ×km

Approvals/Standards

Approvals	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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