

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G50 1KV SW

Part No. [111378](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	• Motor connection cable, specifically for machine and device construction, transport and conveyor technology • Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants • Especially for industrial environments, machines and plants
Properties	• 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 M PUR 0.6/1 kV
Number of conductors/cross-section	4G50
Number of conductors	4
Cross-section, metric	50 mm ²
Cross-section AWG	AWG 1
Jacket material	PUR
Jacket color	black similar to RAL 9005

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12.03.2025 • Subject to technical modification

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Outer Ø	33 mm
Outer Ø	1.299 inch
Surface	adhesion-free
Weight	265.1 kg/100 m
Weight	1642 Lbs/Mft
Cu-Index	200.1 kg/100 m
Cu-Index	1286 Lbs/Mft

Construction Element 1

Element construction	4G50
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
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	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
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
Speed	≤2 m/s
Acceleration	≤5 m/s ²

Technical Data Element 1

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

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Operating capacitance wire-wire approx.70 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 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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