

## 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 4G4 1KV SW

Part No. [111372](#)

## 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	4G4
Number of conductors	4
Cross-section, metric	4 mm <sup>2</sup>
Cross-section AWG	AWG 12
Jacket material	PUR
Jacket color	black similar to RAL 9005
Outer Ø	11.6 mm
Outer Ø	0.457 inch
Surface	adhesion-free
Weight	22.2 kg/100 m

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Part No. [111372](#) · Datasheet version: 03

page 1 of 3

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Weight	156 Lbs/Mft
Cu Index	15.5 kg/100 m
Cu Index	103 Lbs/Mft

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#### Construction Element 1

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Element construction	4G4
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
Cabling	Conductors layered construction Conductors twisted without mechanical stress

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#### Overall construction

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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

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#### Technical data

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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×cable OD
Minimum bending radius fixed	4×cable OD
Bending cycles	= 5 Mio
Speed	≤4 m/s
Acceleration	≤5 m/s <sup>2</sup>

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#### Technical Data Element 1

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Element construction	4G4
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.69 pF/m

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### Approvals/Standards

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Approvals	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 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

### 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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