Technical data sheet

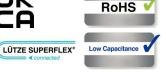
PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV Supply line for Lenze and other systems For highest requirements









Identification

Type SU+ M (C) PUR SE (4G1,0+(2×0,5)) 1kV

Part No. <u>111439</u>

Product version

Datasheet version 00

Use/Application/Properties

Application

- Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant 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 in mechanical and system engineering

Properties • High protection against electromagnetic interferences (EMI)

· Braided shield optimised for continuous flexing use

· 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 (C) PUR SERVO 0.6/1 kV

Number of conductors/cross-section (4G1.0 + (2×0.5))

Number of conductors 6

Cross-section, metric 1 mm²

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Part No. 111439 • Datasheet version: 00



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Jacket material PUR

Jacket color orange similar to RAL 2003

 Outer Ø
 9.6 mm

 Surface
 adhesion-free

 Weight
 13.4 kg/100 m

 Cu-Index
 8 kg/100 m

Construction Element 1

Element construction 4G1

Conductor CU-wire bare
Conductor category IEC 60228, Class 6

Superfinely stranded DIN VDE 0295

Class 6

Conductor marking According to system manufacturer

Conductor insulation Special TPE

Stranding Conductors twisted without mechanical stress

Layer pitch optimised

Construction Element 2

Element construction (2×0.5)

Conductor CU-wire bare

Conductor category IEC 60228, Class 6

Superfinely stranded DIN VDE 0295

Class 6

Conductor marking According to system manufacturer

Conductor insulation Special TPE

Stranding Conductors twisted without mechanical stress

Layer pitch optimised

Wrapping Foil taping
Element shielding Braid shield

Overall construction

Overall stranding Elements stranded together

Layer pitch optimised

Conductors twisted without mechanical stress

Overall wrapping Non-woven material

Overall shield Braid shield

Tinned copper wires

Optical cover approx. 85 %

Jacket characteristics Flame-retardant

Grease-resistant

Petrol-resistant (alcohol-free)

Kerosene-resistant Silicone free Halogen free



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Technical data

Rated voltage U_0/U 600/1000 V Rated voltage UL 1000 V Test voltage type AC 4000 V

Temperature range moving $-25 \,^{\circ}\text{C} \dots +80 \,^{\circ}\text{C}$ Temperature range fixed $-40 \,^{\circ}\text{C} \dots +80 \,^{\circ}\text{C}$

Minimum bending radius moving $7.5 \times D$ Minimum bending radius fixed $5 \times D$ Bending cycles≥10 MioSpeed≤5 m/sAcceleration≤50 m/s²Torsion \pm 30°/m

Technical Data Element 1

Element construction 4G1

Insulation resistance at 20 °C ≥1000 MΩ×km

Operating capacitance wire-wire approx.66 pF/m

Operating capacitance wire-shield approx.119 pF/m

Technical Data Element 2

Element construction (2×0.5)

Operating capacitance wire-wire approx.81 pF/m
Operating capacitance wire-shield approx.146 pF/m

Certifications/Standards

Certifications cURus
UL style AWM 21223

Conformity

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 DIN EN 60811-404

Halogen free according to IEC 60754-1

DIN EN 60754-1

General

Note CE These products are in conformity with the EU Low Voltage Directive 2014/

35/EU

