

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 (4G2,5+(2×0,5)) 1kV

Part No. [111997](#)

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	(4G2.5+(2×0.5))
Number of conductors	6
Cross-section, metric	2.5 mm ²

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Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.8 mm
Surface	adhesion-free
Weight	27.1 kg/100 m
Cu-Index	15.3 kg/100 m

Construction Element 1

Element construction	4G2.5
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

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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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	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.71 pF/m
Operating capacitance wire-shield	approx.128 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	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	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
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