

## Technical data sheet

PUR servo cables · C-track compatible · shielded

**LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV**  
High Flexing Motor Cable for Siemens and other systems  
For highest requirements



### Identification

Type	SU+ M (C) PUR SE (4G25+(2×1,5)) 90°C
Part No.	<a href="#">111426.1000</a>
SIEMENS designation*	1BA25

### Product version

Datasheet version	00
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### Use/Application/Properties

Application	<ul style="list-style-type: none"><li>• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology</li><li>• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks</li><li>• Very good resistance against aggressive coolants and lubricants</li><li>• Especially for industrial environments in mechanical and system engineering</li></ul>
Properties	<ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Braided shield optimised for continuous flexing use</li><li>• Very good alternating bending strength</li><li>• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Weathering, ozone and UV resistant (normal lighting conditions)</li><li>• Excellent coolant and lubricant resistance</li><li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene</li><li>• Silicone free</li></ul>

### Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G25+(2×1,5))
Number of conductors	6
Cross-section, metric	25 mm <sup>2</sup>

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Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	27.4 mm
Surface	adhesion-free, matte
Weight	147.17 kg/100 m
Weight	986.07 Lbs/Mft
Cu-Index	113 kg/100 m
Cable construction	Construction with one signal pair (white, black)

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#### Construction Element 1

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Element construction	(4G25)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- · green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

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#### Construction Element 2

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Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black · white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

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#### Overall construction

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Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

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#### Technical data

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Rated voltage $U_0/U$	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s <sup>2</sup>

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Torsion  $\pm 30^\circ/\text{m}$

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### Technical Data Element 1

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Element construction (4G25)  
Insulation resistance at 20 °C  $\geq 1000 \text{ M}\Omega \times \text{km}$   
Operating capacitance wire-wire 145 pF/m  
Operating capacitance wire-shield 255 pF/m

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### Technical Data Element 2

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Element construction (2×1,5)  
Operating capacitance wire-wire 140 pF/m  
Operating capacitance wire-shield 210 pF/m

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### Certifications/Standards

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Certifications cURus  
UL style AWM 21209  
Conformity CE  
RoHS  
REACH  
Burning behavior according to IEC 60332-1-1 to 1-3  
UL 1581 VW-1  
UL FT1  
Oil resistant according to UL 4d100C  
DIN EN 60811-404  
Halogen free according to IEC 60754-1  
DIN EN 60754-1

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### General

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Note CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU  
\* Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.