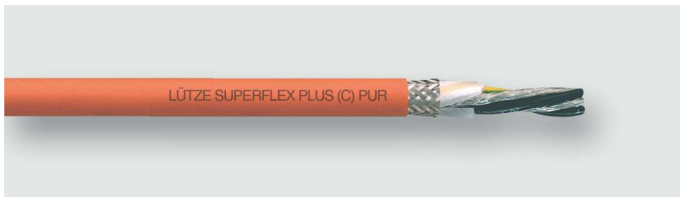


Technical data sheet

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 (4G2,5+(2×1,5)) 90°C
Part No.	111421.1000
SIEMENS designation*	1BA21

Product version

Datasheet version	00
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Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• 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)• 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+(2×1,5))
Number of conductors	6
Cross-section, metric	2.5 mm ²

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Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	13 mm
Surface	adhesion-free, matte
Weight	27.41 kg/100 m
Weight	183.65 Lbs/Mft
Cu-Index	19.3 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G2,5)
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

Construction Element 2

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

Overall construction

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

Technical data

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	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

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

Technical Data Element 1

Element construction (4G2,5)
Insulation resistance at 20 °C $\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire 105 pF/m
Operating capacitance wire-shield 210 pF/m

Technical Data Element 2

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

Certifications/Standards

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

General

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.