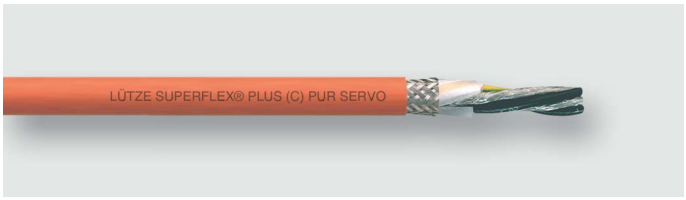
Technical data sheet

PUR servo cables · continuous flexing · 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 (4G16) 90°C
Part No.	111465.1000
SIEMENS designation*	1BB61

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 optimized cable construction optimally suited for continuous flexing applications in C-tracks
- Very good resitance against 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)
- 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	(4G16)
Number of conductors	4
Cross-section, metric	16 mm²
Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	21.2 mm
Surface	adhesion-free

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Weight	89.77 kg/100 m
Weight	601.44 Lbs/Mft
Cu Index	72 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G16)
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
Cabling	Conductors twisted without mechanical stress Layer pitch optimised

Overall construction

Overall stranding	Conductors layered construction 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×cable OD
Minimum bending radius fixed	5×cable OD
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G16)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	245 pF/m

Approvals/Standards

Approvals	cURus
UL style	AWM 21209

Conformity	CE RoHS REACH TSCA
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 * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.