

## 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 (4G6+(2×1,5)) 90°C
Part No.	<a href="#">111423.1000</a>
SIEMENS designation*	1BA41

### Product version

Datasheet version	00
-------------------	----

### 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	(4G6+(2×1,5))
Number of conductors	6
Cross-section, metric	6 mm²

#### United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0  
[www.lutze.com](http://www.lutze.com) • [sales.gb@lutze.co.uk](mailto:sales.gb@lutze.co.uk)

#### Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt  
Tel. +49 (0)7151 6053-0  
[www.luetze.de](http://www.luetze.de) • [info@luetze.de](mailto:info@luetze.de)

## Technical data sheet

### PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	16.2 mm
Surface	adhesion-free
Weight	46.99 kg/100 m
Weight	314.84 Lbs/Mft
Cu-Index	33.9 kg/100 m
Cable construction	Construction with one signal pair (white, black)

#### Construction Element 1

Element construction	(4G6)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, Class 6
Conductor marking	According to system manufacturer
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	According to system manufacturer
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 <sup>2</sup>
Torsion	± 30°/m

## Technical data sheet

PUR servo cables · C-track compatible · shielded

---

### Technical Data Element 1

---

Element construction	(4G6)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	120 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 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.
------	--