

## Technical data sheet

PUR servo cables · C-track compatible · shielded

**LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV**  
Supply line for Bosch Rexroth and other systems  
For highest requirements



### Identification

Type SU+ M (C) PUR SE (4G1,5+2×(2×0,75))  
Part No. [111271.1000](#)  
BOSCH REXROTH designation\* REL0106

### Product version

Datasheet version 01

### Use/Application/Properties

- Application
- For IndraDyn\* S MS2N system and similar
  - 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

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Part No. [111271.1000](#) · Datasheet version: 01

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Number of conductors/cross-section	(4G1.5+2×(2×0.75))
Number of conductors	8
Cross-section, metric	1.5 mm <sup>2</sup>
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.2 mm
Outer Ø	0.48 inch
Surface	adhesion-free, matte
Weight	23.6 kg/100 m
Weight	158.12 Lbs/Mft
Cu-Index	16.2 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

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#### Construction Element 1

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Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · yellow/green
Conductor insulation	TPE

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#### Construction Element 2

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Element construction	2×(2×0.75)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

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#### Overall construction

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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 %

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Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
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#### Technical data

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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 ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

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#### Technical Data Element 1

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Element construction	4G1.5
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 67 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

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#### Technical Data Element 2

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Element construction	$2 \times (2 \times 0.75)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 252 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	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1-2 UL VW1, FT1 UL 1581 UL 2556

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Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

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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 MS2N Motoren. Bosch-Rexroth und REL Artikelbezeichnungen sind eingetragene Warenzeichen der Bosch Gruppe.
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