

Technical data sheet

PVC 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
INK Description*	INK 0650

Product version

Datasheet version	02
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Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* 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	<ul style="list-style-type: none">• 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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SYSTEMATIC TECHNOLOGY

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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 ²
Cross-section AWG	AWG 18
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.9 mm
Outer Ø	0.508 inch
Surface	adhesion-free
Weight	25.5 kg/100 m
Weight	171 Lbs/Mft
Cu-Index	16.2 kg/100 m
Cu-Index	109 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

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	Special TPE

Construction Element 2

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	Special TPE
Stranding	Conductors stranded in pairs Layer pitch optimised Conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

Overall construction

Overall stranding	Elements stranded together Layer pitch optimised Conductors twisted without mechanical stress
Overall wrapping	Non-woven material

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Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Grease-resistant Petrol-resistant (alcohol-free) Kerosene-resistant Silicone free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °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	$\pm 30^\circ/\text{m}$

Technical Data Element 1

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

Technical Data Element 2

Element construction	$2 \times (2 \times 0.75)$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 252 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 part 1080 VW-1 UL FT1 UL VW-1

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Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
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