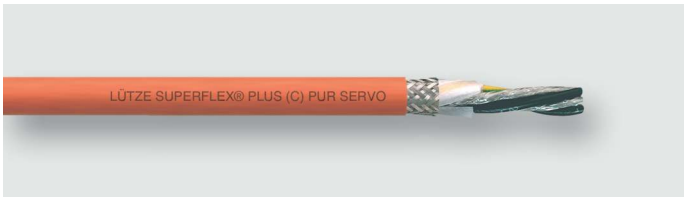
Technical data sheet

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 (4G6+(2×1,0)+(2×1,5))
Part No.	111998.1000
BOSCH REXROTH designation*	REL0109

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

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Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	6 mm²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	18 mm
Outer Ø	0.716 inch
Surface	adhesion-free
Weight	55.6 kg/100 m
Weight	373.61 Lbs/Mft
Cu-Index	38.5 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	According to system manufacturer
Conductor insulation	TPE

Construction Element 2

Element construction	(2×1,0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	According to system manufacturer
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%

Construction Element 3

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6

Conductor marking	According to system manufacturer
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%

Overall construction

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 %
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 … +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/s²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G6
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.84 pF/m
Operating capacitance wire-shield	approx.151 pF/m

Technical Data Element 2

Element construction	(2×1,0)

Insulation resistance at 20 °C	1000 MΩ×km
Operating capacitance wire-wire	approx.135 pF/m
Operating capacitance wire-shield	approx.143 pF/m

Technical Data Element 3

Element construction	(2×1.5)
Insulation resistance 20 °C	1000 MΩ×km
Operating capacitance wire-wire	approx.157 pF/m
Operating capacitance wire-shield	approx.283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
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
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

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.