Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Bosch-Rexroth and other systems
For highest requirements in drive technology

Identification

Type	SU+ (C) PUR FB (4×1,0+4×2×0,14+(4×0,14))
Part No.	111495
INK Description*	INK-0532*

Product version

Datasheet version	01

Use/Application/Properties

Application

- Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor
- Through full PUR jacket and TPE 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 (C) PUR FEEDBACK
Number of conductors/cross-section	(4×1.0+4×2×0.14+(4×0.14))
Number of conductors	16
Cross-section, metric	1 mm²

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Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	9.5 mm
Outer Ø	0.374 inch
Surface	adhesion-free
Weight	13.7 kg/100 m
Weight	92 Lbs/Mft
Cu-Index	9.6 kg/100 m
Cu-Index	65 Lbs/Mft

Construction Element 1

Element construction	4×1.0
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	Special TPE
Stranding	Conductors twisted without mechanical stress Layer pitch optimised

Construction Element 2

Element construction	4×2×0.14
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	Special TPE
Stranding	Conductors stranded in pairs Layer pitch optimised Conductors twisted without mechanical stress

Construction Element 3

Element construction	(4×0.14)
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	Special TPE
Stranding	Layer pitch optimised Conductors twisted without mechanical stress

Overall construction

Overall stranding	Layered construction around core 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	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C … +80 °C
Temperature range fixed	-40 °C … +80 °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	4×1.0
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.51 pF/m
Operating capacitance wire-shield	approx.92 pF/m

Technical Data Element 2

Element construction	4×2×0.14
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.51 pF/m
Operating capacitance wire-shield	approx.92 pF/m

Technical Data Element 3

Element construction	(4×0.14)
Insulation resistance 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.70 pF/m
Operating capacitance wire-shield	approx.126 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
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 * Bosch Rexroth article designations are protected trademarks of the Bosch Group