

# Technical data sheet - LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

## Feedback cables for Bosch-Rexroth and other systems

### For highest requirements in drive technology



PUR feedback cables - C-track compatible

<b>Identification</b>	Type	SU+(C)P SE(2×0,5+2×2×0,25)UL 300V OR
	Part-No.	111781
INK Description*	INK-0750*	

#### Use/Application/Properties

Application	<ul style="list-style-type: none"> <li>• Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor</li> <li>• Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and 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 active and passive interference resistance (EMC)</li> <li>• Braided shield optimised for continuous flexible use</li> <li>• Very good alternating bending strength</li> <li>• Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Weatherproof, ozone and UV resistant (normal lighting conditions)</li> <li>• Good ruggedness and salt water resistance</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Resistant to most oils, greases, alcohol-free benzines and kerosene</li> <li>• Silicone free</li> <li>• RoHS compliant</li> </ul>

19.03.2018 – Subject to technical modification

Part-No. 111781

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223

www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

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SYSTEMATIC TECHNOLOGY

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#### Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×2×0.25+2×0.5)
Jacket material	PUR
Jacket color	orange RAL 2003
Outer Ø	7.6 mm
Outer Ø	0.299 inches
Surface	adhesion-free matt
Weight	9 kg/100 m
Weight	60 Lbs/Mft
Cu-Index	4.2 kg/100 m
Cu-Index	28 Lbs/Mft

#### Element 1

Element construction	2×2×0.25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	grey pink red black
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

#### Element 2

Element construction	2×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white brown
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

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#### 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

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#### 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
Travel distance	≤15 m
Speed	300 m/s
Acceleration	50 m/s <sup>2</sup>

#### Element 1

Element construction	2×2×0.25
Insulation resistance at 20 °C	200 MΩ×km
Operating capacitance wire-wire	53 pF/m
Operating capacitance wire-shield	95 pF/m

#### Element 2

Element construction	2×0.5
Insulation resistance at 20 °C	200 MΩ×km
Operating capacitance wire-wire	61 pF/m
Operating capacitance wire-shield	110 pF/m

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#### Approvals/Standards

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Approvals	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 to the EU Low Voltage Directive 2014/35/EC *Indramat article designations are registered trademarks
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#### Logo



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