

Technical data sheet

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for various systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (3×2×AWG24/19)
Part No.	111437
System	B&R

Product version

Datasheet version	02
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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	(3×2×AWG24/19)
Number of conductors	6
Jacket material	PUR

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Part No. [111437](#) • Datasheet version: 02

page 1 of 3

Technical data sheet

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Jacket color	green similar to RAL 6018
Outer Ø	6.6 mm
Surface	adhesion-free
Weight	6.9 kg/100 m
Cu-Index	2.7 kg/100 m

Construction Element 1

Element construction	(3×2×AWG24/19)
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	According to system manufacturer
Conductor insulation	Special TPE

Overall construction

Overall stranding	Stranded pairs Conductors twisted without mechanical stress Layer pitch optimised
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/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(3×2×AWG24/19)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.58 pF/m

Technical data sheet

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Operating capacitance wire-shield approx.105 pF/m

Technical Data Element 2

Insulation resistance at 20 °C $\geq 200 \text{ M}\Omega \times \text{km}$

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
Oil resistant according to	UL 1581 UL 4d100C 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