

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 (5×0,5+2×2×0,18)
Part No.	111491
System	Fanuc

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	(5×0,5+2×2×0,18)
Number of conductors	9
Cross-section, metric	0.5 mm ²

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SYSTEMATIC TECHNOLOGY

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Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	7.7 mm
Surface	adhesion-free
Weight	9.3 kg/100 m
Cu-Index	6.3 kg/100 m

Construction Element 1

Element construction	5×0.5
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	green • yellow • grey • pink • blue
Conductor insulation	Special TPE
Stranding	Layer pitch optimised Conductors twisted without mechanical stress

Construction Element 2

Element construction	2×2×0.18
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 IEC 60228, Class 6
Conductor marking	white • brown • black • violet
Conductor insulation	Special TPE
Stranding	Conductors stranded in pairs Layer pitch optimised Conductors twisted without mechanical stress

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	300 V
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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	5×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.61 pF/m
Operating capacitance wire-shield	approx.110 pF/m

Technical Data Element 2

Element construction	2×2×0.18
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.56 pF/m
Operating capacitance wire-shield	approx.101 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
Oil resistant according to	UL 1581 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
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