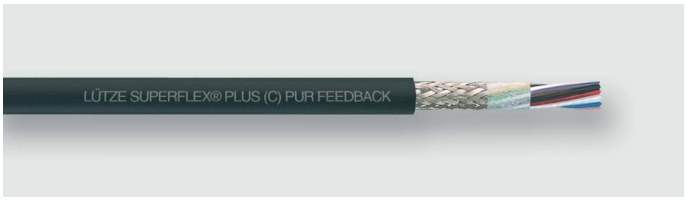
LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Heidenhain and other systems
For highest requirements in drive technology



halogen free flame retardant · LÜTZE SUPERFLEX® connected · Low Capacitance · RoHS

Identification

Type	SU+ (C) PUR FB (4×0,5+4×2×0,14+(4×0,14))
Part No.	111418

Product version

Datasheet version	02

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	(4×0.5+4×2×0.14+(4×0.14))
Number of conductors	16
Cross-section, metric	0.5 mm²
Jacket material	PUR

United Kingdom: LÜTZE Ltd.
Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0
www.lutze.com • sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH
Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0
www.luetze.de • info@luetze.de

Jacket color	black similar to RAL 9005
Outer Ø	8.6 mm
Surface	adhesion-free
Weight	12.3 kg/100 m
Cu-Index	6 kg/100 m

Construction Element 1

Element construction	4×0.5
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	Special TPE
Stranding	Layer pitch optimised Conductors twisted without mechanical stress

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
Element shielding	Spiral shield optical cover approx. 95 % tinned copper wires

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
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	4×0.5
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	4×2×0.14
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	104
Operating capacitance wire-shield	188 pF/m

Technical Data Element 3

Element construction	(4×0.14)
Insulation resistance 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	147 pF/m
Operating capacitance wire-shield	270 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	DIN EN 60811-404 UL 1581
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