Technical data sheet

PUR feedback cables · C-track compatible · shielded

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

Identification

Type	SU+ (C)PUR FB(2×AWG16+2×AWG22+6×2×AWG26)
Part No.	111489

Product version

Datasheet version	02

Use/Application/Properties

Application	• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor • Through optimized cable construction optimally suited for continuous flexing applications in C-tracks • Very good resitance against 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	(2×AWG16+2×AWG22+6×2×AWG26)
Number of conductors	16
Cross-section, metric	1.5 mm²
Cross-section AWG	AWG 16

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 material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	10.8 mm
Outer Ø	0.425 inch
Surface	adhesion-free
Weight	18 kg/100 m
Weight	121 Lbs/Mft
Cu-Index	12 kg/100 m
Cu-Index	81 Lbs/Mft

Construction Element 1

Element construction	2×AWG16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	grey • white/grey
Conductor insulation	Special TPE
Stranding	Layer pitch optimised Conductors twisted without mechanical stress

Construction Element 2

Element construction	2×AWG22
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	orange • white/orange
Conductor insulation	Special TPE
Stranding	Layer pitch optimised Conductors twisted without mechanical stress

Construction Element 3

Element construction	6×2×AWG26
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	white/black • black • white/red • red • white/green • green • white/blue • blue • white/brown • brown • white/yellow • yellow
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	1000 V
Test voltage type	AC 3000 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	2×AWG16
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	75 pF/m
Operating capacitance wire-shield	135 pF/m

Technical Data Element 2

Element construction	2×AWG22
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	60 pF/m
Operating capacitance wire-shield	110 pF/m

Technical Data Element 3

Element construction	6×2×AWG26
Insulation resistance 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	50 pF/m
Operating capacitance wire-shield	90 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223

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