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 (5×2×AWG22) 1kV
Part No.	111488

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
- Feedback cables for Allen-Bradley drives
- Compatible with all major drag chain brands
- Compliant with NFPA 79, Article 12.9

Properties

- High active and passive interference resistance (EMC)
- 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
- UV-resistant
- Industrial and salt water resistant
- Excellent coolant and lubricant resistance
- Largely resistant to oils, greases, alcohol-free benzines and kerosene
- Talc free and silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(5×2×AWG22)

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Number of conductors	10
Cross-section, metric	0.34 mm²
Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.2 mm
Outer Ø	0.362 inch
Surface	adhesion-free, matte
Weight	10.7 kg/100 m
Weight	72 Lbs/Mft
Cu-Index	5.4 kg/100 m
Cu-Index	36 Lbs/Mft

Construction Element 1

Element construction	(5×2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white/black • black • white/red • red • white/green • green • white/grey • grey • white/orange • orange
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	stranded pairs 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	(5×2×AWG22)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	60 pF/m
Operating capacitance wire-shield	110 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