Technical data sheet

PUR electronic cables · C-track compatible · Shielded

LÜTZE SUPERFLEX® TRONIC (C) PUR
Shielded electronic cable UL recognized
For highest requirements

Identification

Type	SU TR (C) PUR (3×0,25)
Part No.	117100

Product version

Datasheet version	00

Use/Application/Properties

Application

- C-track as well as everywhere where signals are transmitted to continuously moving system or machine parts
- Machine and device construction, transport and conveyor technology, heating and climate technology
- In dry and damp rooms
- As monitoring, measurement and control cable for continuous bending loads
- Especially for industrial environments with high EMI potential in machine, plant and device construction

Properties

- High protection against electromagnetic interferences (EMI)
- Braided shield optimised for continuous flexing use
- Low capacitance, very good electrical properties
- Flame retardant, self extinguishing
- Halogen free, no corrosive gases
- Very good alternating bending strength
- Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- 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® TRONIC (C) PUR

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Number of conductors/cross-section	(3×0.25)
Number of conductors	3
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	4.7 mm
Outer Ø	0.185 inch
Surface	adhesion-free
Weight	2.8 kg/100 m
Weight	20 Lbs/Mft
Cu-Index	1.6 kg/100 m
Cu-Index	11 Lbs/Mft

Construction Element 1

Element construction	(3 × 0.25)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	Color coded
Conductor marking standard	DIN 47100
Conductor insulation	Special TPE

Overall construction

Overall stranding	Conductors layered construction 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 Self-extinguishing Halogen free Oil resistant Grease-resistant Petrol-resistant (alcohol-free) Kerosene-resistant Silicone free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	80 °C
Temperature range moving	-25 °C … +80 °C
Temperature range fixed	-40 °C … +80 °C

Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Bending cycles	≥5 Mio
Travel distance	≤20 m
Speed	4 m/s
Acceleration	5 m/s²

Technical Data Element 1

Element construction	(3 × 0.25)
Insulation resistance at 20 °C	≥1000 MΩ×km

Certifications/Standards

Certifications	cURus
UL style	AWM 20549
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-2-2 DIN EN 60332-2-2 UL 1581 Horizontal Flame Test UL FT2
Oil resistant according to	DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1
UV-resistant according to	UL 1581/2556-300h

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU