

Technical data sheet

PUR actuator-sensor cables · C-track suitable

LÜTZE SUPERFLEX® TRONIC AS (C) PUR, shielded
For highest requirements



Identification

Type SU TR AS (C) PUR (5×0,34)
Part No. [117255.2000](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- Connecting cable for the actuator-sensor technology
 - For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
 - PUR jacket optimally suited for harsh operating conditions and aggressive coolants and lubricants
- Properties
- Very good alternating bending strength
 - High protection against electromagnetic interferences (EMI)
 - Good pressure and roll-over resistance
 - 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® TRONIC AS (C) PUR
Number of conductors/cross-section (5×0.34)
Number of conductors 5
Cross-section, metric 0.34 mm²
Cross-section AWG AWG 22
Jacket material PUR
Jacket color black similar to RAL 9005
Outer Ø 5.5 mm
Outer Ø 0.217 inch
Surface adhesion-free, matte

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Weight	4.8 kg/100 m
Weight	32.16 Lbs/Mft
Cu Index	2.8 kg/100 m
Cu Index	19 Lbs/Mft

Construction Element 1

Element construction	(5×0.34)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	brown · white · blue · black · grey
Conductor marking standard	EN 60947-5-2
Conductor insulation	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	Low-adhesion Abrasion resistant Tough Tear resistant Hydrolysis-resistant Microbe resistant Rot resistant Weather resistant Ozone-resistant UV resistant (normal lighting conditions) Service water-resistant Salt water-resistant Coolant-resistant Lubricant-resistant Oil resistant Grease-resistant Petrol-resistant (alcohol-free) Kerosene-resistant Silicone free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	80 °C
Temperature range moving	-20 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C

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Minimum bending radius moving	12×cable OD
Minimum bending radius fixed	6×cable OD
Bending cycles	≥5 Mio
Travel distance	≤20 m
Speed	≤4
Acceleration	≤5

Technical Data Element 1

Element construction	(5×0.34)
Insulation resistance at 20 °C	≥100 MΩ×km
Conductor resistance	≤65.3 Ω/km
Operating capacitance wire-wire	≤105 pF/m
Operating capacitance wire-shield	≤205 pF/m

Approvals/Standards

Approvals	cURus
UL style	AWM 20549
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-2-2 UL 1581 Horizontal Flame Test CSA FT 1
Oil resistant according to	UL 758 UL 4d100C DIN EN 60811-404
Halogen free according to	EN 60754-1 VDE 0482-754-1

General

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