Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV
Combined power supply cable for servo motors with Hiperface DSL® interface
For the highest of standards

Identification

Type	SU+ M(C)PUR HY (4G2,5+(2×1,0)+(2×AWG22))
Part No.	111632

Product version

Datasheet version	03

Use/Application/Properties

Application

- Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology
- Through full PUR jacket and TPE / HGI 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 M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(2×1.0)+(2×AWG22))
Number of conductors	8
Cross-section, metric	2.5 mm²

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Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	14.5 mm
Outer Ø	0.571 inch
Surface	adhesion-free
Weight	31.4 kg/100 m
Cu-Index	21.7 kg/100 m
Cable construction	With control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G2.5
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	Polyolefin
Stranding	Conductors layered construction

Construction Element 2

Element construction	(2×1.0)
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	Polyolefin
Stranding	Conductors stranded in pairs
Wrapping	Transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
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	Polyolefin
Stranding	Conductors stranded in pairs
Element shielding	Foil shield Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	Elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °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	4G2.5
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.0)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21223

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

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