

Technical data sheet

Motor- / Servo Cable Silflex TSP XLPE (C) PVC · Shielded

LUTZE DRIVEFLEX® CONTROL TSP XLPE (C) PVC

Twisted Shielded Pair Cable for Control Signals for Stationary Applications



Identification

Type VFD TSP XLPE (C) PVC (1×2×AWG16)
Part No. [A2441602](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Easily add control pairs to any VFD circuits• Twisted shielded pair cable for VFD and motor applications to transmit control signals from drives to motor• Separating control from power allows full ampacity rating of the power cable• Cable design for harsh industrial environments and operating conditions with high noise levels• Thermoset XLPE offering superior overload and short-circuit temperature• Compliant with NFPA 79 requirements• TC-ER for use on machines and in cable trays without conduit• WTTC – wind turbine tray cable rating for use in wind power generation• Dry, damp or wet conditions |
| Properties | <ul style="list-style-type: none">• Flexible XLPE conductors• High insulation resistance• Low-capacitance cable• Effective dual layer shield for EMC compliance• Specially formulated jacket for oil resistance and easy strip design• Non-wicking fillers• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures• Crush impact resistant• Gas/vapor-tight sheath per UL 1277• Sunlight resistant• Flame-retardant• Direct burial• Talc free and silicone free |

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SYSTEMATIC TECHNOLOGY

Technical data sheet

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Construction

Description	DRIVEFLEX® CONTROL TSP XLPE (C) PVC
Number of conductors/cross-section	(1×2×AWG16)
Number of conductors	2
Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 16
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	9.4 mm
Outer Ø	0.37 inch
Weight	88 Lbs/Mft
Cu-Index	36 Lbs/Mft

Construction Element 1

Element construction	AWG16/1TSP
Conductor construction	AWG 16 (26/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire Class K
Conductor marking	black • with white number print
Conductor insulation	XLPE XHHW-2 Wet/Dry
Stranding	conductors stranded in pairs
Element shielding	in pairs Foil shield

Overall construction

Drain wire	CU-wire tin-plated
Overall shield	Braid shield tinned copper wires optical cover approx. 80 %
Jacket characteristics	Oil resistant Silicone-free

Technical data

Rated voltage U _N	600 V TC-ER 90C 1000 V Flexible VFD servo cable 1000 V WTTC 90C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	AWG16/1TSP
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Certifications/Standards

Certifications	UL Flexible Motor Supply Cable Flexible VFD Servo Cable UL Type TC-ER WTTTC Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II

General

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