

Technical data sheet

PVC motor and servo cables · unshielded

LUTZE SILFLEX® M XLPE PVC

Flexible Motor Supply Cable XHHW-2 for Stationary Applications



Identification

Type SI M XLPE PVC 4×AWG1
Part No. [A1100104](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Motor supply cable to connect power to 3-phase-motors and servo drives• Thermoset XLPE insulation offering superior overload and short-circuit temperature• Compliant with NFPA 79 requirements• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments• 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• Reduced cable diameter• High insulation resistance• Low capacitance cable• 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 |

Construction

Description	SILFLEX® M XLPE PVC
Number of conductors/cross-section	4×AWG1
Number of conductors	4
Cross-section, metric	50 mm ²
Cross-section AWG	AWG 1
Jacket material	PVC

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Jacket color	black similar to RAL 9005
Outer Ø	35.2 mm
Outer Ø	1.385 inch
Weight	1505 Lbs/Mft
Cu Index	1068 Lbs/Mft

Construction Element 1

Element construction	AWG1/04C
Conductor construction	AWG 1 (840/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	Fine wire Class K
Conductor marking	black · with white number print · Ground conductor: green/yellow
Conductor insulation	XLPE XHHW-2 Wet/Dry

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Rated voltage U_N	600 V TC-ER 90C 1000 V Flexible VFD servo cable 90C 1000 V WTTC 90C
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius fixed	4×cable OD

Technical Data Element 1

Element construction	AWG1/04C
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Approvals/Standards

Approvals	UL Flexible Motor Supply Cable Flexible VFD Servo Cable TC-ER WTTC Meets NEC 336, 392 Class I and II, Div. 2 Zone 2 per NEC 501, 502, 505 Submersible Pump C(UL) TC and CIC FT4 UL 1277
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II

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General

Note

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