

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×AWG3/0
Part No. [A1103/004](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- 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
- 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×AWG3/0
Number of conductors 4
Cross-section, metric 95 mm²
Cross-section AWG AWG 4
3/0
Jacket material PVC

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Jacket color	black similar to RAL 9005
Outer Ø	43.4 mm
Outer Ø	1.71 inch
Weight	2651 Lbs/Mft
Cu Index	2064 Lbs/Mft

Construction Element 1

Element construction	3/0/04C
Conductor construction	3/0 (1664/30)
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

Technical data

Rated voltage U_N	600 V TC-ER 90C 1000 V Flexible VFD servo cable 90C 1000 V WTTC 90C 1000 V 105C AWM
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	3/0/04C
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Approvals/Standards

Approvals	UL Flexible Motor Supply Cable Flexible VFD Servo Cable TC-ER WTTC UL DP-1 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
UL style	AWM 20886
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