

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×AWG12

Part No. [A1101204](#)

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×AWG12

Number of conductors 4

Cross-section, metric 4 mm²

Cross-section AWG AWG 12

Jacket material PVC

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222

www.lutze.com • info@lutze.com

30.01.2025 • Subject to technical modification

Part No. [A1101204](#) • Datasheet version: 00

page 1 of 3

Technical data sheet

PVC motor and servo cables · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	12.7 mm
Outer Ø	0.5 inch
Weight	162 Lbs/Mft
Cu Index	84 Lbs/Mft

Construction Element 1

Element construction	AWG12/04C
Conductor construction	AWG 12 (65/30)
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	AWG12/04C
----------------------	-----------

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

Technical data sheet

PVC motor and servo cables · unshielded

General

Note

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