ÖLFLEX® FD VFD

Continuous flex VFD cable; 600V/1000V; UL & c(UL) TC-ER approval

ÖLFLEX® FD VFD is a shielded continuous flex motor supply cable. It is designed with the LAPP Surge Guard insulation system, which includes a semiconductive layer made to withstand nonlinear power distortions associated with VFD drives in industrial applications. It is resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries. For bending cycles and operation parameters, see www.lappusa.com/cf-rating

Recommended applications

VFD drives and motor connections in continuous flex applications; plastic extrusion; on/off, slow down/speed up applications

Approvals

c UL us · FIRE PROTECTION · CSA · CE · RoHS · Continuous Flex Test Method Verified UL VERIFIED verifyUL.com A522492

Cable attributes			page 648
OIL	OR-03	FLAME	FR-03
MOTION	CF-02*	MECH.	MP-03

Construction

Conductors: finely stranded bare copper

Insulation: LAPP Surge Guard insulation system

Shielding: barrier tape; triple layer foil tape (100% coverage); tinned copper braid (85% coverage)

Jacket: specially formulated thermoplastic polymer; black

Application advantage

- Continuous flex rated for cable chain applications
- Double-shielded for extra protection
- UL TC-ER & c(UL) CIC/TC approval
- Resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure

Complete the installation

SKINTOP® MS-SC
page 522

EPIC® ULTRA HB
page 404

Technical data

Minimum bend radius:
- for flexible use: 5 x cable diameter
- for continuous flexing: 7.5 x cable diameter

Temperature range:
- for continuous flexing: -5°C to +90°C
- for stationary use: -40°C to +105°C
- UL/CSA: -25°C to +90°C

Nominal voltage:
- UL/CSA TC: 600V
- UL WTTC: 1000V
- UL Flexible Motor Supply: 1000V
- UL/CSA AWM: 1000V

Test voltage: 2000V

Peak voltage: 7500V

Conductor stranding: Class M fine wire

Color code: black with white numbers, plus green/yellow ground

Approvals:

UL:	TC-ER per UL 1277 MTW per UL 1063 WTTC per UL 2277 AWM 20886
Attributes:	UL Oil Res I/II 75°C wet; 90°C dry -40°C cold bend; -25°C cold impact sunlight resistant direct burial NFPA 79
NEC:	Class 1 Division 2 per NEC Article 501
Canada:	c(UL) CIC/TC FT4 CSA AWM I/II A/B 1000V FT4
Additional:	CE & RoHS
*UL Verified ID A522492:	Continuous Flex Test Method Verified

Part number	Number of conductors incl. ground	Nominal outer diameter in	mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread	SKINTOP® MS-M BRUSH metric thread
14 AWG (2.5 mm²)							
771404	4	0.500	12.7	84	133	53112240	53112676
12 AWG (4 mm²)							
771204	4	0.575	14.6	122	180	53112250	53112676

Part number	Number of conductors incl. ground	Nominal outer diameter in	mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread	SKINTOP® MS-M BRUSH metric thread
10 AWG (6 mm²)							
771004	4	0.690	17.5	180	271	53112260	53112677

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.