

ÖLFLEX® VFD 2XL

Flexible VFD cable; 600V/1000V/2000V; UL & c(UL) TC-ER approval



ÖLFLEX® VFD 2XL is a robust oil- and UV-resistant shielded motor cable for VFD drives. The XLPE (plus) insulation with enhanced electrical properties can withstand twice the dielectric voltage test, provides extended performance, and is suitable for 2kV applications.

Recommended applications

VFD drive and motor connections; pumps; compressors; conveyors; elevators; extruders; presses; HVAC; on/off, slow down/speed up applications

Approvals



Cable attributes		page 648	
OIL	OR-03	FLAME	FR-03
MOTION	FL-01	MECH.	MP-03

Construction

Conductors: finely stranded tinned copper

Insulation: XLPE (plus)

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

Jacket: specially formulated thermoplastic elastomer (TPE); black

Application advantage

- One cable for applications up to 2kV
- Low capacitance design
- Industrial grade phthalate-free jacket designed for harsh environments
- UL TC-ER & c(UL) CIC/TC approved
- Reduces space and weight in tray
- No conduit required due to TC-ER rating

Complete the installation



Technical data

Minimum bend radius: 7.5 x cable diameter

Temperature range:
 - UL/CSA TC: -25°C to +90°C
 - for stationary use: -40°C to +105°C
 - for flexible use: -25°C to +105°C

Nominal voltage:
 - UL TC: 600V/2000V
 - UL Flexible Motor Supply: 1000V
 - c(UL) CIC/TC: 600V
 - cRU AWM: 1000V

Test voltage: 6000V

Conductor stranding:
 - 16 - 6 AWG: Class 5 fine wire
 - 4 - 2 AWG: Class K fine wire

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

Approvals:
 UL: TC-ER per UL 1277
 Attributes: UL Oil Res I/II
 90°C wet or 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
 cRU AWM I/II A/B FT4
 Additional: CE (50V - 1kV) & RoHS

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
16 AWG (1.5 mm²)						
700700	4 + drain	0.509	12.9	70	160	53112240 53112676
14 AWG (2.5 mm²)						
700701	4 + drain	0.582	14.8	100	196	53112250 53112676
12 AWG (4 mm²)						
700702	4 + drain	0.656	16.7	144	258	53112250 53112677
10 AWG (6 mm²)						
700703	4 + drain	0.707	18.0	199	320	53112260 53112677

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
8 AWG (10 mm²)						
700704	4 + drain	0.887	22.5	298	575	53112260 53112678
6 AWG (16 mm²)						
700705	4	1.022	25.9	518	885	53112270 53112678
4 AWG (21 mm²)						
700706	4	1.158	29.4	642	1055	53112270 53112679
2 AWG (33.7 mm²)						
700707	4	1.332	33.8	980	1460	- 53112679