

ÖLFLEX® VFD 2XL with Signal

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

LAPP KABEL STUTTGART ÖLFLEX® VFD 2XL with Signal



ÖLFLEX® VFD 2XL with Signal is a robust oil- and UV-resistant shielded motor cable for VFD drives, with a pair for brake or temperature sensor. 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)

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



SKINTOP®
MS-SC
page 522



EPIC®
ULTRA HB
page 404

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 and one black pair with white numbers

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)							
700710	4 + (18 AWG)	0.652	16.6	91	200	53112250	53112677
14 AWG (2.5 mm²)							
700711	4 + (18 AWG)	0.687	17.4	132	252	53112250	53112677
12 AWG (4 mm²)							
700712	4 + (18 AWG)	0.752	19.1	160	294	53112260	53112677
10 AWG (6 mm²)							
700713	4 + (18 AWG)	0.798	20.3	215	354	53112260	53112677

() = shielded pair

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)							
700714	4 + (14 AWG)	0.986	25.0	334	690	53112270	53112678
6 AWG (16 mm²)							
700715	4 + (14 AWG)	1.112	28.2	504	905	53112270	53112679
4 AWG (21 mm²)							
700716	4 + (14 AWG)	1.259	32.0	667	1125	—	53112679
2 AWG (33.7 mm²)							
700717	4 + (14 AWG)	1.403	35.6	1027	1580	—	53112680

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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.