ÖLFLEX® VFD with Signal

Flexible VFD Cable with a Control Pair; 600V/1000V; UL & c(UL) TC Approval

ÖLFLEX® VFD with Signal is an extremely oil- and UV-resistant shielded motor power cable for VFD drives, with an additional pair for brake or temperature sensor. 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 and to disperse increases in voltage.

Construction

Conductors: Finely stranded tinned 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

Recommended Applications

VFD drive and motor connections with temperature sensors or brake mechanisms; web presses; HVAC; any on/off, slow down/speed up applications

Application Advantage

- "Lapp Surge Guard" insulation system
- UL TC-ER & c(UL) CIC TC approved
- Double-shielded for extra protection
- Contains pair for brake or temperature sensor

Approvals

Cable Attributes, see page 659

OR-03	FR-03	FL-01	MP-03
OIL	FLAME	MOTION	MECHANICAL

Use our VFD Cable Selection Guide, page 679

Complete the Installation

SKINTOP® Strain Relief: page 528

EPIC® Connectors: page 278

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

Test Voltage: 2000V

Peak Voltage: 7500V

Conductor Stranding:
- 18-6 AWG: Class 5 fine wire
- 4 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
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
Submersible Pump (14 AWG and larger)
Bus Drop
NFPA 79 2015

NEC: Class 1 Division 2 per NEC Articles 336, 501

Canada: c(UL) CIC/TC FT4
CSA AWM I/II A/B 1000V FT4

Additional: MSHA P-07-KA050011-MSHA
CE & RoHS

Part Number	Number of Conductors	1 Shielded Pair for Signal	Nominal Outer Diameter (inches)	Nominal Outer Diameter (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)								
7416048	4	18 AWG	0.519	13.2	88	180	53112240	53112676
14 AWG (2.5 mm²)								
7414048	4	18 AWG	0.573	14.6	118	216	53112250	53112676
7414044	4	14 AWG	0.600	15.2	141	254	53112250	53112676
12 AWG (4 mm²)								
7412048	4	18 AWG	0.632	16.1	162	286	53112250	53112677
7412044	4	14 AWG	0.662	16.8	187	326	53112250	53112677
10 AWG (6 mm²)								
7410044	4	14 AWG	0.745	18.9	260	406	53112260	53112677
8 AWG (10 mm²)								
7408044	4	14 AWG	0.896	22.8	375	617	53112260	53112678
6 AWG (16 mm²)								
7406044	4	14 AWG	1.026	26.1	472	848	53112270	53112678
4 AWG (21 mm²)								
7404044*	4	14 AWG	1.324	33.6	643	1251	–	53112679

* A minimum order may apply.

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