ÖLFLEX® VFD with Signal
Flexible VFD cable with a control pair; 600V/1000V; UL & c(UL) TC-ER 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 LAPP Surge Guard insulation, which includes a semiconductive layer made to withstand nonlinear power distortions associated with VFD drives and to disperse increases in voltage. It is resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries.

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

Approvals

Minimum bend radius: 7.5 x cable diameter
Temperature range:
- UL/CSA TC:
  - for stationary use: -25°C to +90°C
  - for flexible use: -25°C to +105°C

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

Test voltage: 2000V
Peak voltage: 7500V

Conductor stranding:
- 16 - 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
NFPA 79
NFP A
NEC: Class 1 Division 2 per NEC Article 501
Canada: c(UL) CIC/TC FT4
CSA AWM I/II A/B 1000V FT4
Additional: MSHA P-07-KA05001-MSHA
CE & RoHS

Part number Number of conductors incl. ground Nominal outer diameter in mm Copper weight lbs/ft/lb Approx. weight lbs/ft SKINTOP® MS-SC PG thread SKINTOP® MS-M BRUSH metric thread SKINTOP® MS-M BRUSH metric thread
16 AWG (1.5 mm²)
7416044 4 + (14 AWG) 0.600 15.2 286 7412048 4 + (18 AWG) 0.632 16.1 162 7414044 4 + (14 AWG) 0.662 16.8 187
14 AWG (2.5 mm²)
7414048 4 + (18 AWG) 0.573 14.6 118 216
7414044 4 + (14 AWG) 0.600 15.2 141 254
12 AWG (4 mm²)
7412048 4 + (18 AWG) 0.532 13.2 88 180
7414044 4 + (14 AWG) 0.562 13.9 105 218

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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.