

VFD cable

Flexible cable for drives, motors & assemblies

ÖLFLEX® VFD SLIM

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



ÖLFLEX® VFD SLIM is a reduced-diameter shielded motor cable for VFD drives. 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 caused by wave reflection, spikes, in-rush current, and harmonics. 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 applications; web presses; HVAC; conveyors; on/off, slow down/speed up applications

Approvals

Cable attributes page 648

| | | | |
|--------|-------|-------|-------|
| OIL | OR-03 | FLAME | FR-03 |
| MOTION | FL-01 | MECH. | MP-03 |

ConstructionConductors: finely stranded tinned copperInsulation: LAPP Surge Guard insulation systemShielding: barrier tape; triple layer foil tape (100% coverage); tinned copper braid (85% coverage)Jacket: specially formulated thermoplastic polymer; black**Application Advantage**

- LAPP Surge Guard insulation protection
- UL TC-ER & c(UL) CIC/TC approved
- Double shielded for extra protection
- 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 522EPIC®
ULTRA HB
page 404**Technical data**

Minimum bend radius: 7.5 x cable diameter

Color code:

black with white numbers,
plus green/yellow ground

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

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° cold impact
sunlight resistant
Submersible pump (14 AWG & larger)
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: MSHA P-07KA050013-MSHA
CE & RoHS

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*
 - 4-2 AWG: Class K fine wire
- * 18 AWG meets only Class 5 cross section and DC resistance

| 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 |
|------------------------------------|-----------------------------------|------------------------------|-----------------------|------------------------|--------------------------|-----------------------------------|
| 18 AWG (1 mm²) | | | | | | |
| 761804 | 4 | 0.394 | 10.0 | 53 | 112 | 53112230 |
| 16 AWG (1.5 mm²) | | | | | | |
| 761604 | 4 + drain | 0.465 | 11.8 | 73 | 154 | 53112240 |
| 14 AWG (2.5 mm²) | | | | | | |
| 761404 | 4 | 0.514 | 13.1 | 100 | 194 | 53112240 |
| 12 AWG (4 mm²) | | | | | | |
| 761204 | 4 | 0.583 | 14.8 | 139 | 254 | 53112250 |
| 10 AWG (6 mm²) | | | | | | |
| 761004 | 4 | 0.697 | 17.7 | 195 | 346 | 53112260 |
| 76112677 | | | | | | |

| 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) | | | | | | |
| 760804 | 4 | 0.829 | 21.1 | 326 | 596 | 53112260 |
| 6 AWG (16 mm²) | | | | | | |
| 760604 | 4 | 1.002 | 25.5 | 494 | 785 | 53112270 |
| 4 AWG (21 mm²) | | | | | | |
| 760404 | 4 | 1.186 | 30.1 | 648 | 965 | 53112270 |
| 2 AWG (33.7 mm²) | | | | | | |
| 760204 | 4 | 1.395 | 35.4 | 985 | 1339 | 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.

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