

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 |