

## ÖLFLEX® VFD 2XL with Signal

Multi-listed, flexible VFD cable with a pair for brake or temperature sensor

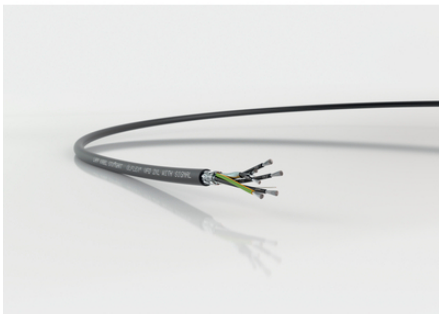
ÖLFLEX® VFD 2XL - screened VFD cable for fixed installation or occasional flexing with UL TC-ER.

### Info

VFD drive and motor connections

Wide application range (NFPA 70/NEC)/ compliance with NFPA 79 for industrial machinery

EMC-compliant



Flame-retardant



Mechanical resistance



Oil-resistant



Interference signals



### Benefits

One common cable for multiple circuits

Multi-standard certification reduces part varieties and saves costs

Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)

Low capacitance design enables longer cable connection between frequency converter and motor

UL TC-ER and c(UL) CIG/TC approved

### Application range

Connecting cable between Frequency converter and motor

For fixed installation or applications with occasional movements

Last Update (24.04.2024)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

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## ÖLFLEX® VFD 2XL with Signal

Class 1 Division 2 per NEC Articles 336, 501  
Plant engineering  
Industrial machinery and machine tools

### Product features

Oil-resistant according to UL OIL RES I & II  
Flame-retardant according to CSA FT4  
UL Vertical-Tray Flame Test  
90°C Wet or Dry; -40°C Cold Bend; -25°C Cold Impact  
Sunlight Resistant; Direct Burial

### Norm references / Approvals

UL TC-ER (exposed run) per UL 1277  
Class 1 Division 2 per NEC Articles 336, 501  
Flexible Motor Supply Cable per UL 2277  
c(UL) CIC/TC FT4; cRU AWM I/II A/B FT4  
CE (50V - 1kV)

### Product Make-up

Fine-wire, tinned-copper conductor  
Core insulation: XLPE  
Control pair with laminated aluminium film and tin-plated drain wire  
Barrier tape  
Aluminum-coated foil  
Tinned-copper braiding with drain wire  
Outer sheath: Specially formulated thermoplastic elastomer (TPE), black

### Technical Data

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC000057<br>ETIM 5.0 Class-Description: Low voltage power cable                                   |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000057<br>ETIM 6.0 Class-Description: Low voltage power cable                                   |
| Core identification code: | Black with white numbers                                                                                             |
| Certifications:           | USA: UL TC-ER, WTTTC, Flexible Motor Supply<br>Canada: c(UL) CIC/TC FT4, cRU AWM I/II A/B FT4                        |
| Conductor stranding:      | Fine wire                                                                                                            |
| Minimum bending radius:   | Occasional flexing: 15 x outer diameter<br>Fixed installation: 7.5 x outer diameter                                  |
| Nominal voltage:          | UL TC: 600V/2000V<br>UL Flexible Motor Supply: 1000V<br>c(UL) CIC/TC: 600V<br>cRU AWM: 1000V<br>IEC U0/U: 600/1000 V |
| Test voltage:             | 6000 V                                                                                                               |
| Protective conductor:     | G = with GN-YE protective conductor                                                                                  |
| Temperature range:        | Occasional flexing: -25°C to +90°C<br>Fixed installation: -40°C to +90°C                                             |

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### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq 30$  kg or  $\leq 250$  m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 610 m drum or 8 x 76 m coils).

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

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| Article number | Number of cores and mm <sup>2</sup> /AWG sizes per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|--------------------------------------------------------------|---------------------|----------------------|----------------|
| 700710         | 4 G 1,5 + (2 x 1,0)                                          | 16.6                | 135.408              | 298            |
| 700711         | 4 G 2,5 + (2 x 1,0)                                          | 17.4                | 196.416              | 375            |
| 700712         | 4 G 4 + (2 x 1,0)                                            | 19.1                | 238.08               | 438            |
| 700713         | 4 G 6 + (2 x 1,0)                                            | 20.3                | 319.92               | 527            |
| 700714         | 4 G 10 + (2 x 2,5)                                           | 25.0                | 496.992              | 1027           |
| 700715         | 4 G 16 + (2 x 2,5)                                           | 28.2                | 749.952              | 1347           |
| 700716         | 4 G 4AWG + (2 x 2,5)                                         | 32.0                | 992.496              | 1674           |
| 700717         | 4 G 2AWG + (2 x 2,5)                                         | 35.6                | 1,528.176            | 2351           |

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