

ÖLFLEX® VFD 2XL

Multi-listed, flexible VFD cable

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

Info

Suitable for inverter drives of various manufacturers

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

EMC-compliant



Interference signals



Oil-resistant



Mechanical resistance



Flame-retardant



Benefits

Reduced insulation wall thickness, therefore a space-saving installation

Multi-standard certification reduces part varieties and saves costs

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

Longer cable connection possible between converter and drive due to low capacitance design

UL TC-ER and c(UL) CIC/TC approval

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Application range

Connecting cable between frequency converter and motor
For fixed installation and applications with occasional movements
Areas at risk of explosion (class 1 division 2) in accordance with NEC articles 336, 501
Plant construction
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 (UV-resistant); direct burial (can be buried in the ground according to US standards)

Norm references / approvals

UL TC-ER (exposed run) according to UL 1277
Class 1 division 2 in accordance with NEC art. 336, 501
Flexible motor supply cable according to UL
c(UL) CIC/TC FT4; cRU AWM I/II A/B FT4
CE (50V - 1kV)

Design

Fine-wire, tin-plated copper conductor
Core insulation: XLPE
Aluminium-coated foil
Screening braid made of tin-plated copper wires
Outer sheath: Specially designed thermoplastic elastomer (TPE), black

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Power cable
Core identification code:	Black with white numbers
Certifications:	USA: UL TC-ER, WTTTC, Flexible Motor Supply Canada: c(UL) CIC/TC FT4, cRU AWM I/II A/B FT4
Conductor design:	Fine wire
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 7.5 x outer diameter
Nominal voltage:	UL TC: 600V/2000V UL Flexible Motor Supply: 1000V c(UL) CIC/TC: 600V cRU AWM: 1000V IEC U ₀ /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 Fixed installation: -40°C to +90°C

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Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

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

Photographs 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 ² /AWG sizes per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
700700	4 G 1,5	12.9	104.16	238
700701	4 G 2,5	14.8	148.8	292
700702	4 G 4	16.7	214272	384
700703	4 G 6	18	296112	476
700704	4 G 10	22.5	443424	856
700705	4 G 16	25.9	770784	1317
700706	4 G 4AWG	29.4	955296	1570
700707	4 G 2AWG	33.8	1,458.24	2173

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Product Management www.lappkabel.de

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

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