ÖLFLEX® SERVO FD zeroCM

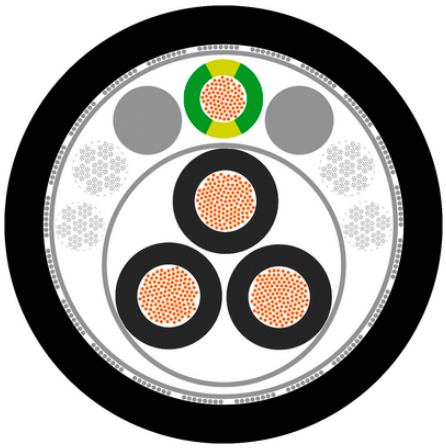
Symmetrical motor cable with improved EMC and simplified connection for power chain application - certified

ÖLFLEX® SERVO zeroCM - symmetrical motor cable with improved EMC and simplified connection for power chain application in harsh conditions with UL/CSA AWM.

Info

Patented "zeroCM" CommonMode-Technology - 100% symmetry thanks to innovative cable design
Core Line Performance - Medium to increased travel lengths or acceleration
Reduced parasitic currents, improved EMC, easy connection





Halogen-free

Cold-resistant

Mechanical resistance

Oil-resistant

Power chain

Interference signals

UV-resistant

Benefits

Symmetrical cable design increases the EMC and significantly reduces leakage and motor bearing currents, interference on data transmission as well as corrosion on building structures
Low capacitance bundle design with counterrotating protective conductor enables longer cable connection between frequency

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converter and motor and significantly simplyfies the cable connection
Copper braiding screens the cable against
electromagnetic interference
Allows much faster speed and accelerations which increases the economic efficiency of the machines
Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
Wide temperature range for applications in harsh climatic environments

Application range

Connecting cable between frequency converter and motor
In power chains or moving machine parts
For use in assembling & pick-and-place machinery
Particularly in wet areas of machine tools and transfer lines
Assembly lines, production lines, in all kinds of machines
For indoor and outdoor use

Product features

Oil-resistant according to EN 50363-10-2
Resistant to drilling fluids according to 60092-360, annex C+D
Fire behaviour:
- Halogen-free acc. to IEC 60754-1
- Flame-retardant acc. to IEC 60332-1-2,
UL VW-1, CSA FT1
UV-resistant according to ISO 4892-2 and ozone resistant acc. to EN 50396
Low capacitance
Abrasion and notch-resistant

Norm references / Approvals

UL AWM Style 20234
cULus AWM I/II A/B, 1000V 80° FT1
UL File No. E63634
For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

Extra-fine wire strand made of bare copper wires (class 6)
Core insulation: polypropylene (PP)
Power cores symmetrically bundeled with counterrotating reduced protective conductor
Non-woven wrapping
Tinned-copper braiding
PUR outer sheath, anthracite grey (RAL 7016)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable
Core identification code:	Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D /L-; GN/YE protective conductor
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	Flexing: up from 10 x outer diameter Fixed installation: 5 x outer diameter

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Nominal voltage:	IEC U0/U: 600/1000 V UL & CSA: 1000 V
Test voltage:	Core/Core: 4 kV Core/Screen: 4 kV
Protective conductor:	G = with GN-YE protective conductor
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue
Temperature range:	Flexing: -40 °C to +90 °C (UL/CSA: +80 °C) Fixed installation: -50 °C to +90 °C (UL/CSA: +80 °C)

Note

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
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 mm² per conductor	Outer diameter (mm) approx.	Copper index (kg/km)	Weight (kg/km)
1023470	3 X 1,5 + 1 G 1	13.0	93.4	190
1023471	3 X 2,5 + 1 G 1,5	14.8	149.2	267
1023472	3 X 4 + 1 G 2,5	18.0	220	405
1023473	3 X 6 + 1 G 4	20.5	322.2	544
1023474	3 X 10 + 1 G 6	23.7	469.9	787
1023475	3 X 16 + 1 G 10	28.2	735.6	1188

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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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