

## ÖLFLEX® SERVO FD zeroCM

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

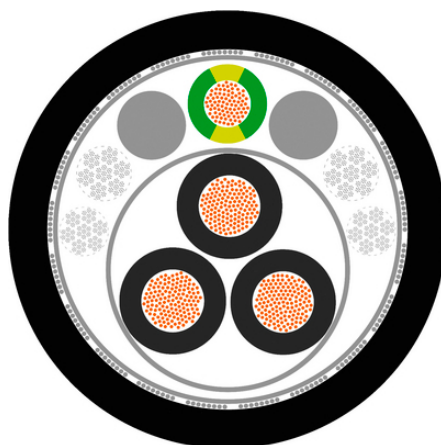
ÖLFLEX® SERVO zeroCM - symmetrical motor cable with improved EMC and simplified connection for power chain application in harsh conditions with UL/CSA AWM.

### Info

Core Line Performance - Medium to increased travel lengths or acceleration

Patented "zeroCM" CommonMode-Technology - 100% symmetry thanks to innovative cable design

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

Last Update (28.04.2024)

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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.

PN 0456 / 02\_03.16

## ÖLFLEX® SERVO FD zeroCM

Low capacitance bundle design with counterrotating protective conductor enables longer cable connection between frequency converter and motor and significantly simplifies 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 banded 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

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## ÖLFLEX® SERVO FD zeroCM

Nominal voltage:	Fixed installation: 5 x outer diameter 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
Temperature range:	Flexing: -40 °C to +90 °C (UL/CSA: +80 °C) Fixed installation: -50 °C to +90 °C (UL/CSA: +80 °C)
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue

### 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](http://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.

**ÖLFLEX® SERVO FD zeroCM**

Article number	Number of cores and mm <sup>2</sup> 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