



# ÖLFLEX® SERVO FD zeroCM – Electrically-symmetrical PUR motor cable

Innovative zeroCM® technology prevents EMC interference

Machines and systems are becoming increasingly networked. As a result, the issue of electromagnetic compatibility (EMC) is becoming more and more important. With our PUR motor cable with zeroCM® technology, your systems have peace and quiet from common-mode interference currents. The innovative zeroCM® technology from LAPP reliably reduces leakage currents and makes a decisive contribution to improved EMC in machines and systems. The new and patented cable design, a low-capacitance bundle construction with a protective conductor, achieves 100% electrical symmetry and improves electromagnetic compatibility.

#### Advantages:

- The zeroCM® technology with fully electrically symmetrical cable design has been proven to reduce leakage currents by up to 60 % compared to conventional motor cables.
- Fast and fault-free connection with only one instead of 3 protective conductors.
- Reduces EMC interference at the frequency converter and thus enables almost double the installation lengths.
- Future-proof for upcoming drive generations with higher clock frequencies.
- Long-life drag chain use for medium travel distances or increased accelerations (LAPP performance class „Core Line“).



Find out more:  
<https://products.lappgroup.com/artno=1023470>

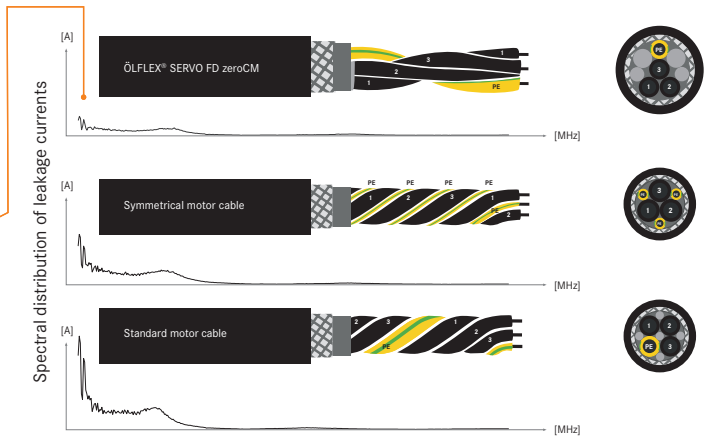


**U.I. Lapp GmbH**  
Schulze-Delitzsch-Straße 25 · 70565 Stuttgart  
Tel.: 0711 7838-01 · Fax: 0711 7838-2640  
[www.lappkabel.de](http://www.lappkabel.de) · [info@lappkabel.de](mailto:info@lappkabel.de)

# ÖLFLEX® SERVO FD zeroCM

Innovative and patented cable design achieves 100% electrical symmetry.

60 % reduced leakage currents compared to conventional cables\*



\*Test setup: 4 kW drive • 50 m cable length • 40 Hz rotational frequency

## First 100 % electrically-symmetrical motor cable with excellent electromagnetic compatibility

	Conventional motor cables		zeroCM® technology
	<b>Standard motor cable</b>	<b>Symmetrical motor cable</b>	<b>100 % electrically-symmetrical motor cable</b>
<b>Cable design</b>	4 conductors twisted together in one layer	3 phase conductors symmetrically twisted, PE symmetrically divided into 3 smaller cores	Low-capacitance bundle design with opposing protective conductor
<b>Single connection</b>	✓	-	✓
<b>Electrically symmetrical</b>	-	✓*	✓
<b>Greater cable lengths</b>	-	-	✓
<b>Reduction of leakage currents</b>	★	★★★	★★★★★

\* Only when all three PE conductors are connected at both ends

# ÖLFLEX® SERVO FD zeroCM



### Product description

- Core Line Performance - Medium to increased travel lengths or acceleration
- Patented zeroCM®-Technology - 100 % symmetry
- Reduced interference currents, improved EMC, simple connection



Article number	Number of cores and mm² per conductor	Outer diameter (mm) approx.
1023470	3 X 1,5 + (1 G 1)	13.0
1023471	3 X 2,5 + (1 G 1,5)	14.8
1023472	3 X 4 + (1 G 2,5)	18.0
1023473	3 X 6 + (1 G 4)	20.5
1023474	3 X 10 + (1 G 6)	23.7
1023475	3 X 16 + (1 G 10)	28.2