

# ÖLFLEX® SERVO 719 CY

Two become one



**LAPP GROUP**

# ÖLFLEX® SERVO 719 CY

The new ÖLFLEX® servo motor cable for static and occasional flexing use. Universal design combines the performance of two existing ÖLFLEX® servo cables. One product is all that is required to provide even better performance, whilst also reducing storage costs and the number of different parts you have to store.

When developing the ÖLFLEX® SERVO 719 CY, the new cable for connecting frequency converter and motor, Lapp combined the benefits of the tried-and-tested product lines ÖLFLEX® SERVO 700 CY and ÖLFLEX® SERVO 709 CY in the specifications and improved these further. The new product, designed for fixed installation and occasional flexing, will in future replace both of these predecessor products and now offers all the existing features users love, along with some new ones, in a single product line:

- Voltage class U<sub>0</sub>/U 0,6/1 kV (VDE) or 1000 V (UL) for power and control cores
- Modified core insulation creates low-capacitance design
- Flame-retardant and oil-resistant PVC sheath in DESINA® orange for screened power cables
- North American UL and cUL AWM certification (USA and Canada) for export-focused machinery manufacturers

One particularly noteworthy feature is the modified core insulation, which enables larger cable lengths through lower capacity values, reduces leakage current and has higher dielectric strength. The new product also offers a thinner outer diameter compared to the existing UL/cUL-certified ÖLFLEX® SERVO 709 CY version, saving additional space and weight.

This streamlining of the product range has further advantages. Previously, due to different core or pair versions or to conform with norms in North America, users often had to order two or three different cable products, record these for logistics purposes and store them. Now, with ÖLFLEX® SERVO 719 CY, an inventory record and storage space is only required for one product. This saves lots of time, storage space and costs.

The ÖLFLEX® SERVO 719 CY comes in a range of sizes to cover various well-known

drive system manufacturers according to requirements, as well as 4-core motor cables and servo cables with separately screened 1 or 2-pair control/signal current circuits for monitoring temperatures in the motor winding or for connecting the brake.

Further product data and ordering information: [www.lappgroup.com](http://www.lappgroup.com)

## Recoding the discontinued line to the new ÖLFLEX® SERVO 719 CY

Discontinued product ÖLFLEX® SERVO 700 CY				Discontinued product ÖLFLEX® SERVO 709 CY				New product ÖLFLEX® SERVO 719 CY			
Article number	Power cores	Control pairs	OD mm	Article number	Power cores	Control pairs	OD mm	Article number new	Power cores	Control pair(s)	OD mm
				0038010	4 G 1.5		9.9	1020010	4 G 1.5		8.4
				0038011	4 G 2.5		11.8	1020011	4 G 2.5		9.9
				0038012	4 G 4		13.8	1020012	4 G 4		11.7
				0038013	4 G 6		15.3	1020013	4 G 6		13.7
				0038014	4 G 10		19.5	1020014	4 G 10		16.7
				0038015	4 G 16		23.4	1020015	4 G 16		20.1
				0038016	4 G 25		27.5	1020016	4 G 25		24.3
				0038017	4 G 35		30.9	1020017	4 G 35		27.7
				0038018	4 G 50		38.5	1020018	4 G 50		33.7
								1020019	4 G 1.5	(2x1.5)	11.5
								1020020	4 G 2.5	(2x1.5)	12.9
								1020021	4 G 4	(2x1.5)	15.0
								1020022	4 G 6	(2x1.5)	17.0
								1020023	4 G 10	(2x1.5)	19.5
0036156	4 G 0.75	2x(2x0.34)	10.5	0038019	4 G 0.75	2x(2x0.34)	12.4	1020024	4 G 0.75	2x(2x0.34)	9.7
0036157	4 G 1.5	2x(2x0.75)	12.7	0038021	4 G 1.5	2x(2x0.75)	14.8	1020025	4 G 1.5	2x(2x0.75)	12.3
0036158	4 G 2.5	(2x2x0.75)	14.9	0038022	4 G 2.5	2x(2x1.0)	16.3	1020026	4 G 2.5	2x(2x1.0)	14.7
0036159	4 G 4	(2x0.75+2x1.0)	16.6					1020027	4 G 4	2x(2x1.0)	16.4
				0038023	4 G 4	(2x1.0+2x1.5)	16.7	1020028	4 G 4	(2x1.0)+(2x1.5)	16.6
0036161	4 G 6	(2x0.75+2x1.0)	17.7	0038024	4 G 6	(2x1.0+2x1.5)	19.2	1020029	4 G 6	(2x1.0)+(2x1.5)	18.5
0036162	4 G 10	(2x0.75+2x1.0)	21.6	0038025	4 G 10	(2x1.0+2x1.5)	22.5	1020030	4 G 10	(2x1.0)+(2x1.5)	22.1
0036163	4 G 16	(2x2x1.0)	24.5	0038026	4 G 16	(2x1.0+2x1.5)	25.5	1020031	4 G 16	2x(2x1.5)	25.0
0036164	4 G 25	(2x2x1.5)	30.1	0038027	4 G 25	(2x2x1.5)	30.6	1020032	4 G 25	2x(2x1.5)	28.7

Following ÖLFLEX® SERVO 709 CY articles have been removed from the catalogue range: 0038020 4G1.0+(2x(2x0.75)); 0038028 4G35+(2x2x1.5); 0038029 4G50+(2x2x2.5)

# ÖLFLEX® SERVO 719 CY

New

SCREENED SERVO CABLE – APPROVED FOR NORTH AMERICA



## Benefits

- Substitutes the two ÖLFLEX® SERVO product lines 700 CY and 709 CY
- Multi-standard approval reduces part varieties and saves costs
- Suitable for servo motor systems of well-known drive manufacturers
- Longer cable installation lengths thanks to low mutual capacitance

## Application range

- Connecting cable between servo controller and motor
- For fixed installation and occasionally flexible use
- Plant engineering
- Machine tools
- Printing machines

## Product features

- Low capacitance
- Flame retardancy: UL/CSA: VW-1, FT1 IEC/EN: 60332-1-2
- Oil-resistant

## Norm references/Approvals

- USA: UL AWM Style 2570
- Canada: cUL AWM Style I/II A/B FT1
- UL File No. E63634

## Product make-up

- Fine-wire strand made of bare copper wires
- Core insulation: polypropylene (PP)
- Individual design depending on the item: power cores with or without one or two individually screened control core pairs twisted together in short lay lengths
- Tinned copper screen braiding
- PVC outer sheath, orange (RAL 2003)

## Info

- Substitutes versions SERVO 700 CY/709 CY
- Low-capacitance design
- EMC-compliant

## Technical data

	<b>Classification</b> ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
	<b>Core identification code</b> Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D/L-; GN/YE protective conductor Single-paired versions: black; white Double-paired versions: black with white numbers 5; 6; 7; 8 0,34 mm <sup>2</sup> pairs: WH/BN/GN/YE
	<b>Conductor stranding</b> Fine wire according to VDE 0295 Class 5/IEC 60228 Class 5
	<b>Minimum bending radius</b> Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter
	<b>Nominal voltage</b> VDE: power cores and control cores: U <sub>0</sub> /U: 600/1000 V UL & CSA: 1000 V
	<b>Test voltage</b> Core/Core: 4 kV Core/Screen: 4 kV
	<b>Protective conductor</b> G = with GN-YE protective conductor
	<b>Temperature range</b> Occasional flexing: -5°C to +70°C (UL: +80°C) Fixed installation: -40°C to +80°C

## Accessories

- EPIC® CIRCON LS1
- SKINTOP® MS-M BRUSH

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® SERVO 719 CY</b>				
1020010	4 G 1.5	8.4	83.0	130
1020011	4 G 2.5	9.9	125.0	190
1020012	4 G 4	11.7	191.0	273
1020013	4 G 6	13.7	290.0	394
1020014	4 G 10	16.7	452.0	581
1020015	4 G 16	20.1	721.0	884
1020016	4 G 25	24.3	1.100.0	1348
1020017	4 G 35	27.7	1.548.0	1840
1020018	4 G 50	33.7	2.151.0	2645
1020019	4 G 1.5 + (2 x 1.5)	11.5	146.0	242
1020020	4 G 2.5 + (2 x 1.5)	12.9	189.0	306
1020021	4 G 4 + (2 x 1.5)	15.0	271.0	420
1020022	4 G 6 + (2 x 1.5)	17.0	351.0	529
1020023	4 G 10 + (2 x 1.5)	19.5	540.0	752
1020024	4 G 0.75 + 2 x (2 x 0.34)	9.7	99.0	163
1020025	4 G 1.5 + 2 x (2 x 0.75)	12.3	150.0	245
1020026	4 G 2.5 + 2 x (2 x 1.0)	14.7	223.0	357
1020027	4 G 4 + 2 x (2 x 1.0)	16.4	288.0	452
1020028	4 G 4 + (2 x 1.0) + (2 x 1.5)	16.6	307.0	469
1020029	4 G 6 + (2 x 1.0) + (2 x 1.5)	18.5	421.0	617
1020030	4 G 10 + (2 x 1.0) + (2 x 1.5)	22.1	588.0	852
1020031	4 G 16 + 2 x (2 x 1.5)	25.0	876.0	1162
1020032	4 G 25 + 2 x (2 x 1.5)	28.7	1.227.0	1590

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 the current main 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). Photographs are not to scale and do not represent detailed images of the respective products.

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