

# ÖLFLEX® SERVO 719/719 CY

Flexible servo cable for stationary applications; unshielded & shielded



LAPP KABEL STUTTGART ÖLFLEX® SERVO 719

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ÖLFLEX® SERVO 719/719 CY is a flexible, low-capacitance, oil resistant servo cable which is suitable for servo motor systems of well-known drive manufacturers. It is available with signal pairs for brake and temperature monitoring requirements. ÖLFLEX® SERVO 719 CY is a shielded version for EMI and RFI protection.

## Recommended applications

Power drive systems in automation engineering; connecting cable between servo controller and motor assemblies; pick & place machinery; machine tools; transfer lines; fixed or stationary applications

## Approvals



Cable attributes		page 648	
OIL	OR-02	FLAME	FR-02
MOTION	FL-02	MECH.	MP-02

## Unshielded construction

**Conductors:** finely stranded bare copper

**Insulation:** polypropylene

**Pairs:** individually shielded control pairs, twisted together

**Jacket:** specially formulated PVC; black

## Shielded construction

**Conductors:** finely stranded bare copper

**Insulation:** polypropylene

**Pairs:** individually shielded control pairs, twisted together

**Shielding:** tinned copper braid (85% coverage)

**Jacket:** specially formulated PVC; orange

## Application advantage

- Replaces ÖLFLEX® SERVO 700 CY and 709 CY servo cables
- Multi-standard approval reduces part numbers and cost
- Longer cable installation lengths due to low capacitance design

## Complete the installation



EPIC®  
POWER LS1  
page 441

## Technical data

### Minimum bend radius:

- for flexible use: 15 x cable diameter
- for stationary use: 6 x cable diameter

### Temperature range:

- for flexible use: -5°C to +80°C
- for stationary use: -40°C to +80°C

### Nominal voltage:

- UL/CSA: 1000V
- IEC U<sub>0</sub>/U: 600/1000V

### Test voltage:

4000V

### Conductor stranding:

Class 5 fine wire

### Color code:

- power conductors: black with white letters:  
U/L1/C/L+; V/L2; W/L3/D/L-  
plus green/yellow ground
- 1 pair: black & white
- 2 pair: black with white numbers: 5, 6, 7, 8
- 22 AWG pairs: white/brown, green/yellow

### Approvals:

UL: AWM 2570  
Attributes: NFPA 79  
Canada: cRU AWM I/II A/B FT1  
Additional: CE & RoHS

ÖLFLEX® SERVO 719

Part number	Conductor description power conductors + control pairs		Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	EPIC® POWER LS1* configuration	
			in	mm				
<b>Power conductors + 1 control pair</b>								
1020060	16 AWG/4c	+	(19 AWG/1pr)	0.378	9.7	56	119	3+PE+4
1020065	16 AWG/4c	+	(16 AWG/1pr)	0.421	10.8	73	144	3+PE+4
1020061	16 AWG/5c	+	(19 AWG/1pr)	0.413	10.6	66	136	3+PE+4
1020062	16 AWG/7c	+	(19 AWG/1pr)	0.449	11.5	85	162	3+PE+4
1020063	14 AWG/4c	+	(19 AWG/1pr)	0.433	11.1	82	160	3+PE+4
1020066	14 AWG/4c	+	(16 AWG/1pr)	0.476	12.2	99	185	3+PE+4
1020064	14 AWG/7c	+	(19 AWG/1pr)	0.495	12.7	130	218	3+PE+4
1020067	12 AWG/4c	+	(16 AWG/1pr)	0.542	13.9	137	242	3+PE+4
1020068	10 AWG/4c	+	(16 AWG/1pr)	0.628	16.1	189	321	—
1020069	8 AWG/4c	+	(16 AWG/1pr)	0.710	18.2	292	439	—
<b>Power conductors + 2 control pairs</b>								
1020071	19 AWG/4c	+	2 x (22 AWG/1pr)	0.351	9.0	42	81	3+PE+4
1020072	16 AWG/4c	+	2 x (19 AWG/1pr)	0.452	11.6	75	136	3+PE+4
1020073	14 AWG/4c	+	2 x (18 AWG/1pr)	0.530	13.6	108	192	3+PE+4
1020074	12 AWG/4c	+	2 x (18 AWG/1pr)	0.597	15.3	146	253	3+PE+4
1020075	12 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.605	15.5	160	266	3+PE+4
1020076	10 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.679	17.4	211	344	—

( ) = shielded

\* Check connection on motor prior to selecting EPIC® POWER LS1 connector type

ÖLFLEX® SERVO 719 CY

Part number	Conductor description power conductors + control pairs		Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	EPIC® POWER LS1* configuration	
			in	mm				
<b>4 power conductors + 0 control pairs</b>								
1020010	16 AWG/4c	—		0.331	8.4	56	87	5+PE
1020011	14 AWG/4c	—		0.390	9.9	84	128	5+PE
1020012	12 AWG/4c	—		0.461	11.7	128	183	5+PE
1020013	10 AWG/4c	—		0.540	13.7	195	265	—
1020014	8 AWG/4c	—		0.658	16.7	304	390	—
1020015	6 AWG/4c	—		0.792	20.1	485	594	—
1020016	4 AWG/4c	—		0.957	24.3	739	906	—
1020017	2 AWG/4c	—		1.091	27.7	1040	1236	—
1020018	1 AWG/4c	—		1.328	33.7	1445	1777	—
<b>4 power conductors + 1 control pair</b>								
1020019	16 AWG/4c	+	(16 AWG/1pr)	0.453	11.5	98	163	3+PE+4
1020020	14 AWG/4c	+	(16 AWG/1pr)	0.508	12.9	127	206	3+PE+4
1020021	12 AWG/4c	+	(16 AWG/1pr)	0.591	15.0	182	282	3+PE+4
1020022	10 AWG/4c	+	(16 AWG/1pr)	0.670	17.0	236	355	—
1020023	8 AWG/4c	+	(16 AWG/1pr)	0.768	19.5	363	505	—
<b>4 power conductors + 2 control pairs</b>								
1020024	19 AWG/4c	+	2 x (22 AWG/1pr)	0.382	9.7	67	110	3+PE+4
1020025	16 AWG/4c	+	2 x (19 AWG/1pr)	0.485	12.3	101	165	3+PE+4
1020026	14 AWG/4c	+	2 x (18 AWG/1pr)	0.579	14.7	150	240	3+PE+4
1020027	12 AWG/4c	+	2 x (18 AWG/1pr)	0.646	16.4	194	304	3+PE+4
1020028	12 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.654	16.6	206	315	3+PE+4
1020029	10 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.729	18.5	283	415	—
1020030	8 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.871	22.1	395	573	—
1020031	6 AWG/4c	+	2 x (16 AWG/1pr)	0.985	25.0	589	781	—
1020032	4 AWG/4c	+	2 x (16 AWG/1pr)	1.131	28.7	825	1068	—

( ) = shielded

\* Check connection on motor prior to selecting EPIC® POWER LS1 connector type

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values.