

ÖLFLEX® SERVO 719/719 CY

Flexible servo cable for stationary applications; unshielded & shielded



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	Color code:	- power conductors: black with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground black & white - 1 pair: - 2 pair: - 22 AWG pairs: black with white numbers: 5, 6, 7, 8 white/brown, green/yellow
Temperature range:	- for flexible use: -5°C to +80°C - for stationary use: -40°C to +80°C	Approvals:	UL: AWM 2570 Attributes: NFPA 79 Canada: cRU AWM I/II A/B FT1 Additional: CE & RoHS
Nominal voltage:	- UL/CSA: 1000V - IEC U ₀ /U: 600/1000V	Test voltage:	4000V
Conductor stranding:	Class 5 fine wire		

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

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				
Power conductors + 1 control pair								
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	—
Power conductors + 2 control pairs								
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				
4 power conductors + 0 control pairs								
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	—
4 power conductors + 1 control pair								
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	—
4 power conductors + 2 control pairs								
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.