ÖLFLEX® SERVO 709 CY

Flexible Power Supply & Signal Cable for Stationary Applications with North American Approvals

LAPP KABEL STUTTGART ÖLFLEX® SERVO 709 CY

ÖLFLEX® SERVO 709 CY is a highly flexible and oil-resistant servo cable with both power and signal conductors. It has individually shielded pairs and an overall shield.

Recommended Applications

Motor connections between servo controllers and motors on industrial machinery; automation equipment; machine tools; food & beverage; packaging

Approvals

Construction

Conductors: Finely stranded bare copper

Insulation: PVC

Shield: Pairs: laminated aluminum film and tinned copper wire; overall tinned copper braid (85% coverage)

Jacket: Specially formulated PVC; orange

Application Advantage

- UL & cRU AWM
- Individually shielded pairs and overall shield
- Orange oil-resistant jacket for industrial applications and motor identification
- Flame retardant
- Rated 1000V

Cable Attributes, see page 659

 OR-03	 FR-02	 FL-01	 MP-02
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ÖLFLEX® SERVO FD 796 CP
- Servo Cables: INDRAMAT® Standard INK

Complete the Installation

SKINTOP® MS-SC: page 528

SKINTOP® MS-M BRUSH: page 530

Technical Data

Minimum Bend Radius: 6 x cable diameter

Temperature Range: -40°C to +90°C

Nominal Voltage:
- UL/CSA: 1000V
- IEC U_0/U: 600/1000V

Test Voltage:
- Power: 4000V
- Control:
  - Conductor/conductor: 4000V
  - Conductor/shield: 3000V

Conductor Stranding: Class 5 fine wire

Color Code:
- Power conductors: Black with white numbers: 1, 2, 3, plus green/yellow ground
- Control pairs:
  - 22 AWG pairs: White/brown & green/yellow ground
  - > 20 AWG pairs: Black with white numbers: 5/6, 7/8
  - 18 AWG: Black with white numbers: 5/6
  - 16 AWG: Black with white numbers: 7/8

Approvals:
- UL: AWM 20886
- Attributes: VW-1, Flame Retardant
- Canada: cRU AWM I/II A/B FT1
- Additional: Based on VDE 0245, 0250, 0281, CE & RoHS

Part Number	Size / Number of Conductors: Power Conductors + Signal Pairs	Nominal Outer Diameter (inches)	Nominal Outer Diameter (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	SKINTOP® MS-M BRUSH Metric Thread
4 Power Conductors + 0 Signal Pairs							
0038010	16 AWG/4c + –	0.390	9.9	60	116	53112230	53112676
0038011	14 AWG/4c + –	0.465	11.8	90	168	53112230	53112676
0038012	12 AWG/4c + –	0.544	13.8	146	247	53112240	53112676
0038013	10 AWG/4c + –	0.603	15.3	199	321	53112250	53112676
0038014	8 AWG/4c + –	0.768	19.5	330	525	53112260	53112677
0038015	6 AWG/4c + –	0.922	23.4	499	805	53112260	53117678
0038016	4 AWG/4c + –	1.084	27.5	749	1163	53112270	53117678
0038017	2 AWG/4c + –	1.217	30.9	1023	1535	53112270	53117679
0038018	1 AWG/4c + –	1.517	38.5	1474	2280	–	53117680
4 Power Conductors + 2 Signal Pairs							
0038019	19 AWG/4c + 2 x (22 AWG/1pr)	0.489	12.4	65	151	53112240	53112676
0038020	18 AWG/4c + 2 x (19 AWG/1pr)	0.536	13.6	100	199	53112240	53112676
0038021	16 AWG/4c + 2 x (19 AWG/1pr)	0.583	14.8	114	230	53112250	53112676
0038022	14 AWG/4c + 2 x (18 AWG/1pr)	0.642	16.3	160	282	53112250	53112676
0038023	12 AWG/4c + (18 AWG/1pr + 16 AWG/1pr)	0.658	16.7	213	361	53112250	53112676
0038024	10 AWG/4c + (18 AWG/1pr + 16 AWG/1pr)	0.756	19.2	286	473	53112260	53112677
0038025	8 AWG/4c + (18 AWG/1pr + 16 AWG/1pr)	0.887	22.5	403	648	53112260	53112678
0038026	6 AWG/4c + (18 AWG/1pr + 16 AWG/1pr)	1.005	25.5	587	927	53112270	53112678
0038027	4 AWG/4c + (16 AWG/2pr)	1.206	30.6	850	1313	53112270	53112679
0038028	2 AWG/4c + (16 AWG/2pr)	1.316	33.4	1115	1723	–	53112679
0038029	1 AWG/4c + (14 AWG/2pr)	1.615	41.0	1579	2544	–	53112680

( ) = shielded pairs

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.