

Servo applications

PVC sheath, approved



# ÖLFLEX® SERVO 9YSLCY-JB

EMC-optimised motor cable, low-capacitance, double-screened, approved



**Benefits**

- Allows EN 61800-3-compliant, EMC-compliant installation of power drive systems
- For very large power drive systems
- EN/VDE 90 °C PP insulation

**Application range**

- Connecting cable between frequency converter and motor
- Paper industry
- Chemical industry
- Heavy industry

**Product features**

- Low capacitance design allows a longer cable connection between the frequency converter and the motor
- In dry, damp or wet interiors
- 9YSLCY black design: also for outdoor applications, as well as buried underground, but not for USA or Canada
- Flame-retardant according to IEC 60332-1-2 & CSA FT1

**Norm references / Approvals**

- UL reg. for the USA: AWM Style 2570 or 20886, 1 kV 80° VW-1
- UL reg. for CAN. AWM I/II A/B 1 kV 80° FT 1
- EU: based on VDE 0276, 0250, 0207
- UL File Nr. E63634

**Product make-up**

- Fine-wire strand made of bare copper wires
- Core insulation: polypropylene (PP)
- Cores twisted concentrically (in protective conductors divided into three, this is between the gussets)
- Aluminium foil wrapped over the cores
- Screening: wrapped with braided tinned-copper wires
- 4-core design: transparent PVC outer sheath
- 3+3 core version: black PVC outer sheath, for outdoor use and direct burial

**Info**

- EMC-optimised
- 3+3 symmetry reduces common-mode interference effects

**Technical data**

**Classification**  
ETIM 5.0 Class-ID: EC000057  
ETIM 5.0 Class-Description: Low voltage power cable

**Core identification code**  
Colours according to HD 308 S2  
VDE 0293-308

**Specific insulation resistance**  
> 20 GOhm x cm

**Conductor stranding**  
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5

**Minimum bending radius**  
Occasional flexing: 15 x outer diameter  
Fixed installation: 4 x outer diameter

**Nominal voltage**  
IEC U<sub>0</sub>/U: 600/1000 V  
UL & CSA: 1000 V

**Test voltage**  
4000 V

**Protective conductor**  
This is distributed evenly in the gussets in protective conductors that are divided into three

**Temperature range**  
Flexing UL/CSA: -5 °C to +80 °C;  
IEC: transparent model: -5 °C to +70 °C;  
black model: -5 °C to +90 °C  
Fixed installation:  
UL/CSA: -40°C to +80°C;  
IEC: transparent model: -40°C to +80°C;  
black model: -40°C to +90°C

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 9YSLCY-JB</b>				
0037000	4 G 1,5	10,5	87,0	230
0037001	4 G 2,5	11,8	133,0	300
0037002	4 G 4	13,3	213,0	485
0037003	4 G 6	14,9	298,0	630
0037004	4 G 10	17,7	460,0	860
0037005	4 G 16	21,5	707,0	1290
0037006	4 G 25	26,3	1,100,0	1860
0037007	4 G 35	29,7	1,542,0	2610
0037008	4 G 50	34,1	2,206,0	2950
0037009	4 G 70	40,9	3,002,0	3950
0037010	4 G 95	45,4	4,004,0	5300
0037011	4 G 120	49,8	5,108,0	6600
0037012	4 G 150	56,1	6,225,0	7043
0037013	4 G 185	61,4	7,568,0	8384
0037014	4 G 240	67,9	9,940,0	12150
0037015	3 X 1,5 + 3 G 0,25	11,4	88,0	140
0037016	3 X 2,5 + 3 G 0,5	12,9	130,0	220
0037017	3 X 4 + 3 G 0,75	13,6	224,0	323
0037018	3 X 6 + 3 G 1,0	15,2	276,0	420
0037019	3 X 10 + 3 G 1,5	17,4	511,0	615
0037020	3 X 16 + 3 G 2,5	20,0	751,0	819
0037021	3 X 25 + 3 G 4	24,3	1,204,0	1325
0037022	3 X 35 + 3 G 6	27,5	1,535,0	1718
0037023	3 X 50 + 3 G 10	31,1	2,156,0	2399
0037024	3 X 70 + 3 G 10	37,1	2,980,0	3056
0037025	3 X 95 + 3 G 16	40,0	3,953,0	4162
0037026	3 X 120 + 3 G 16	42,6	4,836,0	5074
0037027	3 X 150 + 3 G 25	50,0	5,412,0	6128
0037028	3 X 185 + 3 G 35	55,6	7,077,0	7820

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. Refer to 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)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs are not to scale and do not represent detailed images of the respective products.

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 ACCESSORIES  
 APPENDIX