

Servo applications



ÖLFLEX® SERVO 2XSLCH-JB

EMC-optimised motor cable, low-capacitance, double screened and halogen-free with improved fire behaviour



Info

- Halogen-free and highly flame-retardant
- 3+3 symmetry reduces common-mode interference effects and bearing currents
- CPR: Article number choice under www.lappkabel.com/cpr

Benefits

- EMC-compliant installation of power drive systems conforming to EN 61800-3
- High power transmission for large drives
- Low capacitance design enables longer cable connection between frequency converter and motor
- Symmetrical 3+3 Version supports the reduction of damaging bearing currents
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire

Application range

- Connecting cable between frequency converter and motor
- In dry, damp or wet interiors
- Paper industry, automotive industry
- Food production and packaging machinery
- Machine tools

Product features

- Low-capacitance design
- Fire behaviour:
 - Flame-retardant (IEC 60332-1-2)
 - Halogen-free (IEC 60754-1)
 - No corrosive gases (IEC 60754-2)
 - Low smoke density (IEC 61034-2)
 - Low toxicity (EN 50305)
- No flame-propagation according to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)

Norm references / Approvals

- Based on VDE 0276, 0250, 0207

Product Make-up

- Fine-wire, bare copper conductor
- Core insulation: XLPE
- Cores twisted concentrically (symmetrically splitted protective conductor of 3+3 version is gusset-filling divided between the power cores)
- Screening: wrapping of laminated aluminium foil in combination with tinned copper braiding
- Outer sheath: Halogen-free special compound, colour black (RAL 9005)

Technical data

- Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000057
ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**
Colours according to HD 308 S2
VDE 0293-308
- 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**
U0/U: 600/1000 V
- Test voltage**
Core/Core: 4 kV
Core/Screen: 4 kV
- Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor
Protective conductor of 3+3 version is gusset-filling divided between power cores
- Temperature range**
Flexing: -15°C to +90°C
Fixed installation: -40°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO 2XSLCH-JB / 4-core version				
1133500	4 G1.5	10,9	95	230
1133501	4 G2.5	12,0	150	300
1133502	4 G4.0	14,5	235	485
1133503	4 G6.0	16,0	320	630
1133504	4 G10.0	18,4	533	860
1133505	4 G16.0	21,0	789	1290
1133506	4 G25.0	25,9	1236	1860
1133507	4 G35.0	29,3	1662	2610
1133508	4 G50.0	34,5	2345	2950
1133509	4 G70.0	38,2	3196	3950
1133510	4 G95.0	43,0	4316	5300
1133511	4 G120.0	47,8	5435	6600
1133512	4 G150.0	55,7	6394	7043
1133513	4 G185.0	60,3	7639	8384

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO 2XSLCH-JB / 3+3 core version				
1133514	3 X 1,5 + 3 G 0,25	11,4	88	140
1133515	3 X 2,5 + 3 G 0,5	12,4	144	220
1133516	3 X 4 + 3 G 0,75	13,9	224	323
1133517	3 X 6 + 3 G 1	15,2	276	420
1133518	3 X 10 + 3 G 1,5	17,2	491	615
1133519	3 X 16 + 3 G 2,5	20,7	723	819
1133520	3 X 25 + 3 G 4	23,8	1136	1325
1133521	3 X 35 + 3 G 6	26,9	1535	1718
1133522	3 X 50 + 3 G 10	31,8	2156	2399
1133523	3 X 70 + 3 G 10	34,6	2871	3056
1133524	3 X 95 + 3 G 16	38,5	3953	4162
1133525	3 X 120 + 3 G 16	42,7	4836	5074
1133526	3 X 150 + 3 G 25	47,8	5412	6128
1133527	3 X 185 + 3 G 35	52,6	7041	7500
1133528	3 X 240 + 3 G 50	61,9	8986	9770

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 catalogue appendix T17 for the definition and calculation of copper-related surcharges.
 Please find our standard lengths at: 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 and graphics are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® SERVO 9YSLCY-JB refer to page 109
- ÖLFLEX® SERVO 2YSLCY-JB refer to page 108

Accessories

- SKINTOP® BRUSH ADD-ON refer to page 694
- SKINTOP® MS-SC-M refer to page 695
- SKINTOP® MS-M BRUSH refer to page 696

ÖLFLEX®
 UNITRONIC®
 ETHERLINE®
 HITRONIC®
 EPIC®
 SKINTOP®
 SILVYN®
 FLEXIMARK®
 ACCESSORIES
 APPENDIX