0036425	DATA SHEET	
valid from: 17.04.2026	ÖLFLEX® SERVO 2YSLCY-JB	

Application

ÖLFLEX® SERVO 2YSLCY-JB are double shielded low capac-itance cables of flexible design, with PVC sheath and PE core insulation. They are suitable for frequency converters operated by three-phase current motors. They are also suitable for use in dry, damp or wet areas. They are largely resistant to acids, alkalis and certain oils at room temperature.
They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. The screening braid protects against interference from electrical fields.

Application range:
Connection cable between frequency converter and motor, paper industry, chemical industry, heavy industry

Design

Design	based on DIN VDE 0276-603 / HD 603 S1 + A3 DIN 57250-1 resp. VDE 0250-1
Certification	EN 13501-6 and EN 50575 Classification of fire behaviour (article/dimension range see www.lappkabel.com/cpr)
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	PE compound acc. to EN 50290-2-23, table 1, column LD/MD
Core identification code	acc. to HD 308 S2 resp. VDE 0293-308
Cable assembly	4 cores twisted together in one layer
Screen	double screening with aluminium-coated plastic foil (metal-side outwards) and braid of tinned copper wires, braid coverage min. 70% (nominal value)
Outer sheath	PVC sheath TM2 acc. to EN 50363-4-1 colour: transparent

Electrical properties at 20 °C

Specific volume resistivity	> 20 G Ω x cm
Transfer impedance	max. 250 Ω/km (at 30 MHz)
Nominal voltage	U_0/U: 600/1000 V
Test voltage	core/core: 4000 V core/screen: 4000 V

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temperature fixed installation: -40 °C up to +70 °C max. conductor temperature
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35 EU (Low Voltage Directive). A part of these cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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Part number	Dimension	Conductor design: approx. number x wire diameter [mm]	Core identification code	Copper braid: max. wire diameter [mm]	Copper braid: nom. cross section [mm²]	Outer diameter (nominal) [mm]	Current ratings at 30°C [A]	Inductance per core at 800 Hz [µH/km]	Capacitance core/core at 800 Hz [nF/km]	Capacitance core/screen at 800 Hz [nF/km]	Transfer impedance at 1 MHz [Ω/km]	Transfer impedance at 10 MHz [Ω/km]	Transfer impedance at 30 MHz [Ω/km]
0036425	4G1.5	29x0.25	GNYE, BN, BK, GY	0.21	2.5	11.4	18	366	70	110	-	-	240
0036426	4G2.5	50x0.25	GNYE, BN, BK, GY	0.21	4	12.4	26	340	80	130	18	175	210
0036427	4G4	54x0.3	GNYE, BN, BK, GY	0.21	4	15.6	34	339	90	150	11	95	210
0036428	4G6	82x0.3	GNYE, BN, BK, GY	0.21	6	17.0	44	321	90	150	6	50	150
0036429	4G10	78x0.4	GNYE, BN, BK, GY	0.26	6	19.6	61	301	120	200	7	60	180
0036430	4G16	126x0.4	GNYE, BN, BK, GY	0.26	6	22.1	82	285	140	230	9	80	190
0036431	4G25	196x0.4	GNYE, BN, BK, GY	0.26	16	26.3	108	280	140	240	4	32	95
0036432	4G35	276x0.4	GNYE, BN, BK, GY	0.31	16	29.5	135	271	150	260	3	26	85
0036433	4G50	396x0.4	GNYE, BN, BK, GY	0.31	16	35.8	168	270	190	320	2	13	40
0036434	4G70	532x0.4	GNYE, BN, BK, GY	0.31	16	40.3	207	262	190	320	2	18	45
0036435	4G95	722x0.4	GNYE, BN, BK, GY	0.31	25	46.5	250	261	250	410	2	18	45
0036436	4G120	931x0.4	GNYE, BN, BK, GY	0.31	25	53.2	292	256	260	430	2	18	45
0036437	4G150	1160x0.4	GNYE, BN, BK, GY	0.41	35	57.3	335	256	270	450	2	18	45
0036438	4G185	1420x0.4	GNYE, BN, BK, GY	0.41	35	62.3	382	255	280	470	2	18	45
0036452	4G240	1920x0.4	GNYE, BN, BK, GY	0.41	35	72.3	453	254	290	480	2	18	45

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