


U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® CLASSIC 100	12.09.2012

Space-saving installation due to small cable diameters
High electrical performance due to 4 kV test voltage
High flexibility due to short-twisted conductor layers



Info

Up to 1.5 mm²: Nominal voltage U₀/U: 300/500V From 2,5mm²: Nominal voltage U₀/U: 450/750V
Customised colour option and printing on the outer sheath are available upon request

Application range

Plant engineering Industrial machinery Heating and air-conditioning systems Power stations
Dry or damp rooms that are subject to medium mechanical loads
For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load
Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Design

Fine-wire strand made of bare copper wires
PVC insulation LAPP P8/1
Cores twisted in layers
PVC outer sheath, grey (RAL 7001)


Product features

Flame-retardant according to IEC 60332-1-2
Good chemical resistance see Appendix T1

Remark

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 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).
Single lengths for sizes: ≥ 5G50 max. 500 m; ≥ 5G95 max. 400; ≥ 3G120 max. 500 m; ≥ 4G120 max. 300; ≥ 4G185 max. 250 m
Photographs are not to scale and do not represent detailed images of the respective products.

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Technical Data

Core identification code:	Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: ÖLFLEX® colour code, refer to Appendix T7
Based on:	IEC 60227-5 HD 21.5 S3 VDE 0281 Part 5 HD 21.13 S1 VDE 0281 Part 13
Specific insulation resistance:	> 20 GOhm x cm
Conductor stranding:	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Torsion movement in WTG:	TW-0 & TW-1 refer to catalogue, Appendix T0
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	Up to 1.5 mm ² : U ₀ /U: 300/500 V From 2.5 mm ² : U ₀ /U: 450/750 V From 2.5 mm ² , in the case of fixed and protected installations: U ₀ /U: 600/1000 V
Test voltage:	4000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Occasional flexing: -5 °C to +70 °C Fixed installation: -40 °C to +80 °C

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLASSIC 100; U ₀ /U: 300/500 V				
00100004	2 X 0,5	4,8	9.6	35
00100014	3 G 0,5	5,1	14.4	42
00101224	3 X 0,5	5,1	14.4	42
00100024	4 G 0,5	5,7	19.2	54
00101234	4 X 0,5	5,7	19.2	54
00100034	5 G 0,5	6,2	24.0	63
00101244	5 X 0,5	6,2	24.0	63
0010004	6 G 0,5	6,7	28.8	73
0010005	7 G 0,5	6,7	33.6	81
0010006	8 G 0,5	8.0	38.4	97
0010007	10 G 0,5	8,6	48.0	116
0010008	12 G 0,5	8,9	58.0	133
0010009	14 G 0,5	9,5	67.0	151
0010010	16 G 0,5	10.0	76.0	169
0010011	21 G 0,5	11,7	99.0	223
0010012	24 G 0,5	12,4	114.0	254
0010016	40 G 0,5	15,4	192.0	404
00100214	2 X 0,75	5,4	14.4	45
00100224	3 G 0,75	5,7	21.6	55
00101254	3 X 0,75	5,7	21.6	55
00100234	4 G 0,75	6,2	28.8	66
00101264	4 X 0,75	6,2	28.8	66
00100244	5 G 0,75	6,7	36.0	79
00101274	5 X 0,75	6,7	36.0	79
0010025	6 G 0,75	7,3	43.3	104
0010026	7 G 0,75	7,3	50.4	109
0010027	8 G 0,75	8,8	56.0	123
0010028	9 G 0,75	9,4	63.0	144
0010029	10 G 0,75	9,6	72.0	153
0010030	12 G 0,75	9,9	86.4	176
0010031	15 G 0,75	10,9	108.0	211

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0010032	18 G 0,75	11,7	129.6	268
0010033	21 G 0,75	13.0	151.0	293
0010034	25 G 0,75	13,8	180.0	374
0010036	40 G 0,75	17,3	288.0	571
0010037	50 G 0,75	19,2	360.0	698
00100414	2 X 1,0	5,7	19.2	53
00100424	3 G 1,0	6.0	28.8	65
00102034	3 X 1,0	6.0	28.8	65
00100434	4 G 1,0	6,5	38.4	79
00102044	4 X 1,0	6,5	38.4	79
00100444	5 G 1,0	7,1	48.0	94
00102054	5 X 1,0	7,1	48.0	94
0010045	6 G 1,0	8.0	58.0	124
0010046	7 G 1,0	8.0	67.0	131
0010047	8 G 1,0	9,5	77.0	146
0010049	10 G 1,0	10,2	96.0	183
0010050	12 G 1,0	10,5	115.0	215
0010052	16 G 1,0	11,8	154.0	282
0010053	18 G 1,0	12,7	173.0	315
0010054	20 G 1,0	13,4	192.0	350
0010056	25 G 1,0	14,7	240.0	449
00100634	2 X 1,5	6,3	28.8	68
00100644	3 G 1,5	6,7	43.2	84
00101284	3 X 1,5	6,7	43.2	84
00100654	4 G 1,5	7,2	57.6	104
00101294	4 X 1,5	7,2	57.6	104
00100664	5 G 1,5	8,1	72.0	128
00101304	5 X 1,5	8,1	72.0	128
0010068	7 G 1,5	8,9	101.0	166
0010069	8 G 1,5	10,6	115.0	205
0010071	12 G 1,5	12.0	173.0	307
0010072	14 G 1,5	12,7	202.0	349

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0010074	18 G 1,5	14,4	259.0	465
0010076	25 G 1,5	16,9	360.0	655
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0010086	2 X 2,5	8,9	48.0	128
0010087	3 G 2,5	9,6	72.0	162
00100933	3 X 2,5	9,6	72.0	162
00100883	4 G 2,5	10,7	96.0	203
00100893	5 G 2,5	11,8	120.0	242
0010091	7 G 2,5	13,1	168.0	321
0010092	8 G 2,5	15,8	192.0	385
0010100	2 X 4	10,6	76.8	187
0010210	3 G 4	11,4	115.2	244
00101013	4 G 4	12,7	154.0	297
00101023	5 G 4	13,9	192.0	355
0010103	7 G 4	15,4	269.0	471
0010105	3 G 6	12,6	173.0	318
00101063	4 G 6	13,8	230.0	394
00101073	5 G 6	15,6	288.0	489
0010108	7 G 6	17,3	403.0	651
0010301	3 G 10	15,9	288.0	516
00101093	4 G 10	17,6	384.0	650
00101103	5 G 10	19,7	480.0	792
0010111	7 G 10	21,7	672.0	1058
0010302	3 G 16	18,3	461.0	728
00101123	4 G 16	20,4	614.0	1087
00101133	5 G 16	22,8	768.0	1118
0010303	3 G 25	23.0	720.0	1388
00101153	4 G 25	25,4	960.0	1582

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
00101163	5 G 25	28,5	1200.0	1771
0010304	3 G 35	25,6	1008.0	1766
00101173	4 G 35	28,5	1344.0	2106
00101183	5 G 35	31,9	1680.0	2635
0010305	3 G 50	31.0	1440.0	2556
00101193	4 G 50	34,5	1920.0	2943
00103133	5 G 50	38,6	2400.0	3936
0010306	3 G 70	35,3	2016.0	3182
00101203	4 G 70	39,4	2688.0	4092
00103143	5 G 70	44,1	3360.0	4800
0010307	3 G 95	41,3	2736.0	4675
00101213	4 G 95	45,8	3648.0	5290
00103153	5 G 95	51,6	4560.0	5600
0010308	3 G 120	47,6	3456.0	5626
00103093	4 G 120	53,1	4608.0	6994
00103123	4 G 185	62,8	7104.0	8300