



# ÖLFLEX® CLASSIC 110 BK

VDE-registered oil-resistant PVC control cable with black outer sheath for a wide range of applications

**Info**

- CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)
- With black outer sheath, UV-resistant
- VDE certificate of conformity with factory surveillance



**Benefits**

- Suitable for outdoor applications
- Wide choice of standardized lengths and individual cuts

**Application range**

- For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load
- Dry or damp rooms that are subject to medium mechanical loads
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)
- In power chains for a travelling distance up to 5 m and 0,2 ... 1 million bending cycles, for following dimensions: 0,5 to 2.5mm<sup>2</sup> and 2 to 7 conductors
- Suitable for outdoor applications

**Product features**

- Flame-retardant according IEC 60332-1-2
- Good chemical resistance, see catalogue appendix T1
- Oil-resistant according to DIN EN 50290-2-22 (TM54)
- UV and weather-resistant according to ISO 4892-2

**Norm references / Approvals**

- VDE reg. no. 7030 for the following sizes:  
up to 2.5 mm<sup>2</sup>: 2 - 65 cores  
from 4 mm<sup>2</sup>: 2 - 7 cores  
from 25 mm<sup>2</sup>: 2 - 5 cores

**Product Make-up**

- Fine-wire strand made of bare copper wires
- PVC insulation LAPP P8/1
- Cores twisted in layers
- PVC outer sheath, black (RAL 9005)

**Technical data**

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000104  
ETIM 5.0/6.0 Class-Description: Control cable
- Core identification code**  
Black with white numbers acc. to VDE 0293-334
- Conductor stranding**  
Fine wire according to DIN EN 60228 (VDE 0295), class 5 / IEC 60228 class 5
- Torsion movement in WTG**  
TW-0 & TW-1, refer to Appendix T0
- Minimum bending radius**  
Occasional flexing: 10 x outer diameter  
In power chains: 15 x outer diameter  
Fixed installation: 4 x outer diameter
- Nominal voltage**  
U0/U: 300/500 V
- Test voltage**  
4000 V
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor
- Temperature range**  
Occasional flexing: -15 °C to +70 °C  
In power chains: -5 °C to +70 °C  
Fixed installation: -40 °C to +80 °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® CLASSIC 110 BK</b>				
1119809	2 X0.75	5.4	14.4	45
1119871	3 G0.75	5.7	21.6	55
1119892	3 X0.75	5.7	21.6	55
1119872	4 G0.75	6.2	28.8	66
1119893	4 X0.75	6.2	28.8	66
1119873	5 G0.75	6.7	36	79
1119874	7 G0.75	7.3	50.4	101
1119875	12 G0.75	9.9	86.4	171
1119876	18 G0.75	11.7	130	244
1119877	25 G0.75	13.8	180	337
1119878	34 G0.75	15.9	245	448
1119894	2 X1.0	5.7	19.2	53
1119244	3 G1.0	6.0	28.8	65
1119895	3 X1.0	6.0	28.8	65
1119245	4 G1.0	6.5	38.4	79
1119896	4 X1.0	6.5	38.4	79
1119246	5 G1.0	7.1	48	94
1119897	5 X1.0	7.1	48	94
1119247	7 G1.0	8.0	67.2	126
1119248	12 G1.0	10.5	115	205
1119249	18 G1.0	12.7	173	290
1119251	25 G1.0	14.7	240	390
1119252	34 G1.0	17.1	326	551
1119898	2 X1.5	6.3	28.8	68
1119020	3 G1.5	6.7	43.2	84
1119899	3 X1.5	6.7	43.2	84

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1119879	4 G1.5	7.2	57.6	104
1119900	4 X1.5	7.2	57.6	104
1119880	5 G1.5	8.1	72	128
1119911	5 X1.5	8.1	72	128
1119881	7 G1.5	8.9	101	166
1119913	7 X1.5	8.9	101	166
1119882	12 G1.5	12.0	173	279
1119883	18 G1.5	14.4	259	407
1119884	25 G1.5	16.9	360	560
1119914	2 X2.5	7.5	48	100
1119885	3 G2.5	8.1	72	132
1119886	4 G2.5	8.9	96	163
1119887	5 G2.5	10.0	120	200
1119888	7 G2.5	11.1	168	267
1119889	12 G2.5	14.8	288	444
1119890	18 G2.5	17.8	432	648
1119891	25 G2.5	20.8	600	890
1119915	3 G4.0	9.9	115.2	201
1119916	4 G4.0	10.8	154	249
1119917	5 G4.0	12.1	192	315
1119918	4 G6.0	13.0	230	365
1119919	5 G6.0	14.5	288	447
1119920	4 G10.0	16.2	384	590
1119921	5 G10.0	18.1	480	722
1119922	4 G16.0	18.8	614	1087
1119923	5 G16.0	21.2	768	1370

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. 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® CLASSIC 110 LT refer to page 40
- ÖLFLEX® CLASSIC 110 BLACK 0,6/1 kV refer to page 44
- ÖLFLEX® CLASSIC 115 CY BK refer to page 48

**Accessories**

- SKINTOP® CLICK refer to page 682