



# ÖLFLEX® CLASSIC 100 CY 300/500V

Colour-coded and screened PVC control cable



**i Info**

- CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)
- EMC-compliant
- For nominal voltage U0/U: 450/750V or higher conductor cross-sections see ÖLFLEX® CLASSIC 100 CY 450/750V

**Benefits**

- Space-saving installation due to small cable diameters
- High electrical performance due to 4 kV test voltage
- Shielding against electromagnetic fields

**Application range**

- Plant engineering
- Industrial machinery
- Heating and air-conditioning systems
- Conveyor and transport systems
- Servo drives
- In EMC-sensitive environments (electromagnetic compatibility)

**Product features**

- Flame-retardant according IEC 60332-1-2
- Good chemical resistance, see catalogue appendix T1
- High degree of screening low transfer impedance (max. 250 Ω/km at 30 MHz)

**Norm references / Approvals**

- Based on EN 50525-2-51

**Product Make-up**

- Fine-wire strand made of bare copper wires
- PVC insulation LAPP P8/1
- Cores twisted in layers
- PVC inner sheath, grey
- Tinned-copper braiding
- PVC outer sheath, transparent

**Technical data**

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC001578  
ETIM 5.0/6.0 Class-Description: Flexible cable
- 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
- Conductor stranding**  
Fine wire according to VDE 0295, class 5/IEC 60228 class 5
- Minimum bending radius**  
Occasional flexing: 20 x outer diameter  
Fixed installation: 6 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: -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 100 CY 300/500 V</b>				
0035001	2 X 0.5	7.0	41	75
0035002	3 G 0.5	7.3	46	83
00350033	4 G 0.5	7.9	55	99
00352013	5 G 0.5	8.4	66	112
0035202	7 G 0.5	8.9	80	132
0035004	2 X 0.75	7.4	46	86
0035005	3 G 0.75	7.9	57	100
00350063	4 G 0.75	8.4	64	115
00350163	5 G 0.75	8.9	77	130
0035203	7 G 0.75	9.7	102	161
0035220	2 X 1.0	7.9	56	98
0035221	3 G 1.0	8.2	65	111
00352223	4 G 1.0	8.7	78	130

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
00352233	5 G 1.0	9.5	89	153
0035204	7 G 1.0	10.2	113	185
11356500	3 G 1.5	8.9	77	135
11356501	4 G 1.5	9.6	94	165
11356502	3 G 2.5	10.3	118	190
11356503	4 G 2.5	11.3	149	230
11356504	4 G 4.0	13.4	222	345
11356505	4 G 6.0	15.8	317	485
11356506	4 G 10.0	19.5	497	735
11356507	4 G 16.0	22.7	757	1200
11356508	4 G 25.0	27.4	1150	1730
11356509	4 G 35.0	31.0	1566	2210
11356510	4 G 50.0	37.2	2212	2950

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](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).  
 Single lengths for sizes: ≥ 4G50 max. 500 m; ≥ 4G95 max. 400 m; ≥ 4G120 max. 300 m; ≥ 4G150 max. 250 m  
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.

**Similar products**

- ÖLFLEX® CLASSIC 100 CY 450/750V refer to page 32
- ÖLFLEX® SERVO 2YSLCY-JB refer to page 108

**Accessories**

- SKINTOP® BRUSH ADD-ON refer to page 694
- 3M Scotch™ 1183 screening tape refer to page 992
- SKINTOP® MS-M BRUSH refer to page 696



## ÖLFLEX® CLASSIC 100 CY 450/750V

Colour-coded and screened PVC power and control cable



### Info

- CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)
- EMC-compliant
- For nominal voltage U<sub>0</sub>/U: 300/500V and conductor cross-sections below 1,5mm<sup>2</sup> see ÖLFLEX® CLASSIC 100 CY 300/500V

### Benefits

- High electrical performance due to 4 kV test voltage
- Shielding against electromagnetic fields

### Application range

- Plant engineering  
Industrial machinery  
Heating and air-conditioning systems
- Conveyor and transport systems
- Servo drives
- In EMC-sensitive environments (electromagnetic compatibility)

### Product features

- Flame-retardant according IEC 60332-1-2
- Good chemical resistance, see catalogue appendix T1
- High degree of screening  
low transfer impedance  
(max. 250 Ω/km at 30 MHz)

### Norm references / Approvals

- Based on EN 50525-2-51

### Product Make-up

- Fine-wire strand made of bare copper wires
- PVC insulation LAPP P8/1
- Cores twisted in layers
- PVC inner sheath, grey
- Tinned-copper braiding
- PVC outer sheath, transparent

### Technical data



#### Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC001578  
ETIM 5.0/6.0 Class-Description:  
Flexible cable



#### 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



#### Conductor stranding

Fine wire according to VDE 0295, class 5/IEC 60228 class 5



#### Minimum bending radius

Occasional flexing: 20 x outer diameter  
Fixed installation: 6 x outer diameter



#### Nominal voltage

U<sub>0</sub>/U: 450/750 VAC  
In protected and fixed installations:  
U<sub>0</sub>/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

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 100 CY 450/750 V</b>				
0035000	2 X 1.5	9.9	65	132
0035458	3 G 1.5	10.3	79	170
00354593	4 G 1.5	11.3	97	204
00354603	5 G 1.5	12.6	116	246
0035461	7 G 1.5	13.9	149	320
0035011	3 G 2.5	11.8	146	211
00350173	4 G 2.5	13.5	167	310
00350123	5 G 2.5	14.6	200	326
0035289	7 G 2.5	15.9	288	444
00350183	4 G 4.0	15.1	237	403
00350133	5 G 4.0	16.5	328	478
00350193	4 G 6.0	16.6	318	521
00350143	5 G 6.0	18.2	441	624
0034953	3 G 10.0	18.9	414	690
00350213	4 G 10.0	21.1	558	843
00352903	5 G 10.0	23.1	714	1004

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0034954	3 G 16.0	21.7	607	910
00350223	4 G 16.0	23.9	804	1164
00350153	5 G 16.0	26.8	1050	1812
0034955	3 G 25.0	26.6	936	1330
00350233	4 G 25.0	29.4	1289	1903
00350243	5 G 25.0	32.6	1446	2374
0034956	3 G 35.0	29.4	1258	1370
00350253	4 G 35.0	32.4	1693	2489
00350263	5 G 35.0	36.0	1975	2771
0034952	3 G 50.0	35.1	1748	2590
00350273	4 G 50.0	38.8	2342	3362
00350283	4 G 70.0	43.7	3035	3719
00350293	4 G 95.0	50.4	4055	5849
00354303	4 G 120.0	56.8	5225	7509
00354313	4 G 150.0	62.2	6300	7800
00354323	4 G 185.0	67.8	7753	9866

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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).

Single lengths for sizes: ≥ 4G50 max. 500 m; ≥ 4G95 max. 400 m; ≥ 4G120 max. 300 m; ≥ 4G150 max. 250 m

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### 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
- 3M Scotch™ 1183 screening tape refer to page 992
- SKINTOP® MS-HF-M BRUSH refer to page 702
- SKINTOP® MS-M BRUSH refer to page 696