

The EMC-compliant Connection Cable with coloured cores
For high-power servo motors



Application

- Mainly where electrical interference fields caused e.g. by electrical motor driven by frequency converters, can disturb signal transmissions
- Further applications similar to ÖLFLEX® CLASSIC 100

Areas of application:

- Plant engineering and construction
- Conveying and transport systems
- Air conditioning installations
- Office machines and systems for data processing

Advantage

- High shielding coverage and low transfer impedance (max. 250 ohm/km at 30 MHz)
- The transparent outer sheath protect the tinned copper braiding against soiling and mechanical damage
- The 4 kV Test Voltage ensures high insulation performance
- Largely resistant to oil and chemicals

Worth knowing

- The copper braid serves as an electromagnetic screening between the internal electric circuits and the surroundings

- EMC-compliant earthing of the copper braiding with SKINTOP® EMC, see Cable Glands

- FLEXIMARK®

- Cable Marking

- Cable processing products see "Cable Accessories"

Comparable products:

- UV-resistant cables, see ÖLFLEX® CLASSIC 110 CY black 0.6/1kV or ÖLFLEX® ROBUST 215 C

- Smaller cross-sections in the UNITRONIC® 100 CY range

Technical notes:

- Flame-retardant acc. to IEC 60332-1-2

- On request, also with drain wire under the braid

Cable Make-up

- Fine strands of bare copper wires
- Core insulation made of LAPP PVC Compound P8/1
- Core colours see "Technical data"
- Cores twisted in layers
- Inner sheath made of special PVC-based compound, grey-coloured
- Screen braiding made of tinned copper wires
- Transparent outer sheath made of special PVC-based compound

Technical Data

Core identification code
Up to 5 cores:
acc. to VDE 0293-308,
see table T9
Starting at 6 cores:
ÖLFLEX® colour code, table 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 acc. to:
VDE 0295 Kl.5
IEC 60228 Cl.5

Minimum bending radius
Flexing:
20 x cable diameter
Fixed installation:
6 x cable diameter

Rated voltage
Up to 1,0 mm²:
U₀/U=300/500 V
Starting at 1.5 mm²:
U₀/U=450/750 V
Starting at 1.5 mm² for fixed and
protected installation:
U₀/U=600/1000 V

Test voltage
4000 V

Protective conductor
G = with protective conductor
GN/YE
X = without protective conductor

Range of temperature
Flexible application:
-5 °C to +70 °C
Fixed installation:
-40 °C to +80 °C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.	Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 100 CY; U₀/U: 300/500 V									
0035001	2 X 0,5	7,0	41,0	75	0035289	7 G 2,5	15,9	288,0	444
0035002	3 G 0,5	7,3	46,0	83	00350183	4 G 4	15,1	237,0	403
00350033	4 G 0,5	7,9	55,0	99	00350133	5 G 4	16,5	328,0	478
00352013	5 G 0,5	8,4	66,0	112	00350193	4 G 6	16,6	318,0	524
0035202	7 G 0,5	8,9	80,0	132	00350143	5 G 6	18,2	441,0	624
0035004	2 X 0,75	7,4	46,0	86	0034953	3 G 10	19,6	414,0	690
0035005	3 G 0,75	7,9	57,0	100	00350213	4 G 10	21,1	558,0	843
00350063	4 G 0,75	8,4	64,0	115	00352903	5 G 10	23,1	714,0	1004
00350163	5 G 0,75	8,9	77,0	130	0034954	3 G 16	21,6	607,0	910
0035203	7 G 0,75	9,7	102,0	161	00350223	4 G 16	23,9	804,0	1395
0035220	2 X 1,0	7,9	56,0	98	00350153	5 G 16	26,8	1050,0	1812
0035221	3 G 1,0	8,2	65,0	111	0034955	3 G 25	25,6	936,0	1330
00352223	4 G 1,0	8,7	78,0	130	00350233	4 G 25	29,4	1289,0	1903
00352233	5 G 1,0	9,5	89,0	153	00350243	5 G 25	32,6	1446,0	2374
0035204	7 G 1,0	10,2	113,0	185	0034956	3 G 35	29,8	1258,0	1370
ÖLFLEX® CLASSIC 100 CY; U₀/U: 450/750 V									
0035000	2 X 1,5	9,9	65,0	132	00350253	4 G 35	32,4	1693,0	2489
0035458	3 G 1,5	10,3	79,0	170	00350263	5 G 35	36,0	1975,0	2771
00354593	4 G 1,5	11,3	97,0	204	0034952	3 G 50	36,0	1748,0	2590
00354603	5 G 1,5	12,6	116,0	246	00350273	4 G 50	38,8	2342,0	3362
0035461	7 G 1,5	13,9	149,0	320	00350283	4 G 70	43,7	3035,0	3719
0035011	3 G 2,5	11,8	146,0	211	00350293	4 G 95	50,4	4055,0	5849
00350173	4 G 2,5	13,5	167,0	310	00354303	4 G 120	56,8	5225,0	7509
00350123	5 G 2,5	14,6	200,0	326	00354313	4 G 150	62,2	6300,0	7800
					00354323	4 G 185	67,8	7753,0	9866

G = with Protective Conductor GNYE; X = without Protective Conductor
Copper price basis: EUR 150 / 100 kg
Standard lengths: (50; 100; 500; 1000) m
Packaging size: Coil < 30 kg, above automatically drum
Please specify the desired make-up (e.g. 1 x 500 m drum or 5 x 100 m coils)
Single lengths for sizes: ≥ 4G50 max. 500m; ≥ 4G95 max. 400m; ≥ 4G120 max. 300m; ≥ 4G150 max. 250m