

Harsh use conditions

Increased mechanical and chemical resistance

ÖLFLEX® ROBUST 210



Info

- Robust and weatherproofed

Benefits

- Wide range of application opportunities

Application range

- Machine tool manufacture, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works
- Food and beverage industry, especially for production- and processing equipment of milk and meat products
- In environment where exposed to oils, fats, waxes (vegetable- or animal-based or synthetic) or their emulsions
- For indoor and outdoor use

Product features

- Halogen-free materials

- High dielectric strength and low mutual capacitance
- Good resistance to hot and cold water as well as to water-soluble cleaning agents (tensides, soaps etc.)
- UV-resistant and weatherproofed
- Flexible down to -40 °C

Approvals (Norm references)



Product Make-up

- Fine strands of bare copper wires
- Halogen-free, TPE core insulation
- Cores twisted in layers with short lay lengths
- Robust outer sheath made of special halogen-free TPE, black (RAL 9005)

Technical data

Core identification code
black with white numbers acc. to VDE 0293

Based on
VDE 0250/0281

Specific insulation resistance
> 20 GOhm x cm

Conductor stranding
fine wire acc. to VDE 0295 Kl.5 / IEC 60228 Cl.5

Minimum bending radius
occasional flexing: 15 x cable diameter
fixed installation: 4 x cable diameter

Rated voltage
U_c/U: 300/500 V

Test voltage
4000 V

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

Range of temperature
occasional flexing: -40 °C to +80 °C
fixed installation: -50 °C to +80 °C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® ROBUST 210				
0021880	2 X 0.5	4.9	10.0	27
0021881	3 G 0.5	5.2	15.0	33
0021882	3 X 0.5	5.2	15.0	33
0021883	4 G 0.5	5.8	19.2	41
0021884	4 X 0.5	5.8	19.2	41
0021885	5 G 0.5	6.3	24.0	49
0021886	5 X 0.5	6.3	24.0	49
0021888	7 G 0.5	6.9	33.6	64
0021889	7 X 0.5	6.9	33.6	64
0021890	10 G 0.5	8.8	48.0	92
0021891	12 G 0.5	9.1	58.0	106
0021892	18 G 0.5	10.8	86.4	151
0021893	25 G 0.5	12.7	120.0	210
0021897	2 X 0.75	5.5	14.4	35
0021898	3 G 0.75	5.8	21.6	44
0021899	3 X 0.75	5.8	21.6	44
0021900	4 G 0.75	6.3	28.8	54
0021901	4 X 0.75	6.3	28.8	54
0021902	5 G 0.75	6.9	36.0	65
0021903	5 X 0.75	6.9	36.0	65
0021904	7 G 0.75	7.5	50.0	85
0021905	7 X 0.75	7.5	50.0	85
0021907	12 G 0.75	10.1	86.0	144
0021908	18 G 0.75	12.0	130.0	208
0021909	25 G 0.75	14.1	180.0	288
0021910	34 G 0.75	16.3	245.0	386
0021911	41 G 0.75	17.8	296.0	464
0021912	50 G 0.75	19.6	360.0	560
0021913	2 X 1	5.8	19.2	42
0021914	3 G 1	6.1	28.8	53
0021915	3 X 1	6.1	28.8	53
0021916	4 G 1	6.6	38.4	66
0021917	4 X 1	6.6	38.4	66
0021918	5 G 1	7.3	48.0	80
0021919	5 X 1	7.3	48.0	80
0021920	7 G 1	8.1	67.0	107
0021921	10 G 1	10.4	96.0	154

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
0021922	12 G 1	10.7	115.0	178
0021923	18 G 1	12.9	173.0	262
0021924	25 G 1	15.0	240.0	357
0021925	34 G 1	17.5	326.0	484
0021926	41 G 1	19.2	394.0	582
0021927	50 G 1	21.0	480.0	703
0021928	2 X 1.5	6.4	29.0	56
0021929	3 G 1.5	6.8	43.0	72
0021930	3 X 1.5	6.8	43.0	72
0021931	4 G 1.5	7.4	58.0	91
0021932	4 X 1.5	7.4	58.0	91
0021933	5 G 1.5	8.3	72.0	112
0021934	5 X 1.5	8.3	72.0	112
0021936	7 G 1.5	9.0	101.0	149
0021937	7 X 1.5	9.0	101.0	149
0021938	10 G 1.5	11.8	143.0	215
0021940	12 G 1.5	12.2	173.0	251
0021941	18 G 1.5	14.6	259.0	369
0021942	25 G 1.5	17.2	360.0	510
0021943	34 G 1.5	19.8	490.0	683
0021945	50 G 1.5	24.0	720.0	999
0021946	2 X 2.5	7.6	48.0	86
0021947	3 G 2.5	8.3	72.0	115
0021949	4 G 2.5	9.0	96.0	144
0021951	5 G 2.5	10.1	120.0	178
0021953	7 G 2.5	11.2	168.0	241
0021954	12 G 2.5	15.1	288.0	405
0021963	3 G 4	10.1	115.0	180
0021964	4 G 4	11.1	157.0	228
0021965	5 G 4	12.4	192.0	280
0021966	7 G 4	13.6	269.0	377
0021967	4 G 6	13.3	230.0	332
0021968	5 G 6	14.8	288.0	407
0021969	4 G 10	16.5	384.0	541
0021970	5 G 10	18.4	480.0	664
0021971	4 G 16	18.8	614.0	806
0021972	4 G 25	23.5	960.0	1,218
0021973	4 G 35	26.4	1,344.0	1,658

Copper price basis: EUR 150 / 100 kg
 Our standard lengths, please visit: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)
 Single lengths for sizes: ≥ 4G16 max. 600m; ≥ 4G25 max. 300m; ≥ 4G50 max. 250m

Comparable products

- ÖLFLEX® ROBUST 200 see page 65
- ÖLFLEX® ROBUST 215 C see page 67
- ÖLFLEX® FD ROBUST see page 124
- ÖLFLEX® FD ROBUST C see page 125

Accessories

- Stainless steel - Box Starter - Set see page 787
- SKINTOP® MS-M see page 564
- SKINTOP® ST-HF-M see page 558