

## Product Description

Saving effects due to a wide range of applications; Thanks to the broad temperature range worldwide applicable; Good combination of quality and price



## 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 environments where exposed to oils, fats, waxes (vegetable or animal based or synthetic) or their emulsions
- For indoor and outdoor use

## Benefits

- Saving effects due to a wide range of applications
- Thanks to the broad temperature range worldwide applicable
- Good combination of quality and price

## Design

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

## 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,...)
- UV resistant and weather proof
- Flexible down to -40 °C

## 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 in accordance to VDE 0295 Class 5 / IEC 60228 Class 5

### Minimum bending radius

Occasional flexing: 15 x cable diameter  
Fixed installation: 4 x cable diameter

### Rated voltage

U0/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 up to +80°C  
Fixed installation: -50°C up to +80°C

## Article List

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
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	43
0021899	3 X 0,75	5,8	21.6	43
0021900	4 G 0,75	6,3	28.8	49
0021901	4 X 0,75	6,3	28.8	49

0021902	5 G 0,75	6,9	36.0	66
0021903	5 X 0,75	6,9	36.0	66
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 1,0	5,8	19.2	42
0021914	3 G 1,0	6,1	28.8	49
0021915	3 X 1,0	6,1	28.8	49
0021916	4 G 1,0	6,6	38.4	63
0021917	4 X 1,0	6,6	38.4	63
0021918	5 G 1,0	7,3	48.0	78
0021919	5 X 1,0	7,3	48.0	78
0021920	7 G 1,0	8,1	67.0	107
0021921	10 G 1,0	10,4	96.0	154
0021922	12 G 1,0	10,7	115.0	178
0021923	18 G 1,0	12,9	173.0	262
0021924	25 G 1,0	15.0	240.0	357
0021925	34 G 1,0	17,5	326.0	484
0021926	41 G 1,0	19,2	394.0	582
0021927	50 G 1,0	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	108
0021934	5 X 1,5	8,3	72.0	108
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	234
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	131
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	620
0021971	4 G 16	18,8	614.4	806
0021972	4 G 25	23,5	960.0	1218
0021973	4 G 35	26,4	1344.0	1658

**Footnote:**

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil  $\leq$  30 kg and  $\leq$  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:  $\geq$  4G16 max. 600m;  $\geq$  4G25 max. 300m;  $\geq$  4G50 max. 250m

Photographs are not to scale and do not represent detailed images of the respective products.