

Silicone insulated copper cables 4-300 mm²

1,8/3 kV, single insulated

Highly flexible, free of halogen, self-extinguishing, with UL-style

Electrical connection technology

For the electrical connection of our highly flexible silicone insulated cables we also supply the correspondingly dimensioned cable lugs and processing tools. For detailed information, please refer to our catalogue no. 1 "Professional installation- and electrical connection technique for craft, industry and high current application" which we will be happy to send you free of charge on request.

Technical data

Electrical conductor:

- Round stranded copper cable out of copper ETP 1 wires acc. to DIN EN 13602
- Soft annealed, uncoated
- Single wire-Ø 0,07 mm (4-16 mm²)
- Single wire-Ø 0,10 mm (25 - 300 mm²)

Insulation:

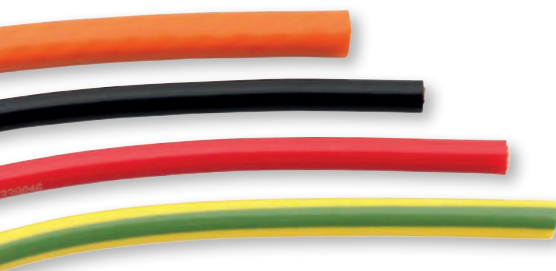
- Silicone rubber ca. 60 Shore A
- Natural-coloured
- Free of halogen, Chlorine content < 4 ppm
- Hardly inflammable, self-extinguishing
- Operating voltage 1,8/3 kV
- Testing voltage 10 kV AC (Sparktest)
- Dielectric strength 20 kV/mm
- Operating temperature - 50 °C up to 180 °C
shortly + 250 °C up to + 300 °C (soldering iron contact)
- Short circuit resistance SiR + 350 °C

Approvals an fire tests:

- UL-Style 3858
- DIN EN 60332-1-2/VDE 0482-332-1-2
- DIN EN 60332-3-24/VDE 0482-332-3-24
- DIN EN 61034-2/VDE 0482-1034-2
- DIN EN 50305/VDE 0260-305 Section 9.2

Delivery:

- Optionally in rings, on one way or plastic spools or wooden drums



Part-No.	Technical data								
	cross-section mm ²	dimensions ca. mm			current load in dependence of the conductor heat in °C				
		conductor structure	outer-Ø	insulation thick- ness approx.	45 °C	80 °C	90 °C	100 °C	130 °C
15014	4,0	1036 x 0,07	4,8	1,1	30 A	50 A	55 A	60 A	70 A
15016	6,0	1568 x 0,07	5,6	1,1	40 A	65 A	70 A	78 A	90 A
15020	10,0	2562 x 0,07	8,5	2,0	50 A	90 A	98 A	107 A	120 A
15022	16,0	4116 x 0,07	10,0	2,0	70 A	125 A	132 A	143 A	160 A
15024	25,0	3234 x 0,10	12,0	2,3	95 A	160 A	176 A	187 A	215 A
15026	35,0	4508 x 0,10	13,8	2,5	115 A	200 A	218 A	230 A	260 A
15028	50,0	6468 x 0,10	15,5	2,5	145 A	245 A	276 A	287 A	325 A
15030	70,0	8967 x 0,10	18,0	2,5	175 A	305 A	347 A	352 A	400 A
15032	95,0	12201 x 0,10	20,0	2,5	215 A	370 A	416 A	425 A	485 A
15034	120,0	15435 x 0,10	21,5	2,5	245 A	425 A	488 A	495 A	560 A
15036	150,0	19404 x 0,10	23,5	2,5	285 A	490 A	566 A	575 A	640 A
15038	185,0	23580 x 0,10	26,0	2,5	320 A	555 A	644 A	655 A	730 A
15040	240,0	30600 x 0,10	28,5	2,5	380 A	650 A	775 A	790 A	855 A
15042	300,0	38200 x 0,10	32,5	2,5	435 A	750 A	898 A	915 A	985 A

Remark: All information about current load are approximate values in consideration of the cables, heat for single laying of air cooled cables and ambient temperature + 30 °C. The values of conductor heat of + 90 °C are in accordance with VDE 0298 part 4 table 15. By changing the ambient temperature or the kind of laying reducing factors are to be considered. Nature colour is standard but on request it is also possible to manufacture cables with colours like black, red, blue yellow/green etc. or with reduced insulation thickness and other operating voltages. Minimum quantity on request. The outside diameter of our highly flexible copper conductors are manufactured in consideration with cable lugs acc. to DIN 46234/DIN 46341 and druseidt tubular cable lugs for fine stranded cables.