

Besilen® - Silicone Cables

Nominal voltage up to
U₀/U 1,8/3 kV AC

B 110 C

Besilen® insulated shielded copper rope



Marking for B 110 C 01109507:

SAB BRÜCKSKES · D-VIERSEN · B 110 C U₀/U 1,8/3 kV 95,0mm²

Application: The connection cable is particularly appropriate to connect converters to electric-mobility test benches. Due to the high voltage rating, the cable can be used for various components and the power electronics. The extremely flexible cable design enables an easy laying.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1, orange
Screen:	alu-foil and tinned copper braiding
Sheath material:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Sheath colour:	orange (similar RAL 2004)

Outstanding features:



- good EMC characteristics
- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant

Technical data:

Nominal voltage	4,0 - 6,0 mm ² : U ₀ /U 1,5/1,5 kV AC U ₀ /U 2,2/2,2 kV DC 10,0 - 240,0 mm ² : U ₀ /U 1,8/3,0 kV AC U ₀ /U 2,7/5,4 kV DC
Testing voltage	4,0 - 6,0 mm ² : 4000 V 10,0 - 240,0 mm ² : 6500 V
Current-carrying capacity:	acc. to VDE 0298-4, see chapter N „Technical data“
Min. bending radius <i>fixed laying:</i> <i>flexible application:</i>	6 x d 10 x d
Temperature range <i>fixed laying:</i> <i>flexible application:</i> <i>short-time use:</i>	-40/+180 °C -25/+180 °C +250 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosiveness of conflagration gases:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

item no.	nominal cross section mm ²	largest single wire ø mm	ø over inner sheath approx. mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
01100407	4,00	0,07	5,3	8,0	59,2	101
01100607	6,00	0,07	5,7	8,4	108,8	143
01101007	10,00	0,07	8,2	11,7	147,7	229
01101607	16,00	0,07	8,5	12,0	205,7	280
01102507	25,00	0,10	11,2	14,7	307,4	420
01103507	35,00	0,10	12,6	16,3	432,6	548
01105007	50,00	0,10	14,5	18,2	593,6	721
01107007	70,00	0,10	16,5	20,6	804,4	953
01109507	95,00	0,10	18,4	22,3	1064,5	1232
01101207	120,00	0,10	20,1	24,2	1311,0	1493
01101507	150,00	0,10	23,3	27,4	1627,6	1833
01101857	185,00	0,15	24,9	29,2	1970,9	2202
01102407	240,00	0,15	29,0	33,5	2554,3	2771

Other dimensions and colours are possible on request.