

Besilen® - Silicone Cables

B 110 C

highly flexible Besilen® insulated HV single core, shielded, cULus recognized

Nominal voltage up to
U₀/U 1.8/3 kV AC

Style 30123 AWM I/II A/B 150°C 3000V FT1 FT2



Marking for B 110 C 01109507:

SAB BRÖCKSKES · D-VIERSEN · B 110 C U₀/U 1,8/3 kV 95,0mm² cULus AWM Style 30123 AWM I/II A/B 150°C 3000V FT1 FT2

Application: The connection cable is for example appropriate to connect converters to electric-mobility test benches. Due to the high voltage rating, the cable can be used for various components and 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:



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

Technical data:

Nominal voltage:	U ₀ /U 1,8/3,0 kV AC U ₀ /U 2,7/5,4 kV DC
Voltage cULus:	3000 V
Testing voltage:	6500 V
Current-carrying capacity:	acc. to VDE 0298-4, see chapter N „Technical data“
Min. bending radius	
fixed laying:	6 x d
flexible application:	10 x d
Temperature range	DIN VDE cULus: up to +150 °C
fixed laying:	-40/+180 °C
flexible application:	-25/+180 °C
short time use:	+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, cULus FT1, FT2
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
01100107	1,00	0,07	4,3	7,6	27,2	70
01100157	1,50	0,07	4,7	8,0	34,4	81
01100257	2,50	0,07	5,2	8,5	44,6	96
01100407	4,00	0,07	5,9	9,2	61,3	118
01100607	6,00	0,07	6,3	9,6	83,8	143
01101007	10,00	0,07	8,2	11,7	147,7	222
01101607	16,00	0,07	8,5	12,0	205,7	273
01102507	25,00	0,10	10,9	14,7	307,4	416
01103507	35,00	0,10	12,6	16,3	432,6	548
01105007	50,00	0,10	14,5	18,2	593,6	725
01107007	70,00	0,10	16,5	20,4	804,4	954
01109507	95,00	0,10	18,4	22,3	1064,5	1244
01101207	120,00	0,10	20,1	24,2	1311,0	1514
01101507	150,00	0,10	23,3	27,4	1627,6	1873
01101857	185,00	0,15	24,9	29,2	1970,9	2231
01102407	240,00	0,15	27,5	32,0	2511,2	2841
01103007	300,00	0,15	30,0	34,7	3108,6	3354

Other dimensions and colours are possible on request.

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