

HIGHLY FLEXIBLE HIGH VOLTAGE CABLE

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

B 107

highly flexible Besilen® HV single core, unshielded



Marking for B 107 01079507:

SAB BRÖCKSKES · D-VIERSEN · B 107 U₀/U 1,8/3 kV 95,0mm²

Construction:

Conductor:	bare copper strands, extra fine wires
Core insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
Sheath colour:	orange (similar RAL 2004)

Technical data:

Nominal voltage	4,0 - 6,0 mm ² : U ₀ /U 1,5/1,5 kV 10,0 - 185,0 mm ² : U ₀ /U 1,8/3,0 kV
Testing voltage	4,0 - 6,0 mm ² : 4000 V 10,0 - 185,0 mm ² : 6500 V
Current-carrying capacity:	acc. to VDE 0298-4
Min. bending radius:	5 x d
Temperature range	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
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

Outstanding features:



- extremely flexible
- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
01070107	1,00	0,07	4,3	9,6	25
01070157	1,50	0,07	4,7	14,4	32
01070257	2,50	0,07	5,2	24,0	43
01070407	4,00	0,07	5,9	38,4	60
01070607	6,00	0,07	6,3	57,6	80
01071007	10,00	0,07	9,0	96,0	146
01071607	16,00	0,07	9,3	153,6	196
01072507	25,00	0,10	12,0	240,0	314
01073507	35,00	0,10	13,8	336,0	426
01075007	50,00	0,10	15,7	480,0	581
01077007	70,00	0,10	17,7	672,0	777
01079507	95,00	0,10	18,8	912,0	1012
01071207	120,00	0,10	20,5	1152,0	1244
01071507	150,00	0,10	23,7	1440,0	1551
01071857	185,00	0,15	25,3	1776,0	1893
01072407	240,00	0,15	27,9	2304,0	2509
01073007	300,00	0,15	30,8	2880,0	3003

Other dimensions and colours are possible on request.

**for E-Mobility
HV test benches**