

High-Voltage Cables for Electric Vehicles

B 107

Highly flexible silicone high-voltage single conductor, unshielded



BRÖCKSKES · D-VIERSEN · B 107 U₀/U 1.8/3 kV 10.0mm²



Marking for B 107 1071000:

SAB BRÖCKSKES · D-VIERSEN · B 107 U₀/U 1.8/3 kV 10.0mm²

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
Color:	translucent

Technical data:

Nominal voltage:	U ₀ /U 1.8/3 kV
Testing voltage:	6500 V
Current carrying capacity:	acc. to VDE 0298-4, see page O20 & O21
Min. bending radius:	5 x O.D.
Temperature range:	
<i>static:</i>	-40/+180°C
<i>flexible:</i>	-25/+180°C
<i>short-term use:</i>	+250°C
Halogen-free	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Weather resistance:	very good
Approvals:	RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

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

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item no.	mm ²	AWG	nominal outer-ø		cable weight ≈lbs/mft	
			inch	mm		
▶ 1070100	1.00	18		0.169	4.3	17
▶ 1070150	1.50	16	(≈ 84/34)	0.185	4.7	22
▶ 1070250	2.50	14	(≈ 140/34)	0.205	5.2	29
▶ 1070400	4.00	12	(≈ 224/34)	0.209	5.3	36
▶ 1070600	6.00	10	(≈ 186/32)	0.224	5.7	50
▶ 1071000	10.00	8	(≈ 320/32)	0.354	9.0	98
▶ 1071600	16.00	6	(≈ 504/32)	0.366	9.3	132
▶ 1072500	25.00	4	(≈ 760/32)	0.472	12.0	211
▶ 1073500	35.00	2	(≈ 1083/32)	0.543	13.8	286
▶ 1075000	50.00	1	(≈ 703/28)	0.618	15.7	390
▶ 1077000	70.00	2/0	(≈ 988/28)	0.697	17.7	522
▶ 1079500	95.00	3/0	(≈ 1340/28)	0.740	18.8	680
▶ 1071200	120.00	4/0	(≈ 1680/28)	0.807	20.5	836
▶ 1071500	150.00	250 MCM	(≈ 2122/28)	0.933	23.7	1042
▶ 1071850	185.00	350 MCM	(≈ 1472/26)	0.996	25.3	1272
▶ 1072400	240.00	450 MCM		1.098	27.9	1685
▶ 1073000	300.00	550 MCM		1.213	30.8	2018

Other dimensions and colors are available on request



Copper rope with orange jacket
for E-Mobility HV test benches