

High-Voltage Cables for Electric Vehicles

B 107 HV

Highly flexible silicone HV single conductor, unshielded, cULus recognized



mm² cULus AWM Style 30122 AWM I A/B 150°C 3000V FT2



Marking for B 107 HV 1079507:

SAB BRÜCKSKES · D-VIERSEN · B 107 U₀/U 1.8/3.0 kV 95.0mm² cULus AWM Style 30122 AWM I A/B 150°C 3000V FT2

Application: The highly flexible single core is particularly appropriate for the application on electric test benches. Due to the fine stranding and the resulting flexibility, the cable can be installed easily. The high voltage single core is designed for a voltage range up to 1.8/3 kV. In this way it fulfills the increasing demands within the voltage class.

Construction:

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

Outstanding features:

- extremely flexible
- 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 page O20 & O21
Min. bending radius:	<i>fixed installation:</i> 6 x O.D. <i>free movement:</i> 10 x O.D.
Temperature range:	DIN VDE: -40/+180°C <i>static:</i> -25/+180°C <i>flexible:</i> +250°C cULus: up to +150°C <i>short-term use:</i>
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 cULus FT1, FT2
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Weather resistance:	very good
Approvals:	cULus AWM, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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item no.	mm ²	AWG	outer-ø		cable weight ≈lbs/mft
			inch	mm	
▶ 1070107	1.00	18	0.169	4.3	17
▶ 1070157	1.50	16 (≈ 84/34)	0.185	4.7	21
▶ 1070257	2.50	14 (≈ 140/34)	0.205	5.2	29
▶ 1070407	4.00	12 (≈ 224/34)	0.248	6.3	40
▶ 1070607	6.00	10 (≈ 186/32)	0.248	6.3	49
▶ 1071007	10.00	8 (≈ 320/32)	0.354	9.0	97
▶ 1071607	16.00	6 (≈ 504/32)	0.366	9.3	130
▶ 1072507	25.00	4 (≈ 760/32)	0.472	12.0	212
▶ 1073507	35.00	2 (≈ 1083/32)	0.543	13.8	290
▶ 1075007	50.00	1 (≈ 703/28)	0.618	15.7	397
▶ 1077007	70.00	2/0 (≈ 988/28)	0.697	17.7	522
▶ 1079507	95.00	3/0 (≈ 1340/28)	0.740	18.8	694
▶ 1071207	120.00	4/0 (≈ 1680/28)	0.807	20.5	860
▶ 1071507	150.00	250 MCM (≈ 2122/28)	0.933	23.7	1076
▶ 1071857	185.00	350 MCM (≈ 1472/26)	0.996	25.3	1301
▶ 1072407	240.00	450 MCM	1.098	27.9	1686
▶ 1073007	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**



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