

High-Voltage Cables for Electric Vehicles

B 110 C

Silicone insulated shielded copper rope with overall copper shield



Marking for B 110 C 1109507:

SAB BRÖCKSKES · B 110 C Sense Cable 2x1.0mm² 1109001 cRUus AWM Style 4659 AWM I/II A/B 150°C 3000V FT1 FT2 CE

Construction:

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

Technical data:

Nominal voltage:	U ₀ /U 1.8/3 kV AC U ₀ /U 2.7/5.4 kV DC
Testing voltage:	conductor/shielding: 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:	<i>static:</i> -40/+180°C <i>flexible:</i> -25/+180°C <i>cURus:</i> up to 150°C
Halogen-free	acc. to IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosivity:	IEC 60754-2 - no development of corrosive conflagration gases
Weather resistance:	very good
Approvals:	cURus AWM DC resistance at 20°C, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



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

item no.	mm ²	AWG	ø over inner jacket approx.		nominal outer-ø		cable weight ≈lbs/mft
			inch	mm	inch	mm	
▶ 1100107	1.00	18	0.169	4.3	0.299	7.6	42
▶ 1100157	1.50	16	0.185	4.7	0.315	8.0	54
▶ 1100257	2.50	14	0.205	5.2	0.335	8.5	65
▶ 1100407	4.00	12 (≈ 224/34)	0.232	5.9	0.358	9.1	66
▶ 1100607	6.00	10 (≈ 186/32)	0.248	6.3	0.378	9.6	96
▶ 1101007	10	8 (≈ 320/32)	0.323	8.2	0.461	11.7	154
▶ 1101607	16	6 (≈ 504/32)	0.335	8.5	0.472	12.0	188
▶ 1102507	25	4 (≈ 760/32)	0.441	11.2	0.579	14.7	282
▶ 1103507	35	2 (≈ 1083/32)	0.496	12.6	0.642	16.3	368
▶ 1105007	50	1 (≈ 703/28)	0.571	14.5	0.717	18.2	486
▶ 1107007	70	2/0 (≈ 988/28)	0.650	16.5	0.803	20.4	640
▶ 1109507	95	3/0 (≈ 1340/28)	0.724	18.4	0.878	22.3	828
▶ 1101207	120	4/0 (≈ 1680/28)	0.791	20.1	0.953	24.2	1004
▶ 1101507	150	250 MCM (≈ 2122/28)	0.917	23.3	1.079	27.4	1232
▶ 1101857	185	350 MCM (≈ 1472/26)	0.980	24.9	1.150	29.2	1497
▶ 1102407	240	450 MCM	1.083	27.5	1.260	32.0	1906
▶ 1103007	300	550 MCM	1.181	30.0	1.366	34.7	2250

Other dimensions and colors are available on request



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Application:



for example: the connection of converters to test benches for electric mobility.
Very good laying compatibility due to the extremely flexible construction.