

High-Voltage Cables for Electric Vehicles

B 110 C Sense Cable

Halogen-free, high temperature and voltage shielded silicone cable



Marking for B 110 C Sense Cable 1109001:

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

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
Color code:	black and red
Stranding:	conductor twisted with tinned copper drain wire, AWG 26
Shield:	alu foil and 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 1.8/3.0 kV AC U ₀ /U 2.7/5.4 kV DC
Testing voltage:	conductor/conductor: 6500 V 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, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

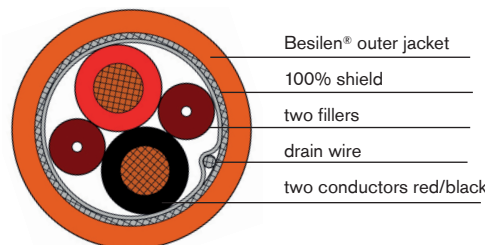
Outstanding features:



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

item no.	mm ²	AWG	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20 °C max. Ω/km
			inch	mm		
▶ 1109006	0.25	24 AWG/2c	0.421	10.7	75	80.0
▶ 1109007	0.34	22 AWG/2c	0.437	11.1	87	58.8
▶ 1109008	0.50	20 AWG/2c	0.461	11.7	95	39.0
▶ 1109001	1.00	18 AWG/2c	0.500	12.7	114	20.0
▶ 1109002	1.50	16 AWG/2c	0.531	13.5	132	13.3
▶ 1109003	2.50	14 AWG/2c	0.575	14.6	159	7.98
▶ 1109004	4.00	12 AWG/2c	0.634	16.1	199	4.95
▶ 1109005	6.00	10 AWG/2c	0.673	17.1	245	3.30

Other dimensions and colors are available on request



Possible on request:
As harnessed measuring cable
with connected lab plugs
to collect the voltage at HV components