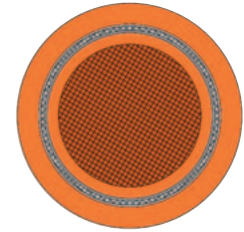


High-Voltage Cables

HV 1000 C - SC

robust, flexible high-voltage single conductor with overall copper screen



Marking for HV 1000 C SC 39100163:

SAB BRÖCKSKES · D-VIERSEN · HV 1000 C - SC 1x25mm² 3910-0163 CE

Application: These high-voltage cables can be used in high-voltage applications e.g. in the fields of agricultural vehicles, construction vehicles and special vehicles. The HV 1000 C - SC is used e.g. between inverters and electric motors.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPFP
Colour code:	orange
Screen:	alu foil and tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TPE-U
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	U ₀ /U max. 0,6/1 kV AC/DC
Testing voltage:	core/screen 5000 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
Temperature range	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
<i>limited time of use:</i>	+125 °C (2000 h)
Low temperature resistance:	-50°C acc. to DIN EN 60811-506
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
MUD resistance:	very good - acc. to IEC 60092-360, IEC 61892-4, NEK TS 606
UV resistance:	acc. to HD 605
Ozone resistance:	acc. to EN 50396
Saltwater resistance:	acc. to UL 1309
Mechanical characteristics:	the main mechanical characteristics accomplished by the outer sheath are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance - high shear strength
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

Outstanding features:



- extremely high mechanical strength
- high protection against environmental influences
- 100% oil resistance acc. to standard
- application range from -50°C to +125°C

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item no.	nominal cross-section mm ²	largest single wire ø mm	outer-ø max. mm	copper figure kg/km	cable weight ≈ kg/km	ohmic resistance at 20°C max. Ω/km
39100140	4,00	0,21	5,8	63,2	75	4,95
39100160	6,00	0,21	6,5	85,5	99	3,30
39100161	10,00	0,21	8,8	134,5	172	1,91
39100162	16,00	0,21	10,2	201,0	246	1,21
39100163	25,00	0,21	12,2	317,2	363	0,78
39100164	35,00	0,21	14,4	427,4	506	0,554
39100165	50,00	0,21	15,8	586,3	671	0,386
39100166	70,00	0,21	18,2	796,7	900	0,227
39100167	95,00	0,21	20,9	1097,7	1212	0,206

Other dimensions and colours are possible on request.

Construction, materials and tests with reference to:

- DIN EN 60228
- DIN EN 50525
- DIN EN 50290-2-30
- DIN EN 50620
- DIN EN 60811

In individual cases, the specific application must be agreed with SAB Bröckskes.



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