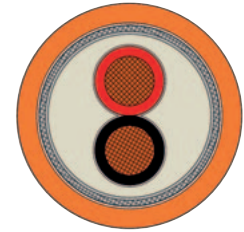


High-Voltage Cables

HV 1000 C - MC

robust, flexible high-voltage multi-core cable with overall copper screen



Marking for HV 1000 C MC 39100240:

SAB BRÖCKSKES · D-VIERSEN · HV 1000 C - MC 2x4,0mm² 3910-0240 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 - MC is used as a connection cable e.g. for cabin heating, the electric compressor, the high-voltage heat pump in electric and hybrid vehicles.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	TPFP
Colour code:	red, black, from 3 cores acc. to HD 308 or acc. to customer request
Stranding:	together
Inner sheath:	Besilen®
Screen:	alu foil and tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TPE-U
Sheath colour:	orange (RAL 2003)

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

Technical Data:

Nominal voltage:	U ₀ /U max. 0,6/1 kV AC/DC
Testing voltage:	core/core 5000 V 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“

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item no.	no. of cores x cross section n x 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
39100225	2 x 2,50	0,26	9,9	93,4	147	7,98
39100325	3 x 2,50	0,26	10,4	117,3	181	7,98
39100240	2 x 4,00	0,31	11,3	133,7	206	4,95
39100340	3 x 4,00	0,31	12,1	171,5	252	4,95
39100260	2 x 6,00	0,31	12,8	175,8	266	3,10
39100360	3 x 6,00	0,31	14,1	261,3	366	3,10
39100460	4 x 6,00	0,31	15,1	325,3	433	3,10
39100560	5 x 6,00	0,31	16,3	393,5	515	3,10

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.