HV 1000 C - MC

Flexible high-voltage multi-conductor cable with overall copper shield



VIERSEN · HV 1000 C - MC 2x4.0mm2 39100240 C



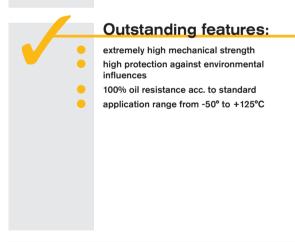




Marking for HV 1000 C MC 39100240: SAB BRÖCKSKES · D-VIERSEN · HV 1000 C · MC 2x4.0mm² 39100240 €

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	
Color code:	from 2 conductors: red, black from 3 conductors: HD 308 or acc. to customer request	
Stranding:	in layers	
Inner jacket:	Besilen®	
Shielding:	alu. foil and tinned copper braiding	
Wrapping:	non-woven tape	
Jacket material:	TPE-U	
Jacket color:	orange (RAL 2003)	



item no.	no. of	oute	outer-ø		ohmic
	conductors	max inch	max mm	weight ≈lbs/mft	resistance at 20°C max. Ω/km
▶ 14 AWG •	2.50 mm ²				
39100225	2	0.390	9.9	99	7.98
39100325	3	0.409	10.4	122	7.98
▶ 12 AWG • 4.0 mm²					
39100240	2	0.445	11.3	138	4.95
39100340	3	0.476	12.1	169	4.95
▶ 10 AWG • 6.00 mm²					
39100260	2	0.504	12.8	179	3.10
39100360	3	0.555	14.1	246	3.10
39100460	4	0.594	15.1	291	3.10
39100560	5	0.642	16.3	346	3.10

Other dimensions and	colors are	available	on request
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	Technical data:			
Nominal voltage:	Uo/U max. 0.6/1 kV AC/DC			
Testing voltage:	conductor/conductor: 5000 V conductor/shielding: 5000 V			
Min. bending radius: fixed installation: free movement:	5 x O.D. 10 x O.D.			
Temperature range: static: flexible: short-term use:	-50/+90°C -40/+90°C +125°C (2,000 h)			
Low temperature resistance:	-50°C acc. to DIN EN 60811-506			
Burning characteristics:	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 60992-360, IEC 61892-4 NEK TS 606			
Sunlight resistance:	acc. to HD 605			
Ozone resistance:	acc. to EN 50396			
Salt water resistance:	acc.to UL 1309			
Mechanical characteristics:	the main mechanical characteristics accomplished by the TPE-U outer jacket are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance - high transverse strength			
Approvals:	CE, RoHS			
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30			

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.

HD 308 Color code:

3c: green/yellow, blue, brown

4c: green/yellow, brown, black, gray

5c: green/yellow, blue, brown, black, gray



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