

HIGH VOLTAGE MEASURING CABLE

HV measuring cable with increased contact protection



Marking for HV measuring cable 38339800:

SAB BRÖCKSKES · D-VIERSEN · HV-Messleitung (2x0,25mm²) ⚡ CE

Application: The high voltage measuring cable is used in the development of electric vehicles where scoop-proof testing & measuring of up to 1800 V DC operating voltage and application in the high voltage environment of electromobility takes place. Examples of applications are HV power electronics, HV batteries, electric motors, inverters, etc. High voltage measuring cables are used on the test benches and in test vehicles.

Construction:

Conductor:	tinned copper strands, extra fine wires
Insulation:	FEP
Colour code:	black and red
Stranding:	in layers with tinned copper drain wire, AWG 24
Screen:	alu foil and tinned copper braiding
Inner sheath:	FEP, colour: sky blue
Sheath material:	PUR
Sheath colour:	orange with black vertical stripes

Outstanding features:



- temperature resistance up to +150 °C (up to 3000 hours)
- high flexibility
- high abrasion resistance
- easy harnessing

Technical data:

Contact protection:	1000 V DC over the blue inner sheath
Testing voltage:	5000 V AC over the blue inner sheath
Operating voltage:	core/core 1800 V DC
Testing voltage:	core/core 5000 V AC core/screen 5000 V AC
Min. bending radius	
fixed laying	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	-50/+125 °C
flexible application:	-40/+125 °C +150 °C (up to 3000 h)
Temperature range of cores:	up to +180 °C (short-term use up to +205 °C)
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
38339800	2 x 0,25	0,11	6,5	21,3	61
38339805	4 x 0,25	0,11	7,2	28,1	79
38339801	2 x 0,50	0,16	7,1	28,1	74
38339802	2 x 1,00	0,16	7,8	42,5	94
38339803	2 x 1,50	0,16	8,4	55,8	113
38339813	4 x 1,50	0,16	9,4	88,5	156

Other dimensions and colours are possible on request.



Possible on request:

- also possible as harnessed measuring cable with connected lab plugs to collect the tension at HV components.