

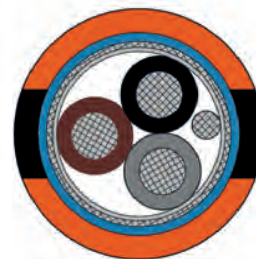
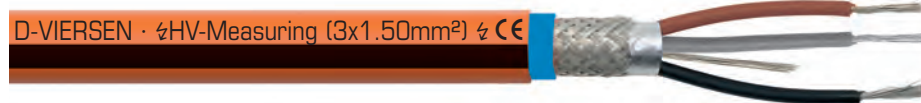
High-Voltage Cables for Electric Vehicles

HV measuring cable (AC)

High-voltage multi-conductor shielded cable for AC voltage measurement, scoop-proof



D-VIERSEN · HV-Measuring (3x1.50mm²) ⚡ CE



Marking for HV connecting cable 38339813:

SAB BRÖCKSKES · D-VIERSEN · HV-Messleitung (3x1.50mm²) ⚡ CE

Application: The high voltage measuring cable is used in the development of electric vehicles where scoop-proof testing and measuring of up to 1800 V DC operating voltage and application in the HV environment of electromobility take 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 wire
Insulation:	FEP
Color code:	brown, black, gray
Stranding:	in layers with tinned copper drain wire, 24 AWG
Shielding:	alu. foil and tinned copper braiding
Inner jacket:	FEP - blue acc. to RAL 5024
Jacket material:	PUR
Jacket color:	orange with black vertical stripes

Outstanding features:

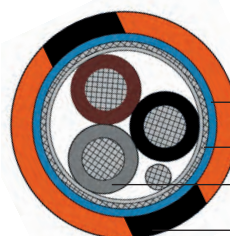
- temperature resistance up to +150°C (up to 3,000 hours)
- high flexibility
- high abrasion resistance
- easy harnessing

Technical data:

Scoop-proof testing voltage:	1000 V DC over the blue inner jacket 5000 V AC over the blue inner jacket
Operating voltage:	conductor/conductor: 1800 V DC conductor/conductor: 1000 V AC
Testing voltage:	conductor/conductor: 5000 V AC conductor/shielding: 5000 V AC
Min. bending radius:	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
Temperature range:	
static:	-50/+125°C
flexible:	-40/+125°C
short-term use:	+150°C (3,000 h)
Temperature range of conductors:	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
Approvals:	CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	AWG/c	outer-ø inch	outer-ø mm	cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
▶ 38339820	24 AWG/3c	0.268	6.8	44	80.0
▶ 38339816	22 AWG/3c	0.276	7.0	48	58.8
▶ 38339815	20 AWG/3c	0.291	7.4	54	40.1
▶ 38339814	18 AWG/3c	0.319	8.1	71	20.0
▶ 38339813	16 AWG/3c	0.346	8.8	87	13.7

Other dimensions and colors are available on request



outer jacket and HV identification

inner jacket (double insulation and wear indicator)

100% shield

conductors

measuring cable identification



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