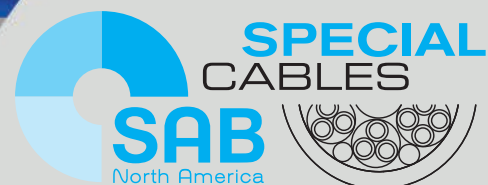


CABLES FOR E-MOBILITY



www.sabcable.com
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About Us

SAB North America is a focused supplier for the agriculture, automation, aerospace, medical, high temperature, and robotics industries, providing cable solutions that meet, exceed, and set new standards in the flexible cable market. In addition to flexible cable products, we offer an extensive inventory of high-quality cable accessories, including cord grips, grounding glands and other accessories that complement our flexible control and automation cables.

Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems. Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

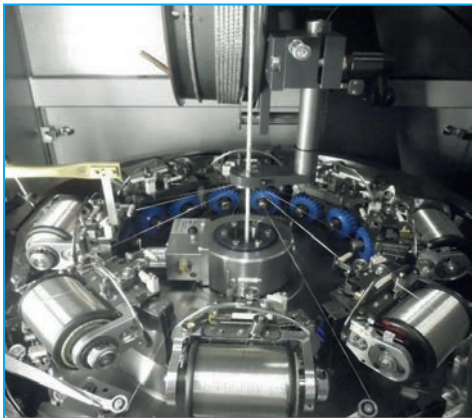
- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



SAB Bröckskes has developed DC charging cables for the different fields of application. Our strength is the design of special solutions according to your individual application. Therefore, SAB is able to fulfill the different requirements. It doesn't matter if you need highly flexible cables, reeling cables or those that are suitable for highly flexible cable track.

Whether you're a valued distribution partner, a manufacturer, an automation house, an integrator, or a contractor, rest assured that our cables are reliable to maximize production efficiencies. SAB brings world class performance & 75 years of ingenuity to the table.

SAB's level of speed and service as a supplier is unmatched. SAB lives up to its name in not only flexible cable but also flexible manufacturing.



SAB Advantage...We make it Easy

- Engineering & technical assistance
- Cut to length with no cut charges
- Prepaid freight within US for orders over \$2,500
- Specialty cable designs (1500 ft minimum)
- No minimum on orders from stock
- Free drop shipments (no surcharges)
- 24-hour shipments from stock
- Cord Grips for securing and grounding cables

Cables for E-mobility

Production possibilities

Flexible cables and wires "Made in Germany"

As a leading manufacturer we develop and produce cables for industrial purposes.

Our wide range of materials offer a lot of possibilities for your individual product requirement.

The following survey shows an extract of our production possibilities:

Conductor Materials:

- ✓ bare copper
- ✓ tinned copper
- ✓ silver plated copper
- ✓ nickel plated copper
- ✓ nickel
- ✓ nickel pure
- ✓ compensating cable alloys

Insulation and Jacketing Materials:

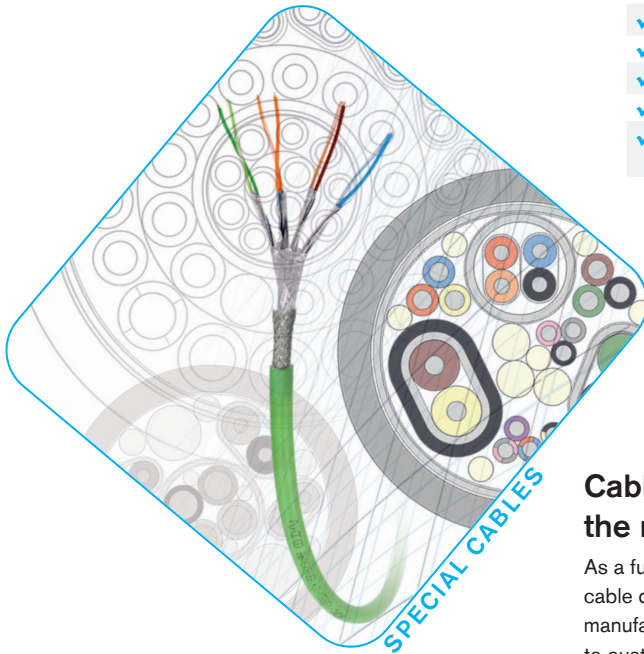
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

Temperature Ranges:

- Thermoplastic Elastomers
- ✓ -50°C up to +145°C
- SABIX®
- ✓ -50°C up to +220°C
- Besilen® - Silicone
- ✓ -40°C up to +220°C
- FEP, ETFE, PFA
- ✓ -90°C up to +260°C
- Fiberglass
- ✓ up to +600°C

Conductors:

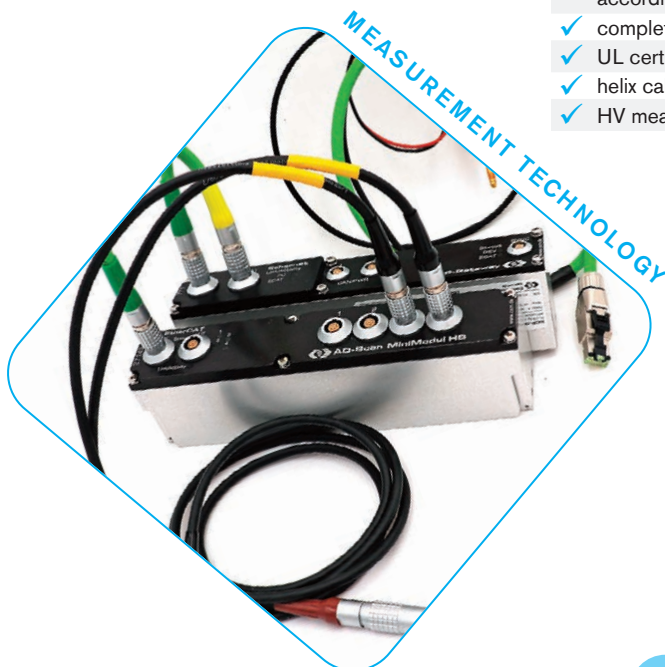
- ✓ cross sections 0.055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors



Cable assemblies directly from the manufacturer SAB:

As a full service partner, we are able to offer cable design and production as well as the manufacturing of cable assemblies according to customer's request. Please trust on our experience for decades in the treatment of cables and connectors.

- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring assemblies



Measuring technology for industrial applications

Manufacturer of temperature sensors for industrial applications with 75 years of experience!

- ✓ mineral insulated thermocouples
- ✓ mineral insulated resistance thermometers
- ✓ temperature sensors
- ✓ mobile high voltage measuring technology
- ✓ temperature sensors for vehicle testing

Cables for E-mobility

Development and production

SAB BRÖCKSKES – your cable specialist for E-mobility

SAB Bröckskes has developed DC charging cables for different fields of application. Our strength is the design of special solutions according to your individual application. Therefore, **SAB** is able to fulfill the different requirements.

It doesn't matter if you need highly flexible cables, reeling cables or those that are suitable for highly flexible cable track applications. Please contact us so that we can develop the customized solution for you.



Highly flexible DC charging cable



Construction:

Conductor:	bare copper strands, fine wires acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Color code:	0.75mm ² : orange, blue, white, purple, brown, grey 25.0mm ² : green-yellow 35.0mm ² : black, red
Stranding:	0.75mm ² : conductors twisted to pairs, pairs stranded in layers
Wrapping:	non-woven tape
Screen:	0.75 mm ² : tinned copper braiding
Inner jacketing:	0.75 mm ² : PUR, black (RAL 9005)
Stranding:	all elements stranded in layers, filler in center and interstices
Wrapping:	non-woven tape
Jacket material:	PUR
Jacket color:	black (RAL 9005)
Marking:	SAB BRÖCKSKES · D-VIERSEN · DC-Ladekabel 2x35.00mm ² +1G25.0mm ² +(3x2x0.75 mm ²)C 0390-9594 CE

Outstanding features:



- high tensile strength
- high tear strength
- high abrasion resistance
- high notch resistance
- high shear strength

item no.	dimensions	outer-ø ca.		cable weight ≈lbs/mft
		inch	mm	
▶ 0390959	2 x 35.0 mm ² + 1 x 25.0 mm ² + (3 x 2 x 0.75 mm ²) C	1.010	25.6	857

Construction:

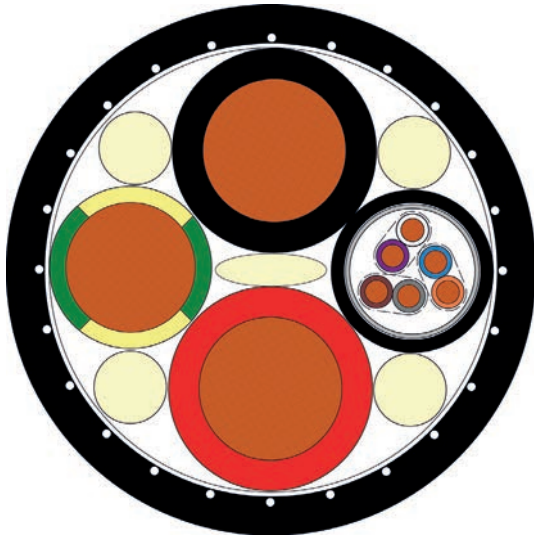
Nominal voltage	Testing voltage at 50 Hz	Temperature range
0.75 mm ² : U ₀ /U 300/500 V DC 25.0 mm ² + 35.0 mm ² : U ₀ /U 0.6/1 kV DC	0.75 mm ² conductor/conductor: 2000 V AC 0.75 mm ² conductor/shielding: 2000 V AC 25.0 mm ² + 35.0 mm ² conductor/conductor: 4000 V AC	static: -50/+90°C flexible: -40/+90°C in case of short circuit: +160°C (max 5 sec.)

Min. bending radius	Fire performance	Halogen-free	Hydrolysis resistance
fixed installation: 5 x O.D. free movement: 7.5 x O.D.	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to EN 50363-10-2

Ozone resistance	Sunlight resistance	Weather resistance	Low temperature flexibility
acc. to EN 50396	acc. to HD 605	very good	very good

Oil resistance	Chemical resistance	Absence of harmful substances
very good - TPU acc. to EN 50363-10-2 (tested acc. to EN 60811-404)	good against acids, alkalines, solvents, hydraulic liquids, etc.	acc. to RoHS directive of the European Union

Reeling DC charging cable



Construction:

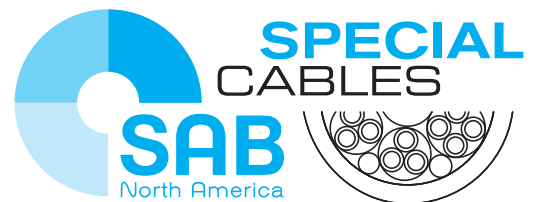
Conductor:	bare copper strands
Insulation:	TPE
Color code:	0.75 mm ² : white, violet, orange, blue, brown, grey 25.0 mm ² : green-yellow 50.0 mm ² : red, black
Stranding:	0.75mm ² : cores twisted to pairs, pairs stranded in layers
Wrapping:	non-woven tape
Inner jacket:	PUR, black (RAL 9005)
Stranding:	all elements stranded in layers, filler in centre and interstices
Wrapping:	non-woven tape
Supporting screen:	high-tech yarn
Jacket material:	PUR
Jacket color:	black (RAL 9005)

dimensions	outer-ø ca.		cable weight ≈lbs/mft
	inch	mm	
▶ 2 x 35.0 mm ² + 1 x 25.0 mm ² + (3 x 2 x 0.75 mm ²) C	1.102	28.0	1078

Construction:

Nominal voltage	Testing voltage	Temperature range
U ₀ /U 0.6/1kV	conductor/conductor 4000 V	static: -50/+90°C flexible: -40/+90°C

Min. bending radius	Tensile strength	Absence of harmful substances
fixed installation: 5 x O.D. for repeated winding action: 7.5 x O.D.	suspension unit max. 4000 N	acc. to RoHS directive of the European Union



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