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TRADITIONAL FAMILY BUSINESS SINCE 1947



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Family business in the third generation

 $75 \ \text{years of experience in cable and wire manufacturing as well as in temperature measurement technology turned a one$ man business into a company with more than 550 employees. We prove our strength every year with more than 1500special products according to customers' requirements. Each product is a new challenge for our creative technical team. We atSAB see ourselves as a manufacturer and a service provider – in the sense of true partnership and the greatest possible customerorientation.

Today, the quality of our products is known and appreciated in more than 100 countries around the world. In all product ranges, we are certified according to DIN EN ISO 9001. Furthermore, we have implemented an environmental management system for our company according to DIN EN ISO 14001, an occupational health and safety management system according to NLF/ILO-OSH and DIN ISO 45001, and an energy management system according to DIN EN ISO 50001.

And also for the future, our slogan is: "WE GO FORWARD!"

FOUNDED:	1947 by Peter Bröckskes sen. an independent, medium-sized company.
CEO:	Peter Bröckskes and Sabine Bröckskes-Wetten
PLANT/LOCATION:	In Viersen (Lower Rhine) 110.000 m ² company site.
	Own manufacturing from copper conductor to outer sheath.
	VDE approved burnchamber and laboratory within the company.
EMPLOYEES/WORKERS:	approx. 430 at the plant in Viersen, 550 worldwide
YEARLY SALES:	over 134 Mio. € worldwide
PRODUCTS:	Special Cables
	Measurement Technology
	Cable Harnessing
CERTIFICATES AND APPROVALS: DNV ABS bsi. DNV ABS bsi. CC EAL CC CC CC CC CC CC CC CC CC CC CC CC CC	Quality management system acc. to DIN EN ISO 9001 for every manufacturing field Environmental management system acc. to DIN EN ISO 14001 Occupational health and safety management acc. to NLF/ILO-OSH and DIN ISO 45001 Energy management system acc. to DIN EN ISO 50001



Development and production

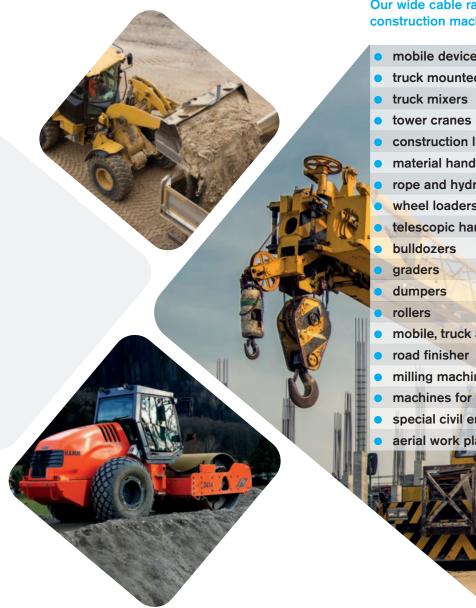
SAB BRÖCKSKES – your specialist for cables in construction machines

The requirements on construction machines whether road finisher, tunnel or mine vehicles, earth movers or cranes regarding automatic functioning, data networking and electronic drive systems are growing. SAB is a competent partner for development and production of cables that make construction machines safer and more efficient. We can trust on already existing products for data and power transmission or design together with our customer tailor made solutions for hybrid cables acc. to his special applications. You can trust on our 75 years of experience in cable construction to create the best connection for you.

Flexible, robust, efficient and appropriate for your individual requirements.



Please contact us directly: info@sab-cable.com



Our wide cable range is used in numerous construction machines as for example:

- mobile devices for material processing
- truck mounted concrete pumps
- construction lifts
- material handlers
- rope and hydraulic excavators
- wheel loaders
- telescopic handlers
- mobile, truck and crawler cranes
- milling machines
- machines for tunnel and mine advance
- special civil engineering equipment
- aerial work platforms

Production possibilities

SPECIA

Flexible cables and wires "Made in Germany"

As a leading manufacturer we develop and produce cables for industrial purposes. Our wide range of materials offers 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

Polyurethane TPE SABIX[®] (zero halogen)

Polyethylene

Polypropylene

- Besilen[®] Silicone
- FEP, ETFE, PFA, PTFE
- PI foil

PVC

Fibreglass

Conductors:

cross sections 0,055 - 300 mm²

Insulation and Jacketing Materials:

- unshielded and shielded
- over 100 conductors

Cable harnessing directly from the manufacturer SAB:

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

cable harness

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

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



SABIX* ✓-50°C up to +220°C Besilen[®] - Silicone ✓-40°C up to +220°C FEP, ETFE, PFA ✓-90°C up to +260°C Fibreglass ✓ up to +600°C

CABLE HARNESSING

Temperature Ranges:

Thermoplastic Elastomers

✓-50°C up to +145°C

Product overview

	Applications	Outstanding features
Cable Track Cables	The S 200 series is the allrounder for demanding environments and permanently flexible applications as for example: crane technology articulation points telescopic boom aerial work platforms	 oil resistant, cross-waterproof travel > 10 m is possible high abrasion resistance small bending radius and small outer diameter unprotected outdoor installation
Reeling Cables	Application in spring and motor drums as for example: construction lifts crane boom mobile cranes material handlers	 extremely high winding and unwinding strength small outer diameter small cable weight suitable for offshore applications high tensile strength high notch resistance
Bus and Ethernet Cables	CAN Bus, Profibus and Ethernet cables for machine communication as for example: advanced driver-assistance systems autonomous driving monitoring systems	 suitable for cable tracks suitable for mechanical stress hybrid cables possible
ETFE, FEP, PFA Strands	Wiring strands for high temperature requirements and chemical resistances as for example: ✓ road paver ✓ cold milling machines ✓ earthmoving machines	 very good temperature resistance flexibility at low temperatures good electrical insulating characteristics very good resistance against solvents very good resistance against chemicals
Exploration Line	Control cables for the unprotected application with high mechanical stress as for example:	 UV- resistance ozone resistance saltwater resistance large temperature range
High Voltage Cables	HV 1000 C robust, flexible high-voltage cable with overall copper screen for use in: ✓ electric construction machines	 weather resistant flexible at low temperatures heat resistant flame retardant and self-extinguishing oil resistant
Special and Hybrid Cables	Cables according to the special requirements of our customers. Can be realized for all construction machines	 suitable construction for different applications acc. to your requirements among others a combination of data and control elements after sales protection marking acc. to customer specification core and sheath colours acc. to customer request

Detailed data sheets you will find our homepage under: www.sab-cable.com/cables-wires-harnessing-temperature-measurement/industrial-cables-and-wires/cables-for-construction-machines.html







SAB Bröckskes GmbH & Co. KG Grefrather Str. 204 - 212 b 41749 Viersen · GERMANY Tel.: +49/2162/898-0 Fax: +49/2162/898-101 www.sab-cable.com info@sab-cable.com