# CABLES FOR AGRICULTURAL TECHNOLOGY



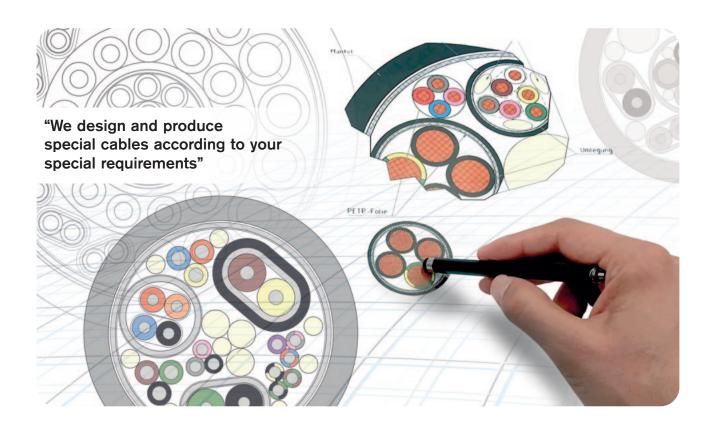


TRADITIONAL FAMILY BUSINESS

SINCE 1947

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SAB W

# Family business in the third generation

75 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 1500 special products according to customers' requirements. Each product is a new challenge for our creative technical team. We at SAB see ourselves as a manufacturer and a service provider – in the sense of true partnership and the greatest possible customer orientation.

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 <sup>2</sup> 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:  TO THE COMMENT OF THE	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



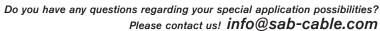


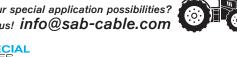
# **Development and production**

#### SAB BRÖCKSKES – your cable specialist for agricultural vehicles

The control of machines and appliances in agricultural technology set high demands on communication interfaces and bus systems. Rough environmental conditions as for example caused by weather conditions, pollution, ammonia, or microbes demand robust solutions for a reliable application. Cables are especially exposed to these adverse environmental conditions. For the laying in tractors, working machines and accessory equipment SAB offers reliable ISOBUS cables and systems according to ISO 11783-2. Besides the usual dimensions and sections SAB also offers customer specific constructions even for small production quantities from 100 m, prototypes, and samples.





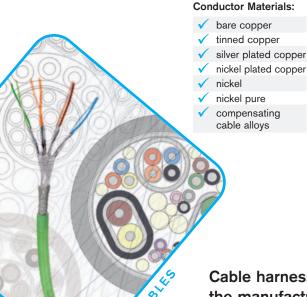


# **Production possibilities**

#### Flexible cables and wires "Made in Germany"

As a leading manufacturer we develop and produce cables for industrial purposes. Our wide range of materials offers a lot of possibilities for your individual product requirement.

The following survey shows an extract of our production possibilities:



#### Insulation and Jacketing Materials:

- Polyethylene
- Polypropylene
  - Polyurethane

  - SABIX® (zero halogen)
  - Besilen® Silicone
  - FEP, ETFE, PFA, PTFE
  - PI foil
  - Fibreglass

#### Temperature Ranges:

Thermoplastic Elastomers

√-50°C up to +145°C

√-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

#### Conductors:

cross sections 0,055 - 300 mm<sup>2</sup>

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 TECHNOLOGY 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

Do you have any questions regarding your special application possibilities? Please contact us! info@sab-cable.com





## **Product overview**

#### **Applications**

#### **Outstanding features**

#### Control and **Connection Cables**

motors / drives

flexible and robust

- cable tracks / robots resistant against oils, etc. and many more
  - + halogen-free

- - **ETFE, FEP, PFA Strands**
- tractor electronics
- lamps/lights
- and many more

- **±** up to -90°C / +250°C
- tesistant against oils, etc.
- **good insulation characteristics**

#### Bus and **Ethernet Cables**

- **Smart Farming**
- ISOBUS / PROFIBUS / CAN-BUS
- Cat. 5 / Cat. 6 / Cat. 7 / SPE
- USB 2.0 / 3.0

- + flexible and robust
- + resistant against oils, etc.
- + halogen-free
- + Hybrid cables possible

#### Special and **Hybrid Cables**



- random (cable development according to customer's request for example with integrated bus element)
- SAB as expert for the development of special cables
- + exclusive right on special cables (after sales protection)

#### **Harnessed Cables**



- measuring and testing technology
- and many more

- + harnessed / moulded
- Cables and cable harness from a single source

Detailed data sheets you will find on our homepage:

https://www.sab-cable.com/cables-wires-harnessing-temperature-measurement/cables-for-agricultural-technology.html







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