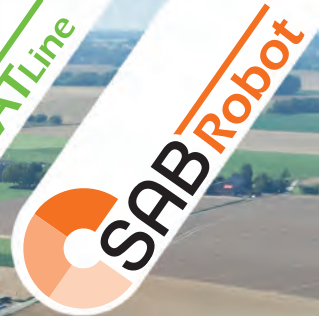
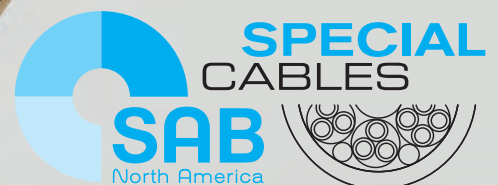


# SAB BRÖCKSKES MANUFACTURING, QUALITY & TESTING



[www.sabcable.com](http://www.sabcable.com)  
866-722-2974 ■ [info@sabcable.com](mailto:info@sabcable.com)





# 75 Years of Manufacturing Expertise

## About Us



SAB Bröckskes is a global cable manufacturer with over 75 years of experience. Each day, we ship high-quality cables and temperature measurement solutions to more than 50 countries around the world. Located in Fairfield, NJ, SAB North America is the US Headquarters servicing the needs for the North American market whether it is new construction, OEM manufacturing, or MRO requirements.

SAB is a focused supplier for the automation, aerospace, medical, high temperature, and robotics industries, providing cable and thermocouple 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 for engineered solutions that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems.



Equipment OEMs must have complete certainty that the cables they choose are suitable for their design. SAB North America provides a wide variety of safe, reliable flexible cables for use in industrial automation machinery and manufacturing. SAB has more than 75 years of experience manufacturing quality, rugged cables for challenging applications so that you can be sure that SAB cable is a safe and reliable addition to your equipment.

Whether you're a valued distribution partner, an automation house, an integrator, or a contractor, rest assured that our cables, cable assemblies, and temperature measurement tools 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



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Peter Bröckske Sr.



Sabine Bröckskes-Wetten



Peter Bröckskes





# PRODUCTION

## CABLE MANUFACTURING

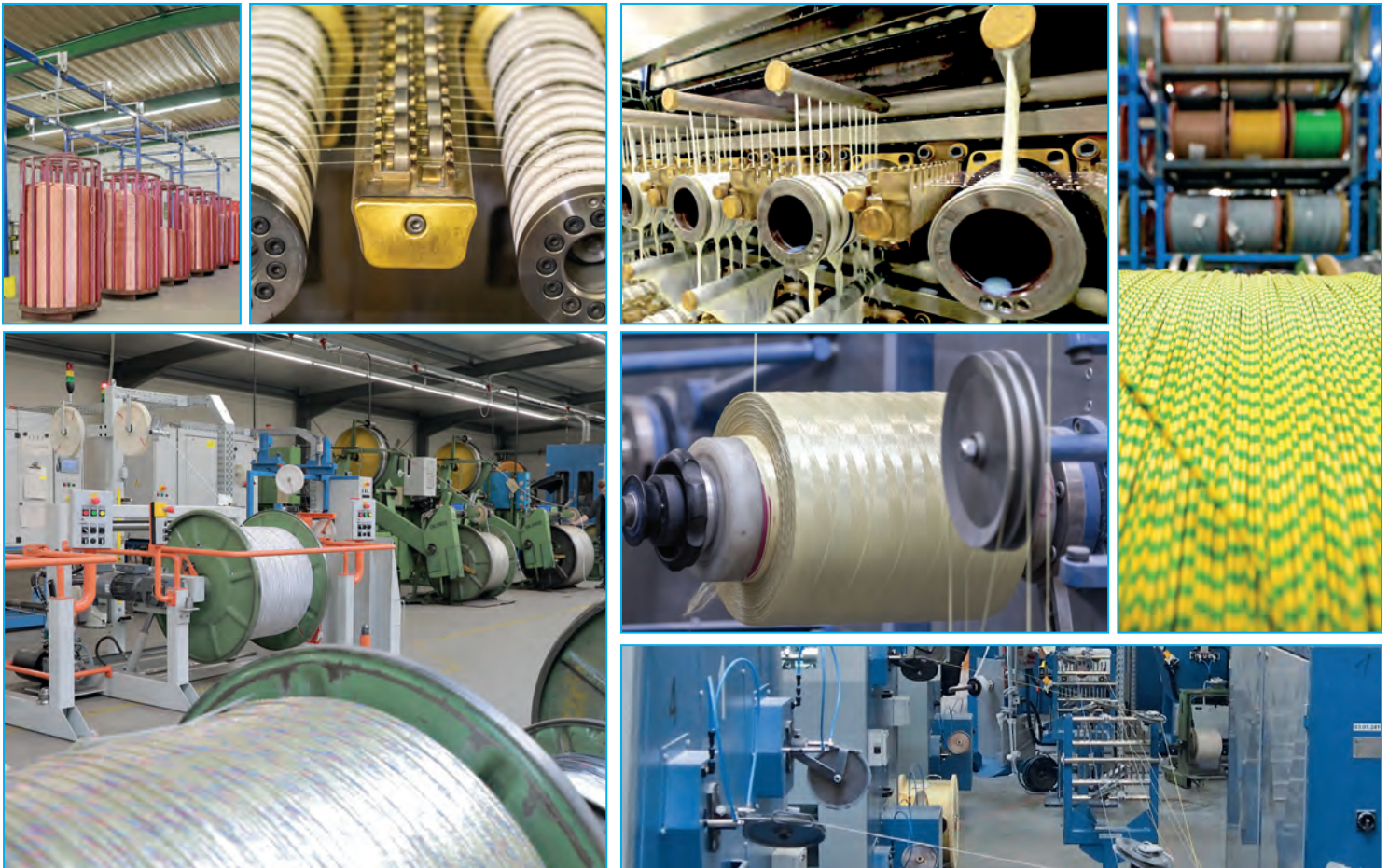
Everything starts with copper. We draw our own copper so we have complete control from the very beginning of production through extruding the overall jacket. With over 550 experienced employees worldwide, we develop, produce and market more than 1,500 special solutions annually. These, as well as our standard cables and thermocouples have been thoroughly tested in our test laboratory based on DIN norms. This gives you an indestructible product, because:



### IT DEPENDS ON THE RIGHT CONNECTION!

- *Over 75 years experience as a cable specialist*
- *Outstanding customer service*
- *Customized solutions according to your special needs*
- *Excellent quality through continuous quality control*
- *Latest innovations in the cable and temperature measurement technology in the industry*

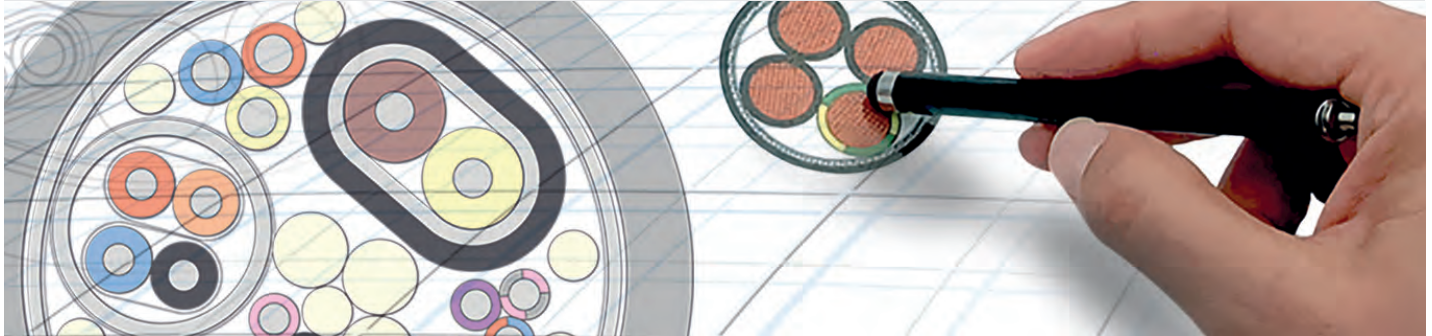
We develop and produce high quality cables and wires as well as special solutions that are manufactured according to your individual requirements and for your application. If you do not find the appropriate cable in our catalog, please contact us. We will find the solution for you.





## Specialty flexible cables built for specific needs and approvals for demanding applications.

Order minimums are as low as 1,500 feet, and we can test your unique product in our lab. No matter your application's requirements, SAB Special Cables expand the possibilities of standard cables and address your design challenges.



### Conductor Materials

- Bare copper
- Tinned copper
- Silver plated copper
- Nickel plated copper
- Nickel
- Nickel pure
- Compensating cable alloys

### Conductor Sizes

- 0.14 mm<sup>2</sup> - 300 mm<sup>2</sup>  
(26 AWG to 500 MCM)
- variety of stranding styles

### Insulation and Jacketing Materials

- PVC (many varieties)
- Polyethylene
- Polypropylene
- TPE
- Fiberglass
- Besilen®/Silicone
- Pi foil
- FEP, ETFE, PFA, PTFE
- SABIX® zero halogen
- Polyurethane

### Conductor Count Ranges

- unshielded - up to 125 conductors
- shielded - up to 100 conductors

### Temperature Ranges (based on material)

- Thermoplastic Elastomers -50°C up to +145°C
- Besilen®/Silicone -40°C up to +220°C
- FEP, ETFE, PFA, PTFE -90°C up to +260°C
- Halogen-free -50°C up to +220°C
- Fiberglass up to +600°C

### Shielding and Braiding Materials

- Bare copper
- Tinned copper
- Galvanized steel
- Stainless steel
- Aluminum foil
- Fiberglass
- Aramid

### Approvals

- UL, CSA, CE, EAC, VDE, HAR, IEC, EN, ISO, DNV, LR, ABS, RINA, BSI, RoHS





# PRODUCTION

## MEASUREMENT TECHNOLOGY & CABLE HARNESSING



For more than 75 years, SAB has designed individual temperature measurement solutions for industrial applications. Our customers not only benefit from the wide range of our standard temperature sensors but can also choose from a variety of special sensors developed and produced by SAB Bröckskes. SAB's product range includes cable assemblies. We provide customers with a complete solution consisting of cables and plugs. We are continuously expanding our cable assembly production. Therefore, we are able to offer a special solution to meet our customers' requirements.

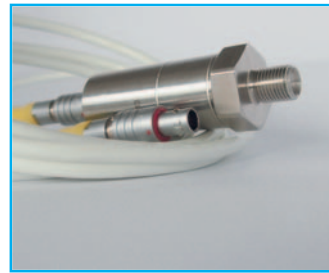
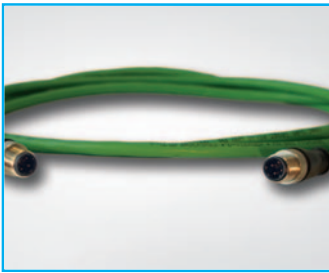




## Cable assemblies directly from the manufacturer SAB:

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 decades of experience in the treatment of cables and connectors.

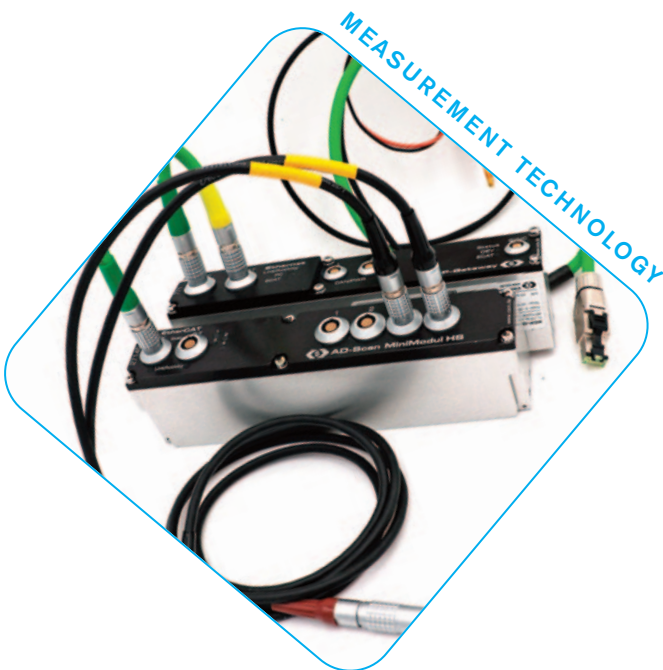
- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix (spiral) cables
- ✓ HV measuring assemblies



## 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



# AUDITED / TESTED / APPROVED

## QUALITY ASSURANCE

When you need a cable, there's a good chance it will have to stand up to harsh conditions. From frequent bending and flexing in moving automated machinery to exposure to liquids and temperature extremes, there are many potential causes of cable failure that can lead to equipment downtime and lost productivity. That's why your cable selection considerations should include your supplier's testing capabilities. When you partner with a cable manufacturer whose products are tested extensively, your cables will provide a longer service life to keep your equipment running.

SAB has a dedicated test lab, extensive test capabilities and expertise to both test standard cables and perform special testing when necessary, giving you the peace of mind of knowing cable failure won't stand in the way of machine productivity. We test to international standards.





## Quality

SAB strives to provide our customers with the best performing products. Therefore, the highest quality standards are followed throughout the production process. For this purpose, we introduced a quality management system according to DIN EN ISO 9001 in 1996. The measurable parameters allow for the identification of potential improvement. In addition, our quality is confirmed by audits.



## Sustainable Environmental and Climate Protection

In 2005, we introduced an environmental management system for our company in accordance with DIN EN ISO 14001. In both the development of new products and the operation of production facilities, we ensure that our impact on the environment and climate are minimal.

# TECHNOLOGY ENVIRONMENT ETHICS

As worldwide operating company, SAB Bröckses is aware of our responsibility to humanity and the environment. In the 1990s, the company started focusing on the environment, sustainability, and recycling in order to help lower our environmental impact for future generations.

## Energy Management

We handle our resources carefully and try to continuously improve our processes and procedures. Since 2011, we have a certified DIN EN ISO 50001 energy management system in place.



## Resource Efficiency

We evaluate all raw materials, methods of processing, and final products regarding their danger for human life and impact on the environment. SAB uses the best waste disposal available based on the material type. In our own facilities, we have optimized energy consumption of machines and heating systems. This is verified by regular by internal audits.

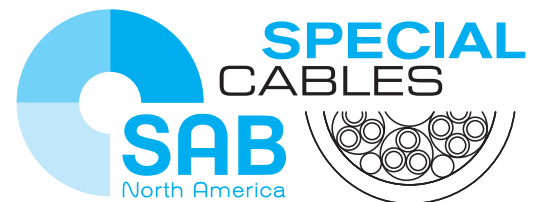


## Research and Development

With intensive research and development as well as testing, we ensure that all our products meet industry standards and customer requirements. New products are the result of close communication between customer, sales and engineering department, raw material suppliers, and our laboratory staff. Our company utilizes test equipment required by the VDE as well as of numerous other international approvals.







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