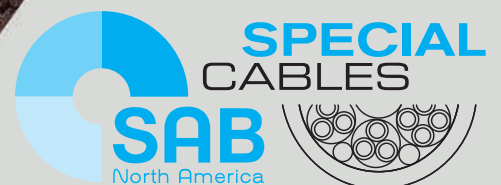


# CABLES

# FOR CONSTRUCTION MACHINERY



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# SAB North America

## About Us



SAB North America is a focused supplier for the automation, aerospace, construction, 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:

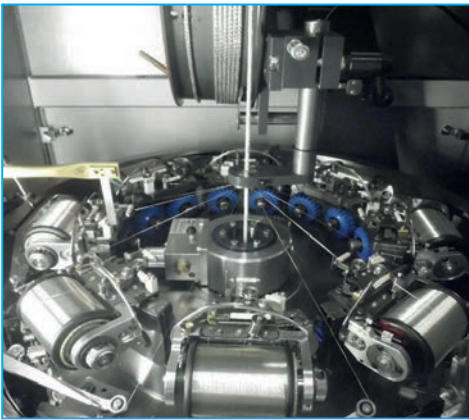
- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



Our wide cable range is used in numerous construction machines for example: truck-mounted concrete pumps, tower cranes, construction hoists, cable and hydraulic excavators, bulldozers and many more.

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 & Accessories for Construction Machinery

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*Do you have any questions regarding your special application possibilities?  
Please contact us at [info@sabcable.com](mailto:info@sabcable.com)*



# Cables & Accessories for Construction Machinery

## Development and production

### SAB – your cable specialist for construction machinery

The requirements for construction machinery like road finishers, tunnel or mine vehicles, earth movers or cranes with 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 have many existing products for data and power transmission that may fit your requirements or we can design a tailor made hybrid cable solution to fit the special application.

You can trust our 75 years of experience in cable construction to create the best connection for you.

#### Our products are used in the a variety of construction machines:

- Mobile devices for material processing
- Truck mounted concrete pumps
- Truck mixers
- Tower cranes
- Construction lifts
- Material handlers
- Rope and hydraulic excavators
- Wheel loaders
- Telescopic handlers
- Bulldozers
- Graders
- Dumpers
- Rollers
- Mobile, truck and crawler cranes
- Road finisher
- Milling machines
- Machines for tunnel and mine digging
- Special civil engineering equipment
- Aerial work platforms





# Cables & Accessories for Construction Machinery

## 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:

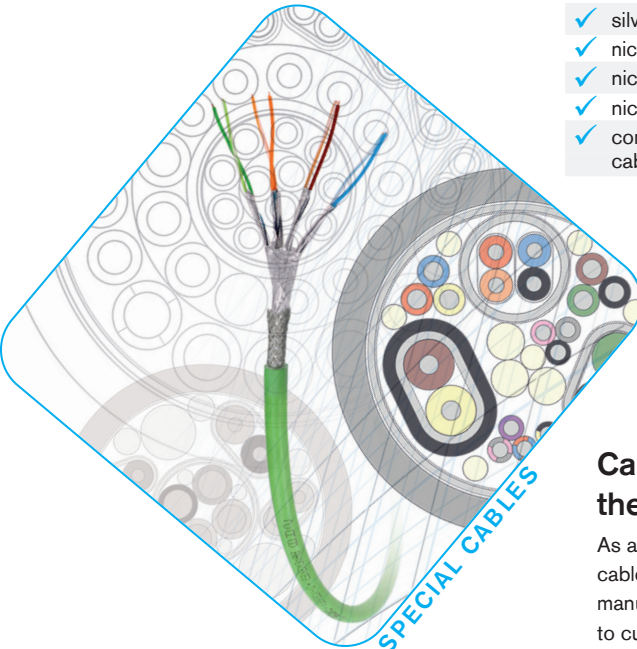
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

#### 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:

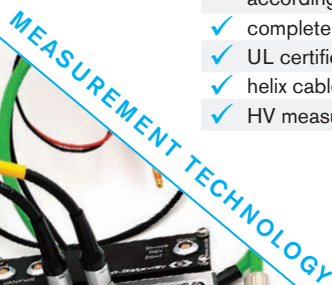
- ✓ cross sections 0.055 - 300 mm<sup>2</sup>
- ✓ unshielded and shielded over 100 conductors



### 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 & Accessories for Construction Machinery

## Product Overview

### Cable Track Cables



#### Applications

The S 200 series can be used in demanding environments and permanently flexible applications for use in:

- ✓ crane technology
- ✓ articulation points
- ✓ telescopic boom
- ✓ aerial work platforms

#### Outstanding features

- ✓ 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 for use in:

- ✓ construction lifts
- ✓ crane booms
- ✓ 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

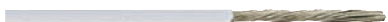


CAN Bus, Profibus and Ethernet cables for machine communication for use in:

- ✓ 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 for use in:

- ✓ 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



# Cables & Accessories for Construction Machinery

## Product Overview

### Exploration Cables



#### Applications

Control cables for unprotected application with high mechanical stress for use in:

- ✓ drilling rigs
- ✓ pump systems
- ✓ compressors

#### Outstanding features

- ✓ HUV- resistance
- ✓ ozone resistance
- ✓ saltwater resistance
- ✓ large temperature range

### High Voltage Cables



Besilen® (silicone) insulated connection cables for use in:

- ✓ E-Mobility HV test benches
- ✓ all-electric construction machinery

- ✓ weather resistant
- ✓ flexible at low temperatures
- ✓ heat resistant
- ✓ flame retardant and self-extinguishing
- ✓ very easy laying

### Special and Hybrid Cables



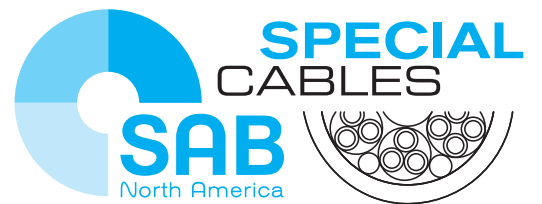
Cables according to the special requirements of our customers.

- ✓ can be realized for all construction machines

- ✓ suitable construction for different applications according to your requirements
- ✓ many options including a combination of data and control elements
- ✓ marking according to customer specification
- ✓ conductor and jacket colors according to customer request







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