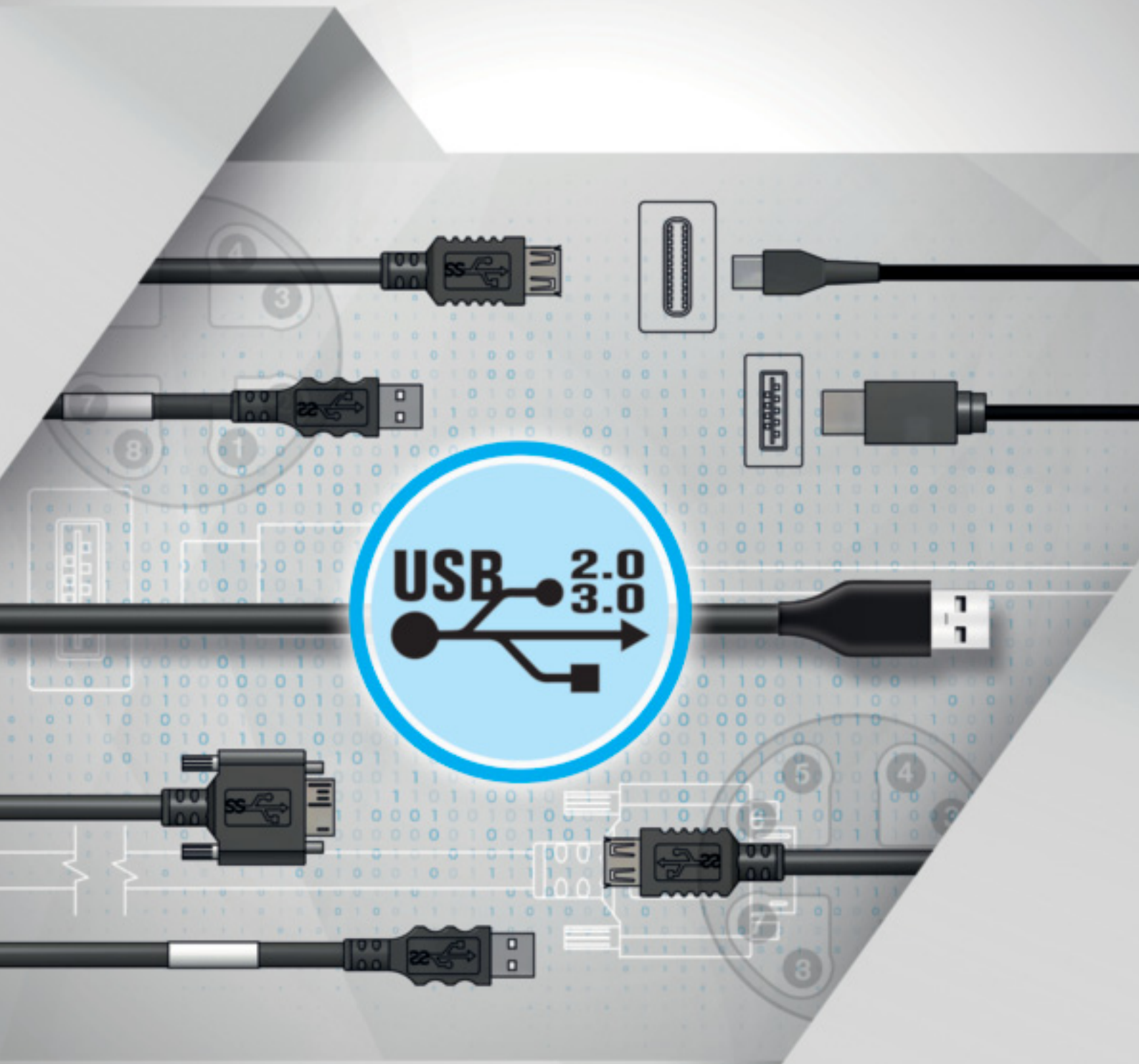
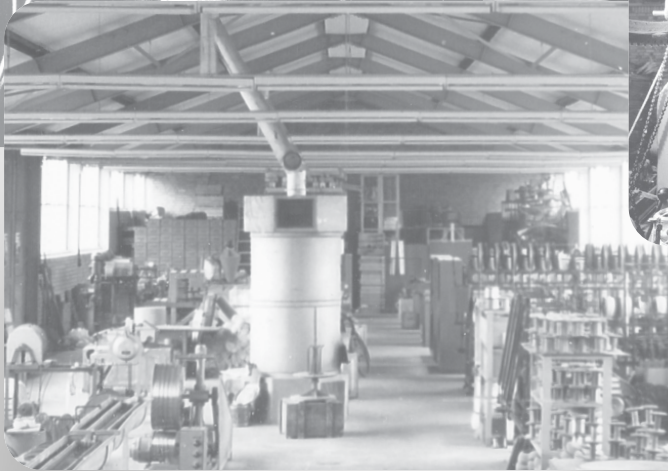
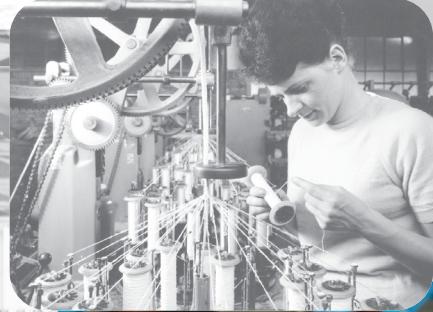


# HARNESSED USB 3.0 CABLES





TRADITIONAL  
FAMILY BUSINESS  
SINCE 1947

## 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:	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





# Harnessed USB 3.0 cables

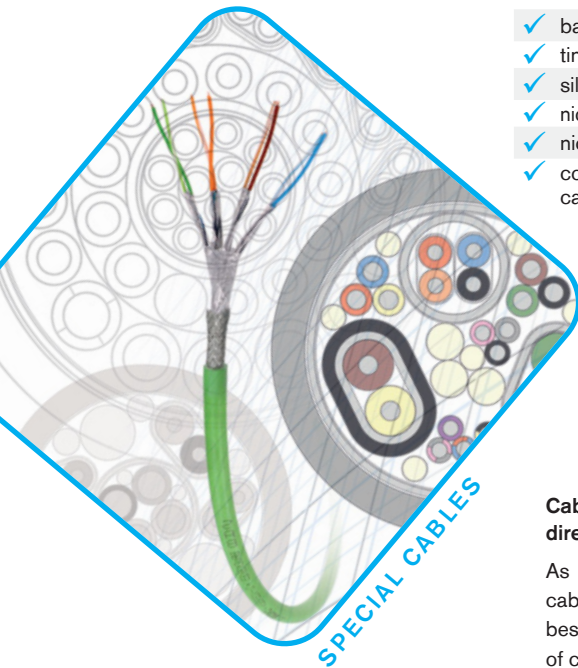
## Production possibilities

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

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

Our great variety of materials offer a wide range of possibilities to manufacture your requested product.

The following survey shows an extract from our production range:



#### Conductor Materials:

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

#### Insulation and Jacketing Materials:

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

#### Temperature Ranges:

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

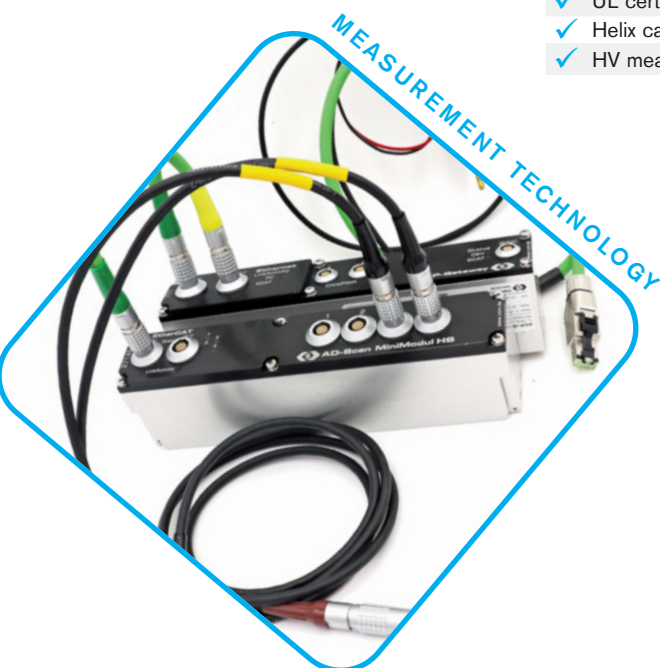
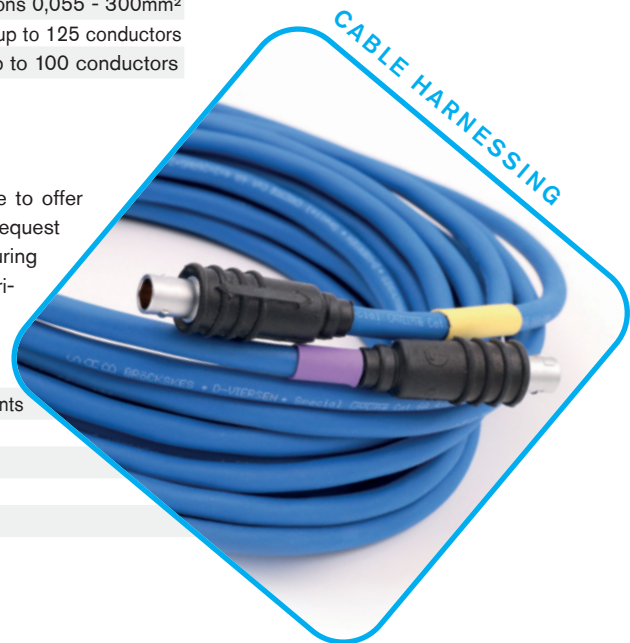
#### Conductors:

- ✓ cross sections 0,055 - 300mm<sup>2</sup>
- ✓ unshielded up to 125 conductors
- ✓ shielded up to 100 conductors

### Cable harnessing directly from the manufacturer SAB:

As a full service partner we are also able to offer cable harnessing acc. to the customers request besides the development and manufacturing of cables. Please trust our long-term experience in the processing of cables and plugs.

- ✓ harnessing acc. to customer's requirements
- ✓ complete cable harness
- ✓ UL certified assemblies
- ✓ Helix cables
- ✓ HV measurement harnessing



### Measuring technique for industrial purpose

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

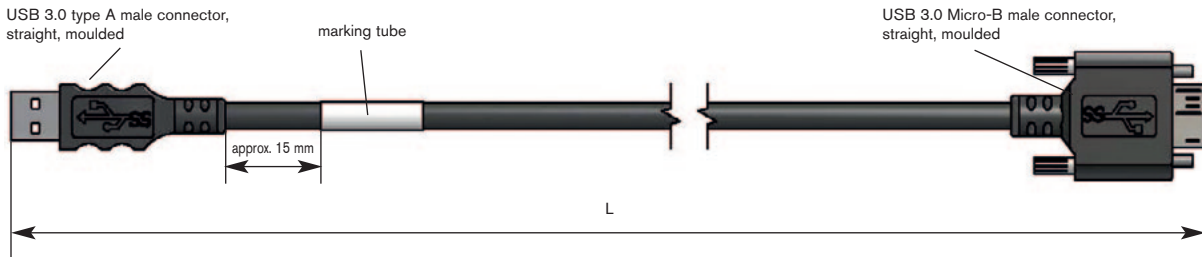
- ✓ Mineral insulated thermocouples
- ✓ Mineral insulated resistance thermometers
- ✓ Temperature sensors
- ✓ Mobile high voltage temperature measurement technique
- ✓ Temperature sensors for automobile testing

# USB 3.0 CABLES



## USB 3.0 CABLE WITH MOULDED CONNECTOR

USB 3.0 cable with moulded type A and Micro-B male connector



### Application:

Connection cable PC – 3D camera



### Cable characteristics:

- mechanically very rugged
- PUR cable suitable for cable tracks

### Cable data:

Construction:	3x(2x30AWG)ST+2x24AWG
Insulation:	SABIX®
Outer sheath:	PUR
Outer diameter:	approx. 6,1 mm
Min. bending radius:	10 x d
Peak operating voltage:	max. 350 V

### Configuration example:

item no.	length „L“ in cm
S0604-4004-00100	100
S0604-4004-00200	200
S0604-4004-00300	300
S0604-4004-00500	500

### Connector:

side 1:	USB 3.0 type A male connector
side 2:	USB 3.0 type Micro-B male connector

### SAB marking:

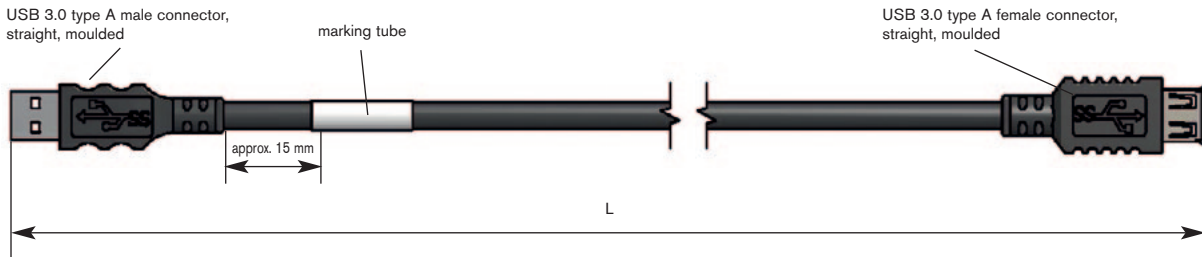
item number, order number, length

# USB 3.0 CABLES



## USB 3.0 CABLE WITH MOULDED CONNECTOR

USB 3.0 cable with moulded type A male connector and type A female connector



### Application:

Extension cable



### Cable characteristics:

- mechanically very rugged
- PUR cable suitable for cable tracks

### Cable data:

Construction:	3x(2x30AWG)ST+2x24AWG
Insulation:	SABIX®
Outer sheath:	PUR
Outer diameter:	approx. 6,1 mm
Min. bending radius:	10 x d
Peak operating voltage:	max. 350 V

### Configuration example:

item no.	length „L“ in cm
S0604-4005-00050	50
S0604-4005-00100	100
S0604-4005-00200	200
S0604-4005-00300	300
S0604-4005-00500	500

### Connector:

side 1:	USB 3.0 type A male connector
side 2:	USB 3.0 type A female connector

### SAB marking:

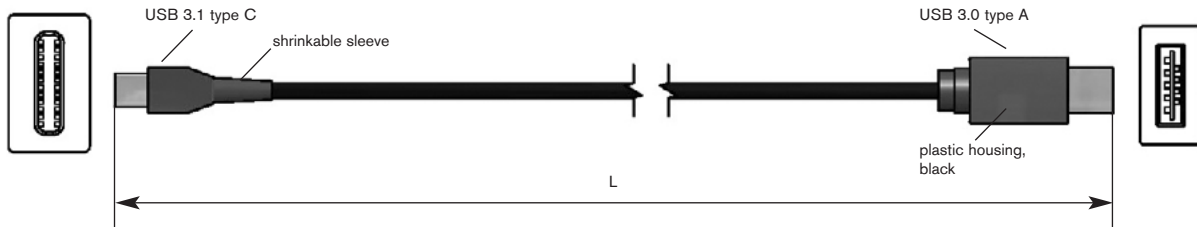
item number, order number, length

# USB 3.0 CABLES



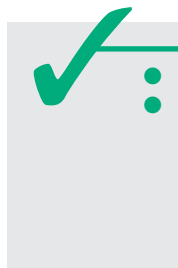
## USB 3.0 CABLE WITH HAND-ASSEMBLED CONNECTORS

USB 3.0 cable with hand-assembled type A connector and type C connector



### Application:

Connection cable USB A  
with USB C connector



### Cable characteristics:

- mechanically very rugged
- PUR cable suitable for cable tracks

### Cable data:

Construction:	3x(2x30AWG)ST+2x24AWG
Insulation:	SABIX®
Outer sheath:	PUR
Outer diameter:	approx. 6,1 mm
Min. bending radius:	10 x d
Peak operating voltage:	max. 350 V

### Configuration example:

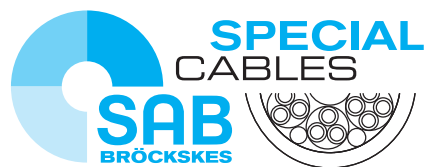
item no.	length „L“ in cm
S0604-4009-00100	100
S0604-4009-00200	200
S0604-4009-00300	300
S0604-4009-00500	500

### Connector:

side 1:	USB 3.0 type A connector (hand-assembled)
side 2:	USB 3.1 type C connector (hand-assembled)

### SAB marking:

item number, order number, length



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