HARNESSED KOAX BNC CABLES





www.sab-cable com



TRADITIONAL FAMILY BUSINESS SINCE 1947



www.sab-cable.com

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:	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



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

Conductors:

- cross sections 0,055 300mm²
- 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





SPECIAL

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

CABLE HARNESSING

HARNESSED CABLES

UL certified cable harness

SABBröckskes has completed its range of harnessed cables with the certification acc. to UL Standard Wiring Harness "category ZPFW2 (UL)" and "ZPFW8 (Canada)" and herewith strengthens its position as cable specialist for cable harness acc. to customer's specification.

Whenever harnessed cables are produced as component part of a final product for the North American and Canadian market, an UL certified cable harness is necessary. With the UL certification **SAB** ensures the detailed traceability of individual components as for example cables, plugs or sleeves

and offers highest planning reliability also with special harnessing products.

Underwriter Laboratories Inc. (UL), an independent American test and certification authority confirms the use of the materials and documents required by the final customer according to the UL certification for "Wiring Harness" acc. to ZPFW2 and ZPFW8. In the manufacturer's data base (www.ul.com) **SAB** is listed under file no. E473226 as a qualified and reliable manufacturer. The requirements for UL certified cable harness are controlled by external audits every three months in order to guarantee the high requirements of the UL standards. Besides our cables, also harnessed versions, are tested in our own laboratory with regard to safety and reliability and are marked with the "Wiring Harness Label".

On request **SAB** is able to manufacture cable harnessing products acc. to customer's specification acc. to UL Wiring Harnesses ZPFW2 and ZPFW8 from the cable to the harness and offers broad advice.

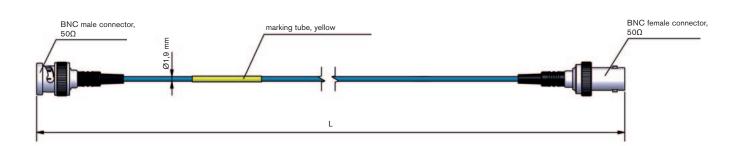
Certificate Number	
Report Reference	E473226-20150122
Issue Date	2015-JANUARY-23
Issued to:	SAB BROECKSKES GMBH & CO KG
	GREFRATHERSTRASSE 201 0100
	PUSIFACH 12 01 60
	41749 VIERSEN GERMANY
This is to certify that representative samples of	COMPONENT - WIRING HARNESSES
samples of	General Coverage
	Have been investigated by UL in accordance with the Standard(s) indicated on this Costinger
	Standard(s) indicated on this Certificate.
Standard(s) for Safety:	Wiring Harnesses, Subject 764, and CSA Informs Wiring Harnesses No. 1
Additional Information:	Harnesses No. 1
	See the UL Online Certifications Directory at
	for additional information
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on on on Service.	
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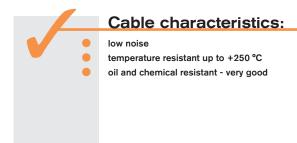
LOW NOISE COAXIAL CABLE

with BNC male and female connector



Application:

low noise coaxial cable



	Cable data:
Construction:	1 x 0,25 mmØ
Insulation:	TPFK
Screen:	overall screen > 80%
Outer sheath:	TPFK, colour blue - RAL 5015
Outer diameter:	approx. 1,9 mm
Min. bending radius:	10 x d
Peak operating voltage:	375 V
Temperature range:	-55/+250 °C
Oil resistance:	very good

Configuration example:

item no.	length "L" in cm
S3620-4020-00100	100

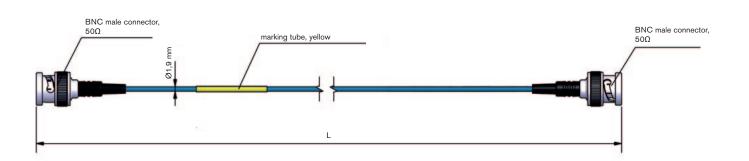
	Connector:
side 1:	BNC male connector 50 Ω
side 2:	BNC female connector 50 Ω

SAB marking:



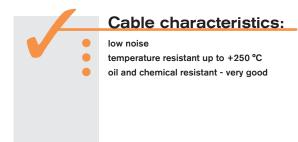
LOW NOISE COAXIAL CABLE

with BNC male connector at both sides



Application:

low noise coaxial cable



	Cable data:
Construction:	1 x 0,25 mmØ
Insulation:	TPFK
Screen:	overall screen > 80%
Outer sheath:	TPFK, colour blue - RAL 5015
Outer diameter:	approx. 1,9 mm
Min. bending radius:	10 x d
Peak operating voltage:	375 V
Temperature range:	-55/+250 °C
Oil resistance:	very good

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Configuration example:

item no.	length "L" in cm
S3620-4023-00100	100

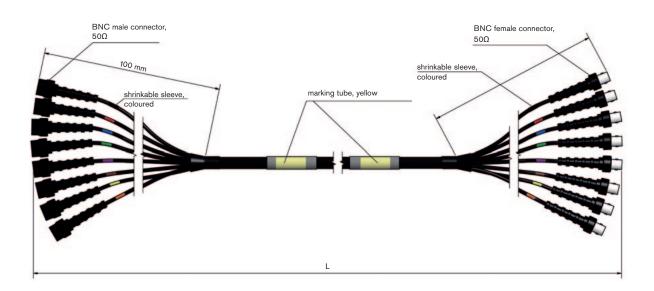
	Connector:
side 1:	BNC male connector 50 Ω
side 2:	BNC male connector 50 Ω

SAB marking:



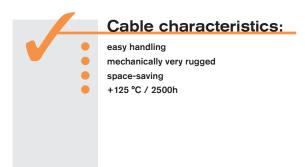
COAXIAL CONNECTING CABLE RG 316 - 8-PLUG

with BNC male and female connectors 50 $\boldsymbol{\Omega}$



Application:

multiple coaxial cable



	Cable data:
Construction:	8 x AWG26
Insulation:	TPFK
Screen:	single screen > 80%
Inner sheath:	TPE
Stranding:	together
Screen:	overall screen > 80%
Outer sheath:	PUR 420, colour black, mat surface
Outer diameter:	approx. 11,6 mm
Min. bending radius:	15 x d
Peak operating voltage:	900 V
Temperature range:	-40/+90 °C (+125 °C / 2500h)
Oil resistance:	very good - TMPU acc. to EN50363-10-2

Configuration example:

item no.	length "L" in cm
S3600-4089-00200	200

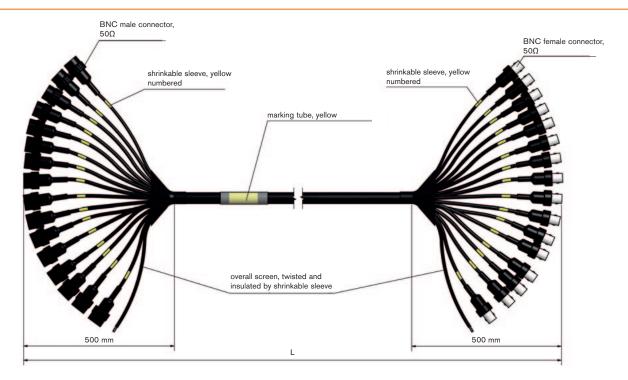
	Connector:
side 1:	BNC male connector 50 Ω
side 2:	BNC female connector 50 Ω

SAB marking:



COAXIAL CONNECTING CABLE RG 316 - 16-PLUG

with BNC male and female connectors 50 $\boldsymbol{\Omega}$



Application:

multiple coaxial cable



	Cable data:
Construction:	16 x AWG26
Insulation:	TPFK
Screen:	single screen > 80%
Inner sheath:	TPE
Stranding:	together
Screen:	overall screen > 80%
Outer sheath:	PUR 420, colour black, mat surface
Outer diameter:	approx. 15,0 mm
Min. bending radius:	15 x d
Peak operating voltage:	900 V
Temperature range:	-40/+90 °C (+125 °C / 2500h)
Oil resistance:	very good - TMPU acc. to EN50363-10-2

Configuration example:

item no.	length "L" in cm
S3600-4073-01500	1500

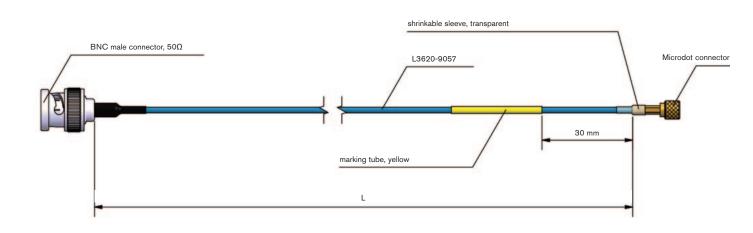
	Connector:
side 1:	BNC male connector 50 Ω
side 2:	BNC female connector 50 Ω

SAB marking: item number, order number, length



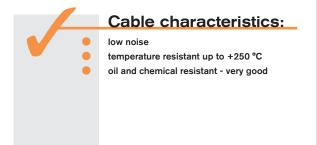
COAXIAL CONNECTING CABLE

with BNC male connector and Microdot connector



Application:

coaxial cable as connection between sensor and measuring device



	Cable data:
Construction:	1 x 0,25 mm
Insulation:	PFA
Screen:	tinned copper braiding
Outer sheath:	PFA
Outer diameter:	approx. 1,9 mm
Min. bending radius:	10 x d
Peak operating voltage:	375 V
Temperature range:	-40/+70 °C

Configuration example:

item no.	length "L" in cm
S3620-4016-00300	300

	Connector:
side 1:	BNC male connector 50 Ω
side 2:	Microdot connector

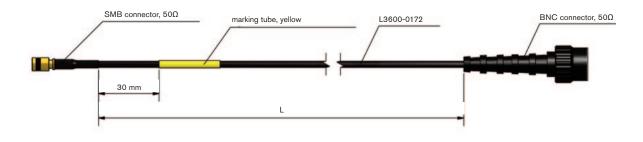
SAB marking:



HARNESSED KOAX BNC CABLES

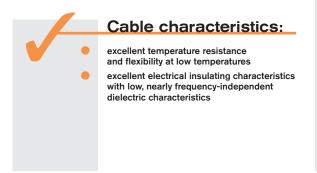
COAXIAL CONNECTING CABLE

with BNC and SMB connector



Application:

coaxial cable as connection between sensor and measuring device



	Cable data:
Construction:	AWG 26/7
Insulation:	FEP
Screen:	tinned copper braiding
Outer sheath:	TPE
Outer diameter:	approx. 1,9 mm
Min. bending radius:	7,5 x d
Peak operating voltage:	900 V
Temperature range: fixed laying: flexible application:	-50/+90°C -40/+90°C

Configuration example:

item no.	length "L" in cm
S3600-4092	200

	Connector:	
side 1:		SMB connector 50 Ω
side 2:		BNC connector 50 Ω

SAB marking:







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