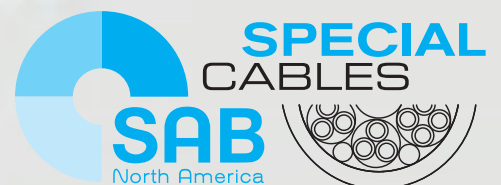


ASSEMBLIES COAX BNC CABLES



www.sabcable.com
866-722-2974 ■ info@sabcable.com



SAB North America

About Us

SAB North America 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 North America for Special Cables and Assemblies 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



High-quality flexible and trouble-free coaxial cables are needed to fulfill the requirements of high-frequency technology. As one of the worldwide leading cable manufacturers, SAB Bröckskes has a variety of cable solutions in its product range to meet the demands of the application such as mechanical stress, vibration or friction. Our low-noise coaxial cable is an excellent solution to suppress noise from tribo-electric interference voltage. SAB can offer a complete solution with the corresponding coaxial connectors. Multiple plug combinations like BNC, TNC, SMA, SMB and Microdot are available.

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

COAX BNC Cable Assemblies

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:

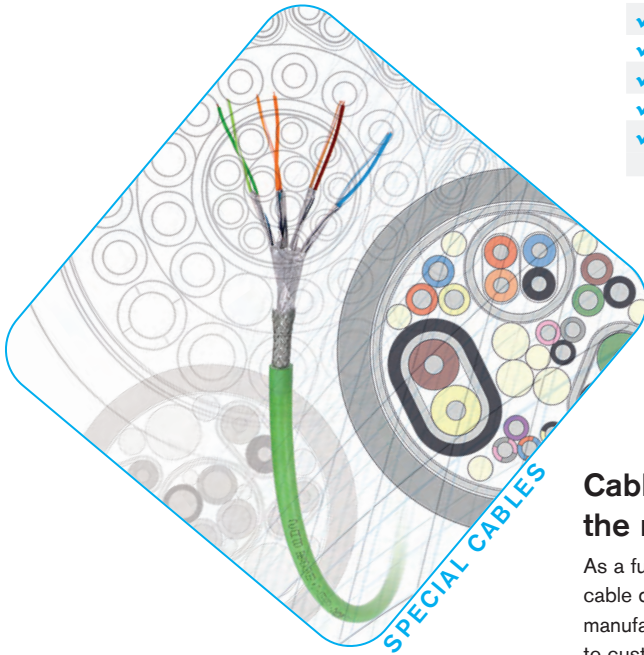
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

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:

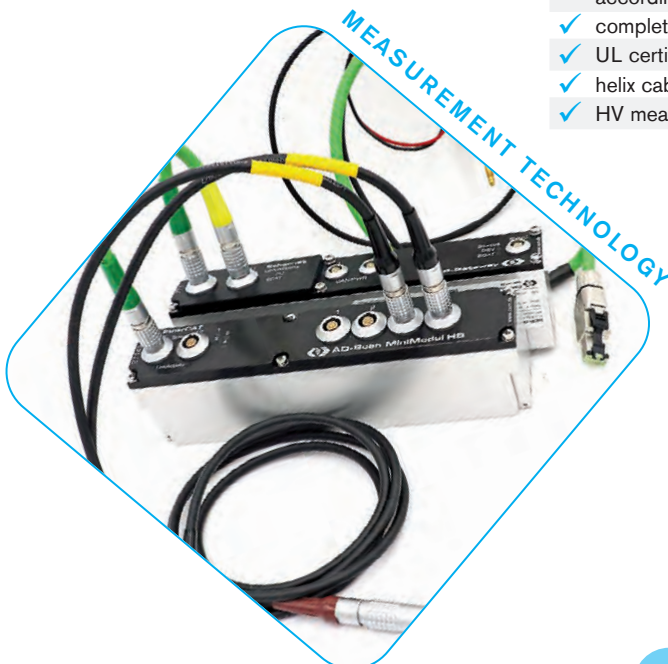
- ✓ cross sections 0.055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors



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

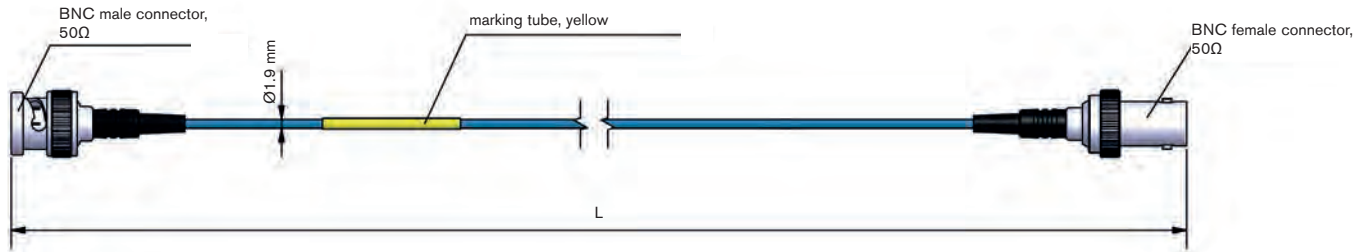
Manufacturer of temperature sensors for industrial applications with 75 years of experience!

- ✓ mineral insulated thermocouples
- ✓ mineral insulated resistance thermometers
- ✓ temperature sensors
- ✓ mobile high voltage measuring technology
- ✓ temperature sensors for vehicle testing

COAX BNC Cable Assemblies

Low Noise coaxial cable

with BNC male and female connector



Application:

low noise coaxial cable



Cable characteristics:

- low noise
- temperature resistant up to +250°C
- oil and chemical resistant - very good

Cable data:

Construction:	1 x 0.25 mmØ
Insulation:	TPFK
Shield:	overall shield > 80%
Outer jacket:	TPFK, color blue - RAL 5015
Outer diameter:	approx. 1.9 mm
Min. bending radius:	10 x O.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

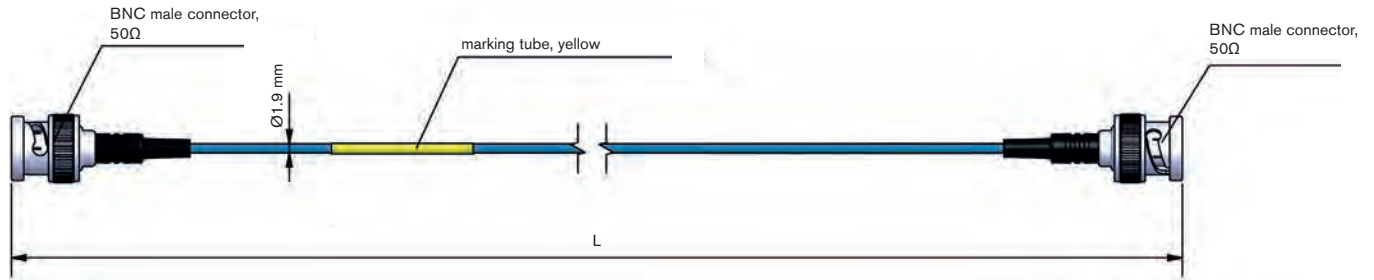
SAB marking:

item number, order number, length

COAX BNC Cable Assemblies

Low Noise coaxial cable

with BNC male connector at both sides



Application:

low noise coaxial cable



Cable characteristics:

- low noise
- temperature resistant up to +250°C
- oil and chemical resistant - very good

Cable data:

Construction:	1 x 0.25 mmØ
Insulation:	TPFK
Shield:	overall shield > 80%
Outer jacket:	TPFK, color blue - RAL 5015
Outer diameter:	approx. 1.9 mm
Min. bending radius:	10 x O.D.
Peak operating voltage:	375 V
Temperature range:	-55/+250°C
Oil resistance:	very good

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

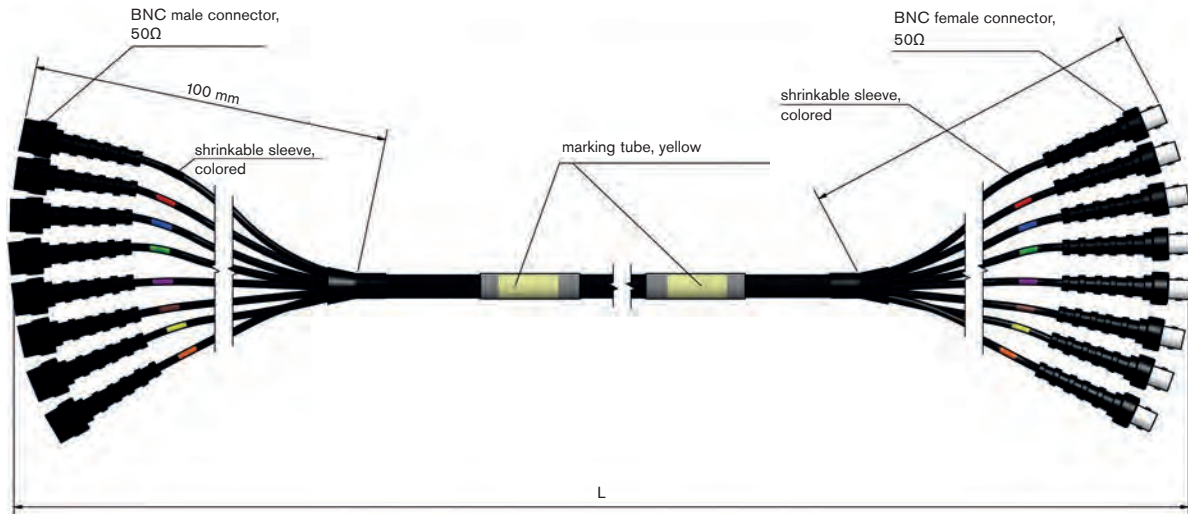
SAB marking:

item number, order number, length

COAX BNC Cable Assemblies

Coaxial connecting cable RG 316 - 8-plug

with BNC male and female connectors 50 Ω



Application:

multiple coaxial cable



Cable characteristics:

- easy handling
- mechanically very rugged
- space-saving
- +125°C / 2500h

Cable data:

Construction:	8 x AWG26
Insulation:	TPFK
Shield:	single shield > 80%
Inner jacket:	TPE
Stranding:	together
Shield:	overall shield > 80%
Outer jacket:	PUR 420, color black, matte surface
Outer diameter:	approx. 11.6 mm
Min. bending radius:	15 x O.D.
Peak operating voltage:	900 V
Temperature range:	-40/+90°C (+125°C / 2500h)
Oil resistance:	very good - T MPU 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

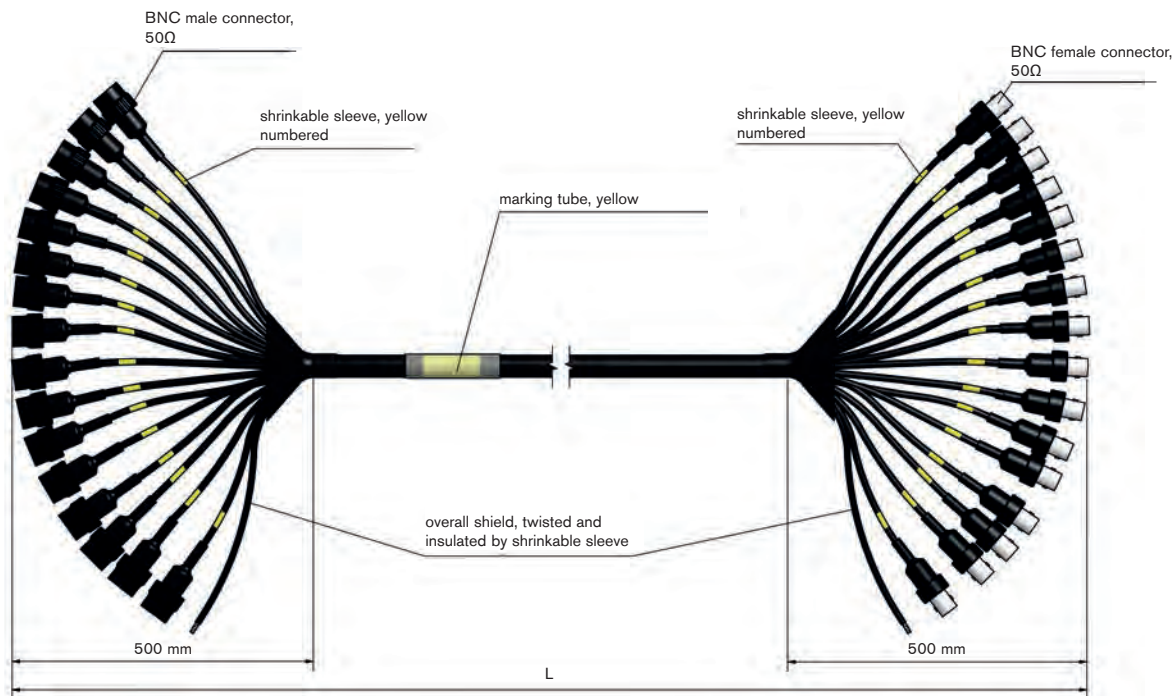
SAB marking:

item number, order number, length

COAX BNC Cable Assemblies

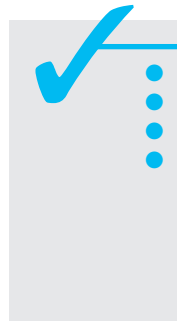
Coaxial connecting cable RG 316 - 16-plug

with BNC male and female connectors 50 Ω



Application:

multiple coaxial cable



Cable characteristics:

- easy handling
- mechanically very rugged
- space-saving
- +125°C / 2500h

Cable data:

Construction:	16 x AWG26
Insulation:	TPFK
Shield:	single shield > 80%
Inner jacket:	TPE
Stranding:	together
Shield:	overall shield > 80%
Outer jacket:	PUR 420, color black, matte surface
Outer diameter:	approx. 15.0 mm
Min. bending radius:	15 x O.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

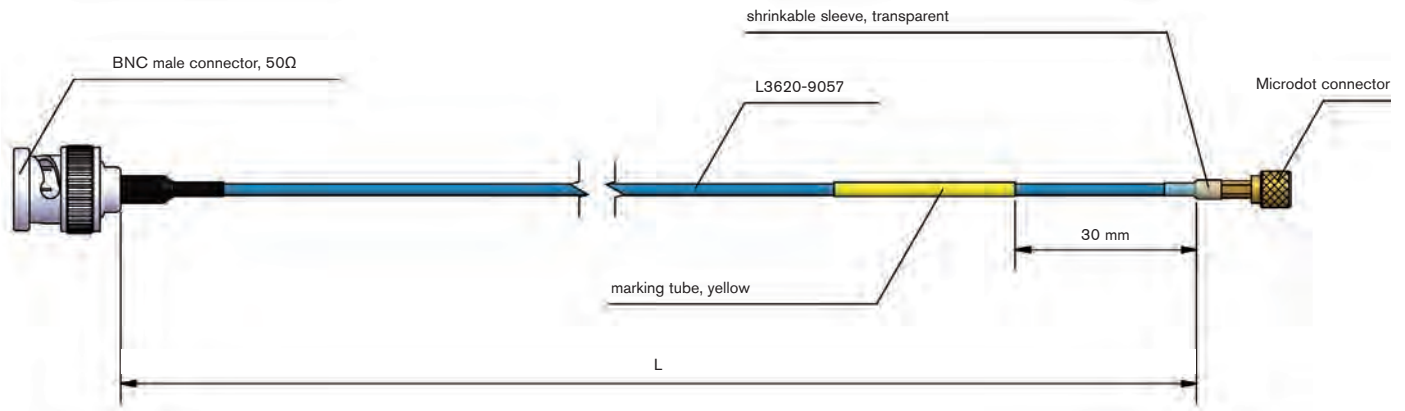
SAB marking:

item number, order number, length

COAX BNC Cable Assemblies

Coaxial connecting cable

with BNC male connector and Microdot connector



Application:

coaxial cable as connection
between sensor and measuring device



Cable characteristics:

- low noise
- temperature resistant up to +250°C
- oil and chemical resistant - very good

Cable data:

Construction:	1 x 0.25 mm
Insulation:	PFA
Shield:	tinned copper braiding
Outer jacket:	PFA
Outer diameter:	approx. 1.9 mm
Min. bending radius:	10 O.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

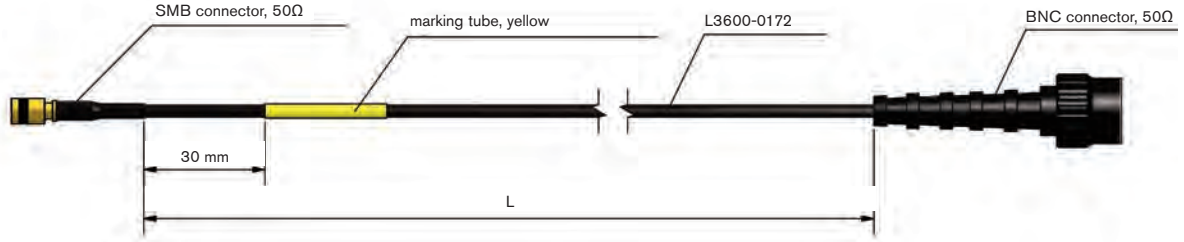
SAB marking:

item number, order number, length

COAX BNC Cable Assemblies

Coaxial connecting cable

with BNC and SMB connector



Application:

coaxial cable as connection
between sensor and measuring device



Cable characteristics:

- excellent temperature resistance and flexibility at low temperatures
- excellent electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics

Cable data:

Construction:	AWG 26/7
Insulation:	FEP
Shield:	tinned copper braiding
Outer jacket:	TPE
Outer diameter:	approx. 1.9 mm
Min. bending radius:	7.5 x O.D.
Peak operating voltage:	900 V
Temperature range:	
fixed laying:	-50/+90°C
flexible application:	-40/+90°C

Configuration example:

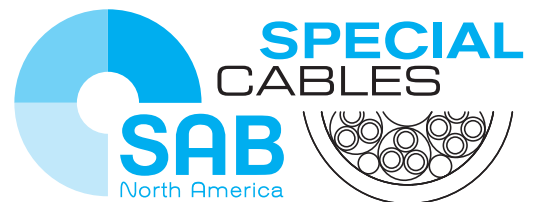
item no.	length "L" in cm
S3600-4092	200

Connector:

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

SAB marking:

item number, order number, length



344 Kaplan Drive
Fairfield, NJ 07004
Toll Free: 866-722-2974
www.sabcable.com
info@sabcable.com

June 2023