High temperature Cables
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 600 HDTR</td>
<td>SABIX® insulated conductors with silicone outer jacket, UL, CSA, CE</td>
<td>6-7</td>
</tr>
<tr>
<td>SC 600 C HDTR</td>
<td>Shielded SABIX® insulated conductors with silicone outer jacket, UL, CSA, CE</td>
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<tr>
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<td>SABIX® insulated conductors with silicone outer jacket and steel wire armoring for mechanical protection, UL, CSA, CE</td>
<td>9</td>
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<tr>
<td>SC 700 HDTR</td>
<td>SABIX® insulated conductors with silicone outer jacket, UL, cUL, CE</td>
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<tr>
<td>SC 700 C HDTR</td>
<td>Shielded SABIX® insulated conductors with silicone outer jacket, UL, cUL, CE</td>
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</tr>
<tr>
<td>SC 113</td>
<td>Silicone insulated hook-up wire, CE</td>
<td>12</td>
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<tr>
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<td>B 118</td>
<td>Silicone insulated hook-up wire Uo/U 0.6/1 kV, CE</td>
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<tr>
<td>B 119</td>
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<tr>
<td>B 110 C</td>
<td>Shielded Silicone insulated copper rope Uo/U 1.8/3 kV, CE</td>
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<tr>
<td>B 120</td>
<td>Silicone insulated hook-up wire Uo/U 3.6/6 kV, CE</td>
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<tr>
<td>BiHF-J</td>
<td>Silicone insulated conductors with silicone outer jacket, CE</td>
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<tr>
<td>BiHF(K)-J</td>
<td>Silicone insulated conductors with extremely notch resistant silicone outer jacket, CE</td>
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<td>BiHFP-J</td>
<td>Silicone insulated conductors with silicone outer jacket and steel wire armoring for mechanical protection, CE</td>
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<td>BiHF/Cu/Bi-J</td>
<td>Shielded silicone insulated conductors with silicone outer jacket, CE</td>
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<tr>
<td>BiHF/Cu/Bi(K)-J</td>
<td>Shielded silicone insulated conductors with extremely notch resistant silicone outer jacket, CE</td>
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<tr>
<td>S 180 HT</td>
<td>Continuous flex control cable with silicone outer jacket for cable tracks, CE</td>
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<tr>
<td>S 180 C HT</td>
<td>Continuous flex shielded control cable with silicone outer jacket for cable tracks, CE</td>
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<td>R 107</td>
<td>Silicone insulated copper rope</td>
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<td>B 107</td>
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<tr>
<td>B 108</td>
<td>Shielded silicone insulated specially stranded copper rope with copper braid</td>
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</tr>
</tbody>
</table>

Note: For more information please see page O/5

: especially for use on rail vehicles
Applications

Application of Besilen® single conductors

Our Besilen® ignition cables and Besilen® high-voltage ignition cables are suitable for applications with high or very unsteady ambient temperatures of up to +180°C. Besilen® insulated wires and Besilen® insulated conductors are suitable for use at high temperatures especially for the internal wiring of lamps and appliances as well as for the wiring of switchboard plants and distributors, at low mechanical loads.

Exemplary applications:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 113</td>
<td>Flexible applications for internal wiring of lamps, heating appliances, switchboard plants and distributors in industries such as smelters, steelworks and hot-rolling mills, industrial oven and textile machine construction, illumination and electric industries, wood working and paper processing industries</td>
</tr>
<tr>
<td>B 118</td>
<td>Switchboard plants and distributors, smelters, steelworks and hot-rolling mills, cement, glass and ceramic processing, industrial oven and textile machine construction, lamp, illumination and electric industries, railway technology</td>
</tr>
<tr>
<td>B 110 C</td>
<td>for example for the connection of converters to test benches for electric mobility</td>
</tr>
</tbody>
</table>

Application of Besilen® single conductors with fiberglass braiding

These Besilen® cables with fiberglass braiding are for use at high ambient temperatures for internal wiring e.g. of lamps, heating appliances and electric machines as well as for wiring of switchboard plants and distributors. The fiberglass braiding offers protection against mechanical damage and at the same time offers excellent heat resistance.

Exemplary applications:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SC 123</td>
<td>Application at ambient temperatures higher than +55°C, for internal wiring of e.g. lamps and illuminations, heating appliances, household, kitchen and laboratory appliances, electric machines, switchboard plants and distributors, medical appliances</td>
</tr>
</tbody>
</table>

Application of Besilen® jacketed cables

Our Besilen® jacketed cables are suitable for applications at high ambient temperatures in dry, damp and wet areas as well as for outdoor use; as flexible connection cable with low mechanical load. The mechanical load capacity can be enhanced by using a steel wire armoring, a fiberglass braiding or an inner jacket. The EMC characteristics can be improved with an overall tinned copper screen. If these cables are used for fixed installation, they are only to be installed in ventilated tube systems or conduits.

Exemplary applications:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BiHF-J</td>
<td>Application in plastics processing, packaging machine construction, smelters, steelworks and hot-rolling mills, safety technology, measuring and control technologies, cement, glass and ceramic industries, refrigeration, heat and air-conditioning technologies, power plants, sauna construction</td>
</tr>
<tr>
<td>BiHFP-J</td>
<td>Application in plastics processing, packaging and textile machine engineering, smelters, steelworks and hot-rolling mills, cement, glass and ceramic industries, sauna construction</td>
</tr>
<tr>
<td>BiHF/Cu/Bi-J</td>
<td>Application in packaging and textile machine construction, refrigeration, heat and air-conditioning, plastics processing, smelters, steelworks and hot-rolling mills, cement, glass and ceramic industries, plastic processing machine construction</td>
</tr>
</tbody>
</table>

Besilen® is a specially developed silicone rubber-based material with good electrical characteristics and it is a registered trademark of SAB BRÖCKSKES GmbH & Co. KG.

E-mail: info@sabcable.com Web site: www.sabcable.com
## Applications

### Application of cable track cables with Besilen® outer jacket

SAB cable track cables with Besilen® outer jacket are for continuous flex use in high temperature areas as for example in cable tracks as control cable with medium mechanical stress.

**Exemplary applications:**
- **S 180 HT**  
  Conveyor systems in steel production and steel processing industries,
- **S 180 C HT**  
  at feeding lines for blast furnaces

### Application of silicone insulated round single conductors for railway technology

The conductors can be laid easily in narrow spaces due to its extremely flexible construction. The translucent insulation enables an easy inspection of the state of conductor. An additional copper support braiding under the insulation provides a supplementary reinforcement for applications with high mechanical stress.

**Exemplary applications:**
- **R 107**  
  3rd Rail current collectors at pantographs and as earth connection at wheel sets,
- **B 107**  
  coupling blocks and crane mountings on rail vehicles
- **B 108**

**Note:** If hermetically sealed and used at temperatures higher than 90°C the mechanical characteristics of silicone rubber will be reduced.

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**Besilen®** is a specially developed silicone rubber-based material with good electrical characteristics and it is a registered trademark of SAB BRÖCKSKES GmbH & Co. KG.

E-mail: info@sabcable.com  
Web site: www.sabcable.com
# HIGH TEMPERATURE CABLES

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<th>SC 700 C HDTR</th>
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<th>B 119</th>
<th>B 120</th>
<th>BiHF-J / BiHF(K)-J</th>
<th>BiHFP-J</th>
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<th>S 180 HF</th>
<th>S 180 C HT</th>
<th>R 107</th>
<th>B 107</th>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td><strong>Flexibility</strong></td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td><strong>Protection against mechanical damage</strong></td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td></td>
</tr>
</tbody>
</table>

*The temperature range for flexing is mentioned on the particular catalog page.*

### Application Temperature

- **Single conductor**
- **Screen**
- **Steel wire braiding**
- **Inner jacket**

### Voltage Standards and Approvals

- **UL/cUL 600 V**
- **Nominal voltage Uo/U 300/500 V**
- **Nominal voltage Uo/U 0.6/1 kV**
- **Nominal voltage Uo/U 1.5/1.5 kV**
- **Nominal voltage Uo/U 1.8/3 kV**
- **Nominal voltage Uo/U 3.6/6 kV**
- **Testing voltage 2000 V**
- **Testing voltage 4000 V**
- **Testing voltage 6000 V**
- **Testing voltage 6500 V**
- **Testing voltage 11000 V**

### Standards and Approvals

- **Zero halogen acc. to DIN VDE 0472 part 815 and IEC 60754-1**
- **Zero halogen for use in rail vehicles**
- **Burning characteristics flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2**
- **Burning characteristics flame retardant and self-extinguishing acc. to DIN EN for use in rail vehicles**
- **Burning characteristics acc. to CSA FT1 and FT2**
- **Burning characteristics acc. to cUL FT1 and FT2**
- **Corrosivity in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases**
- **UL recognition, CSA approval**
- **UL/cUL recognition**
- **acc. to EN 45545-2 for use in rail vehicles**

### Special features

- **Min. bending radius x O.D. free movement**
- **Weather resistance**
- **Flexibility**
- **Protection against mechanical damage**

### Temperature range:

- Short time use
- Normal use

---

E-mail: info@sabcable.com  
Web site: www.sabcable.com
SC 600 HDTR SABIX® insulated conductors with silicone outer jacket

SC 600 HDTR is a heavy duty, multi-conductor, silicone insulated control cable with tear resistant silicone jacket. This cable is recommended for use in applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The SC 600 HDTR is a flexible, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting systems. This cable can also be used anywhere salt water is present, and high temperature processes are utilized.

### Construction:
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** SABIX®
- **Color code:** up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Jacket material:** Besilen® better than EM9 acc. to DIN EN 50363-2-1
- **Jacket color:** reddish brown

### Outstanding features:
- halogen-free
- flexible at low temperatures
- heat resistant
- UL recognized and CSA approved

### Technical data:
- **Voltage:** UL/CSA: 600 V
- **Nominal voltage:** DIN VDE: Uo/U 300/500 V
- **Testing voltage:** 2000 V acc. to DIN VDE 0282 part 2 + HD 22 2
- **Min. bending radius**
  - fixed installation: < 12 mm = 3 x O.D.
  - free movement: < 12 mm = 5 x O.D.
  - > 12 mm = 6 x O.D.
- **Radiation resistance:** 2 x 10^7 cJ/kg
- **Temperature range**
  - static: DIN VDE: -40/+180°C
  - UL/CSA: up to +150°C Style 4535
  - flexible: > 12 mm = 4 x O.D.
  - > 25/+180°C
  - short-time use: > 12 mm = 5 x O.D.
- **Zero halogen:** acc. to DIN VDE 0472 part 815 + IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1 and FT2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive condensation gases
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

### Cable Specifications

<table>
<thead>
<tr>
<th>Item no.</th>
<th>no. of conductors incl. ground</th>
<th>nominal outer-ø in mm</th>
<th>cable weight in lbs/mft</th>
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<td>13.1</td>
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</tbody>
</table>

### Temperature range
- up to +200°C Style 4511 with nickel or silver plated copper strands. Please contact SAB!

E-mail: info@sabcable.com  
Web site: www.sabcable.com
SC 600 HDTR SABIX® insulated conductors with silicone outer jacket

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** SABIX®
- **Color code:** up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Jacket material:** Besilen® better than EM9 acc. to DIN EN 50363-2-1
- **Jacket color:** reddish brown

**Outstanding features:**
- Halogen-free
- Flexible at low temperatures
- Heat resistant
- UL recognized and CSA approved

**Technical data:**
- **Voltage:** UL/CSA: 600 V
- **Nominal voltage:** DIN VDE: U0/U 300/500 V
- **Testing voltage:** 2000 V acc. to DIN VDE 0282 part 2 + HD 22.2
- **Min. bending radius**
  - fixed installation: < 12 mm = 3 x O.D.
  - free movement: < 12 mm = 5 x O.D.
  - > 12 mm = 6 x O.D.
- **Nominal voltage:**
  - temperature range:
    - static: up to +150°C Style 4535
    - +200°C (2000h)
    - +250°C
    - flexible:
      - short-time use: > 12 mm = 5 x O.D.
      - < 12 mm = 4 x O.D.
- **Radiation resistance:** 2 x 10^4 c/μ/kg
- **Marking for SC 600 HDTR 01271804:**
  - Style 4535 150°C 600V CSA AWM I/II A 150°C 600V FT1 FT2

**Marking for SC 600 HDTR 01271804:**

**Other dimensions and colors are possible on request.**

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**Marking for SC 600 HDTR 01271804:**

**Temperature range up to +200°C Style 4511 with nickel or silver plated copper strands. Please contact SAB!**

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E-mail: info@sabcable.com  
Web site: www.sabcable.com
SC 600 C HDTR Shielded SABIX® insulated conductors with silicone outer jacket

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** SABIX®
- **Color code:** up to 6 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Inner jacket:** Besilen® EM9 acc. to DIN EN 50363-2-1
- **Screen:** tinned copper braiding
- **Jacket material:** Besilen® better than EM9 acc. to DIN EN 50363-2-1
- **Jacket color:** black

**Outstanding features:**
- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- UL recognized and CSA approved

**Technical data:**
- **Voltage:** UL/CSA: 600 V
- **Nominal voltage:** DIN VDE: *Uo/U* 300/500 V
- **Testing voltage:** 2000 V acc. to DIN VDE 0282 part 2 + HD 22.2 conductor/screen 2000 V
- **Min. bending radius:**
  - fixed installation: 5 x O.D.
  - free movement: 10 x O.D.
- **Radiation resistance:** 2 x 10^12 cJ/kg
- **Temperature range:**
  - **static:** DIN VDE: -40/+180°C up to +150°C Style 4535
  - **flexible:** -25/+180°C
  - **short-time use:** +250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 + IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1 and FT2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page 0/30

**Item no.** | **no. of conductors incl. ground** | **nominal outer-ø mm** | **cable weight = lbs/mft**
--- | --- | --- | ---
19 AWG (= 23/32) | 0.75 mm²
01241902 | 2 | 0.323 | 8.2 | 62
01241903 | 3 | 0.355 | 8.5 | 68
01241904 | 4 | 0.388 | 9.0 | 83
01241905 | 5 | 0.421 | 9.7 | 93
18 AWG (= 30/32) | 1.00 mm²
01241802 | 2 | 0.331 | 8.4 | 68
01241803 | 3 | 0.363 | 8.7 | 81
01241804 | 4 | 0.397 | 9.3 | 91
01241805 | 5 | 0.433 | 10.1 | 112
01241807 | 7 | 0.433 | 11.0 | 136

Other dimensions and colors are possible on request.

**Temperature range up to +200°C Style 4511 with nickel or silver plated copper strands. Please contact SAB!**

E-mail: info@sabcable.com  Web site: www.sabcable.com
SC 600 HDTRS is a heavy duty, multi-conductor, silicone insulated control cable with tear resistant silicone jacket and galvanized steel wire braid. This cable is recommended for use in applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The SC 600 HDTRS is a flexible, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting systems. This cable can also be used anywhere salt water is present, and high temperature processes are utilized.

**Construction:**

- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** SABIX®
- **Color code:** up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Jacket material:** Besilen® better than EM9 acc. to DIN EN 50363-2-1
- **Jacket color:** reddish brown
- **Armour:** galvanized steel wire braiding

**Outstanding features:**

- halogen-free
- flexible at low temperatures
- heat resistant
- protection against mechanical damage
- UL recognized and CSA approved

**Technical data:**

- **Voltage:** UL/CSA: 600 V
- **Nominal voltage:** DIN VDE: Uo/U 300/500 V
- **Testing voltage:** 2000 V acc. to DIN VDE 0282 part 2 + HD 22 2
- **Min. bending radius:** fixed installation: 5 x O.D.
- **Radiation resistance:** 10 x O.D.
- **Temperature range:** DIN VDE: +40/+180°C +200°C (2000h) up to +150°C Style 4535
- **Zero halogen:** acc. to DIN VDE 0472 part 815 + IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to EN 50332-1-2 + EN 60332-1-2, CSA FT1 and FT2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Other dimensions and colors are possible on request.**

**Temperature range up to +200°C Style 4511 with nickel or silver plated copper strands. Please contact SAB!**

E-mail: info@sabcable.com  Web site: www.sabcable.com
### SC 700 HDTR SABIX® insulated strands with Besilen® outer jacket

**SC 700 HDTR** is a heavy duty, multi-conductor, silicone insulated control cable with tear resistant silicone jacket. This cable is recommended for use in applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The SC 700 HDTR is a flexible, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting systems. This cable can also be used anywhere salt water is present, and high temperature processes are utilized.

### Construction:

**Conductor:**
- < 10 mm²: nickel-plated copper strands
- ≥ 10 mm²: tinned copper strands

**Insulation:**
- SABIX®

**Color code:**
- colored acc. to HD 308 (VDE 0293 part 308), from 3 conductors a green-yellow earth wire, from 6 conductors black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire

**Stranding:**
- in layers

**Jacket material:**
- Besilen® EM9 acc. to DIN EN 50363-2-1 + VDE 0207-363-2-1

**Jacket color:**
- reddish brown (similar RAL 3016)

### Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant
- UL/CL/UL recognized

### Technical data:

**Voltage UL/cUL:**
- 600 V

**Nominal voltage:**
- DIN VDE: Uo/U 300/500 V

**Testing voltage:**
- conductor/conductor 2000 V

**Min. bending radius**
- fixed installation:
  - 4 x O.D.
- free movement:
  - 6 x O.D.

**Radiation resistance:**
- 2 x 10⁻⁴ c/kg

**Temperature range static:**
- DIN VDE:
  - -40/+180°C
  - -25/+180°C
  - +250°C

**Voltage UL/cUL:**
- up to +200°C

**UL/cUL static:**
- DIN VDE:
  - +250°C

**Zero halogen:**
- acc. to IEC 60754-1 + VDE 0482-754-1

** Burning characteristics:**
- flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, c(UL) FT1 + FT2

**Absence of harmful substances:**
- no development of corrosive configuration gases

**Corrosivity:**
- acc. to RoHS directive of the European Union see page O/30

### Nominal outer ø:

- **Cable incl. ground conductors**
- **lbs/mft**

### Weight

- **lbs/mft**

### Other dimensions and colors are possible on request.

---

**E-mail:** info@sabcable.com  **Web site:** www.sabcable.com

---

**4511 200°C 600V cUL AWM I/II A/B 200°C 600V FT1 FT2 CE**

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**Marking for SC 700 HDTR 01251804:**

- SAB BRÖCKSKES · D-VIERSEN · SC 700 HDTR AWM Style 4511 200°C 600V cUL AWM I/II A/B 200°C 600V FT1 FT2 CE
SC 700 C HDTR is a heavy duty, multi-conductor, shielded, silicone insulated control cable with tear resistant silicone jacket. This cable is recommended for use in applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The SC 700 C HDTR is a flexible, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting systems. This cable can also be used anywhere salt water is present, and high temperature processes are utilized. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

**Construction:**

**Conductor:**
- < 10 mm²: nickel-plated copper strands
- ≥ 10 mm²: tinned copper strands
- acc. to IEC 60228, VDE 0295, class 5

**Insulation:** SABIX®

**Color code:**
- colored acc. to HD 308 (VDE 0293 part 308), from 3 conductors a green-yellow earth wire,
- from 6 conductors black conductors with consecutive numbers
- acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire

**Stranding:** in layers

**Inner jacket:** Besilen® EM9
- acc. to EN 50363-2-1 + VDE 0207-363-2-1

**Screen:**
- tinned copper braiding

**Jacket material:**
- Besilen® EM9 acc. to DIN EN 50363-2-1 + VDE 0207-363-2-1

**Jacket color:**
- reddish brown (similar RAL 3016)

**Outstanding features:**
- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- UL/cUL recognized

**Technical data:**

**Voltage UL/cUL:**
- 600 V

**Nominal voltage:**
- DIN VDE: Uo/U 300/500 V

**Testing voltage:**
- conductor/conductor 2000 V
- conductor/screen 2000 V

**Min. bending radius**
- fixed installation: 5 x O.D.
- free movement: 10 x O.D.

**Radiation resistance:**
- 2 x 10⁷ cJ/kg

**Temperature range**
- DIN VDE: static: -40/+180°C
- flexible: -25/+180°C
- short-time use: +250°C

**Zero halogen:**
- acc. to IEC 60754-1 + VDE 0482-754-1

**Burning characteristics:**
- flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, c(UL) FT1 + FT2

**Corrosivity:**
- acc. to RoHS directive of the European Union

**Absence of harmful substances:**
- acc. to RoHS directive of the European Union see page O/30

**Other dimensions and colors** are possible on request.
SC 113 is a high temperature single conductor silicone wire recommended for use in applications where temperature exceeds the maximum rating of traditional plastic and rubber insulated wires. This cable is a flexible, cost-effective wire. Recommended applications include foundries, steel mills and glass factories, and other high temperature processes and is recommended wherever an overall abrasion resistant covering is required.

Construction:
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1

Outstanding features:
- halogen-free
- flexible at low temperatures
- heat resistant

Technical data:
- **Nominal voltage:** Uo/U 300/500 V
- **Testing voltage:** 2000 V
- **Min. bending radius:** 7.5 x O.D.
- **Radiation resistance:** $2 \times 10^7 \text{ cJ/kg}$
- **Temperature range**
  - static: $-40^{\circ}/+180^{\circ}\text{C}$
  - flexible: $-25^{\circ}/+180^{\circ}\text{C}$
  - short-time use: $-25^{\circ}/+250^{\circ}\text{C}$
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Chemical resistance:** see page O/11
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

### item no. mm² AWG nominal outer-diameter mm cable weight lbs/mft

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<th>Item no.</th>
<th>mm²</th>
<th>AWG</th>
<th>nominal outer-diameter mm</th>
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Other dimensions and colors are possible on request.

* Color code for single conductors:
  - .0 = green-yellow
  - .1 = blue
  - .2 = black
  - .3 = brown
  - .4 = gray
  - .5 = white
  - .6 = reddish brown
  - .7 = red
SC 123 Silicone insulated hook-up wire with fiberglass braid

SC 123 is a high temperature single conductor silicone wire with a heat resistant fiberglass braid recommended for use in applications where temperature exceeds the maximum rating of traditional plastic and rubber insulated wires. This cable is a flexible, cost-effective wire. Recommended applications include foundries, steel mills, glass factories, and other high temperature processes and is recommended wherever an overall abrasion resistant covering is required.

**Construction:**
- Conductor: tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- Insulation: Besilen® EI2 acc. to DIN EN 50363-1
- Standard color: nature
- Braiding: fiberglass
- Impregnation: impregnating lacquer

**Outstanding features:**
- halogen-free
- flexible at low temperatures
- heat resistant
- fiberglass braid for additional protection

**Technical data:**
- Nominal voltage: Uo/U 300/300 V
- Testing voltage: 2000 V
- Min. bending radius: 7.5 x O.D.
- Radiation resistance: $2 \times 10^7$ cJ/kg
- Temperature range:
  - static: -40/+180°C
  - flexible: -25/+180°C
  - short-time use: -25/+250°C
- Zero halogen: acc. to DIN VDE 0472 part 815 and IEC 60754-1
- Burning characteristics:
  - flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- Corrosivity:
  - in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- Absence of harmful substances:
  - acc. to RoHS directive of the European Union see page O/30

**Nominal cable sizes:**

<table>
<thead>
<tr>
<th>item no.</th>
<th>mm²</th>
<th>AWG</th>
<th>nominal outer-ø</th>
<th>cable weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>01230050</td>
<td>0.50</td>
<td>20</td>
<td>0.094</td>
<td>4.7</td>
</tr>
<tr>
<td>01230100</td>
<td>1.00</td>
<td>18</td>
<td>0.110</td>
<td>2.8</td>
</tr>
<tr>
<td>01230150</td>
<td>1.50</td>
<td>16</td>
<td>0.126</td>
<td>3.2</td>
</tr>
<tr>
<td>01230250</td>
<td>2.50</td>
<td>14</td>
<td>0.154</td>
<td>3.9</td>
</tr>
<tr>
<td>01230400</td>
<td>4.00</td>
<td>12</td>
<td>0.177</td>
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<tr>
<td>01230600</td>
<td>6.00</td>
<td>10</td>
<td>0.205</td>
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<td>01231000</td>
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<td>8</td>
<td>0.287</td>
<td>7.3</td>
</tr>
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<td>01231600</td>
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<td>6</td>
<td>0.327</td>
<td>8.3</td>
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<td>01232500</td>
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<td>4</td>
<td>0.402</td>
<td>10.2</td>
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<tr>
<td>01233500</td>
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<td>0.449</td>
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<tr>
<td>01235050</td>
<td>50.00</td>
<td>1</td>
<td>0.555</td>
<td>14.1</td>
</tr>
<tr>
<td>01237000</td>
<td>70.00</td>
<td>2/0</td>
<td>0.594</td>
<td>15.1</td>
</tr>
<tr>
<td>01239500</td>
<td>95.00</td>
<td>3/0</td>
<td>0.728</td>
<td>18.5</td>
</tr>
</tbody>
</table>

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com  Web site: www.sabcable.com
B 118 Silicone insulated hook-up wire Uo/U 0.6/1 kV

B 118 is a high temperature single conductor silicone wire with a nominal voltage Uo/U 0.6/1 kV. Recommended for use in smelters, steelworks and hot-rolling mills, cement, glass and ceramic processing, industrial oven and textile machine construction, and railway technology.

**Technical data:**
- **Nominal voltage:** Uo/U 0.6/1 kV
- **Testing voltage:** 4000 V
- **Min. bending radius:** 7.5 x O.D.
- **Temperature range static:** -40/+180°C
- **Temperature range flexible:** -25/+180°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1

**Outstanding features:**
- halogen-free
- flexible at low temperatures
- heat resistant

**Current carrying capacity in A**

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**Other dimensions and colors are possible on request.**

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**Color code for single conductors:**
- 01 = black
- 02 = blue
- 03 = brown
- 04 = gray
- 05 = yellow
- 06 = green
- 07 = violet
- 08 = white
- 16 = enzianblue
- 27 = green-yellow

---

**Nominal voltage Uo/U 0.6/1 kV**

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**E-mail:** info@sabcable.com  
**Web site:** www.sabcable.com
B 119 is a high temperature single conductor silicone wire with a nominal voltage Uo/U 1.8/3 kV. Recommended for use in smelters, steelworks and hot-rolling mills, cement, glass and ceramic processing, industrial oven and textile machine construction, and railway technology.

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1

**Outstanding features:**
- halogen-free
- flexible at low temperatures
- heat resistant

**Technical data:**
- **Nominal voltage:** Uo/U 1.8/3 kV
- **Testing voltage:** 6000 V
- **Min. bending radius:** 7.5 x O.D.
- **Temperature range static:** -40/+180°C
- **Temperature range flexible:** -25/+180°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Other dimensions and colors are possible on request.**

<table>
<thead>
<tr>
<th>Item no.</th>
<th>mm²</th>
<th>AWG</th>
<th>nominal outer-Ø</th>
<th>cable weight lbs/mft</th>
</tr>
</thead>
<tbody>
<tr>
<td>0119°...82</td>
<td>1.50</td>
<td>16</td>
<td>0.165</td>
<td>4.2</td>
</tr>
<tr>
<td>0119°...84</td>
<td>2.50</td>
<td>14</td>
<td>0.185</td>
<td>4.7</td>
</tr>
<tr>
<td>0119°...86</td>
<td>4.00</td>
<td>12</td>
<td>0.209</td>
<td>5.3</td>
</tr>
<tr>
<td>0119°...87</td>
<td>6.00</td>
<td>10</td>
<td>0.228</td>
<td>5.8</td>
</tr>
<tr>
<td>0119°...88</td>
<td>10.00</td>
<td>8</td>
<td>0.319</td>
<td>8.1</td>
</tr>
<tr>
<td>0119°...89</td>
<td>16.00</td>
<td>6</td>
<td>0.358</td>
<td>9.1</td>
</tr>
<tr>
<td>0119°...90</td>
<td>25.00</td>
<td>4</td>
<td>0.441</td>
<td>11.2</td>
</tr>
<tr>
<td>0119°...91</td>
<td>35.00</td>
<td>2</td>
<td>0.488</td>
<td>12.4</td>
</tr>
<tr>
<td>0119°...92</td>
<td>50.00</td>
<td>1</td>
<td>0.579</td>
<td>14.7</td>
</tr>
<tr>
<td>0119°...93</td>
<td>70.00</td>
<td>2/0</td>
<td>0.618</td>
<td>15.7</td>
</tr>
<tr>
<td>0119°...94</td>
<td>95.00</td>
<td>3/0</td>
<td>0.768</td>
<td>19.5</td>
</tr>
<tr>
<td>0119°...95</td>
<td>120.00</td>
<td>2/0</td>
<td>0.827</td>
<td>21.0</td>
</tr>
<tr>
<td>0119°...96</td>
<td>150.00</td>
<td>250 MCM</td>
<td>0.894</td>
<td>22.7</td>
</tr>
<tr>
<td>0119°...97</td>
<td>185.00</td>
<td>350 MCM</td>
<td>0.949</td>
<td>24.1</td>
</tr>
<tr>
<td>0119°...98</td>
<td>240.00</td>
<td>450 MCM</td>
<td>1.084</td>
<td>27.8</td>
</tr>
<tr>
<td>0119°...99</td>
<td>300.00</td>
<td>550 MCM</td>
<td>1.217</td>
<td>30.5</td>
</tr>
</tbody>
</table>

* Color code for single conductors:

- 01 = black
- 02 = blue
- 03 = brown
- 04 = gray
- 05 = yellow
- 06 = green
- 07 = violet
- 08 = white
- 16 = enzianblue
B 110 C is a shielded high temperature single conductor silicone wire with a nominal voltage Uo/U 1.8/3 kV. Recommended for connection of converters to test benches for electric mobility. The B 110 C has a very good laying compatibility due to the extremely flexible construction.

**Construction:**
- **Conductor:** bare copper strands, extra fine wires
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1, orange
- **Wrapping:** alu foil
- **Screen:** bare copper braiding
- **Jacket material:** Besilen® EM9 acc. to EN 50363-2-1
- **Jacket color:** orange (similar RAL 2004)

**Outstanding features:**
- halogen-free
- good EMC characteristics
- flexible at low temperatures
- heat resistant
- flame retardant and self-extinguishing
- weather resistant

### Technical data:

| Nominal voltage: | 12 - 10 AWG: Uo/U 1,5/1,5 kV AC |
|                 | Uo/U 2,2/2,2 kV DC               |
|                 | 8 AWG - 350 MCM: Uo/U 1,8/3,0 kV AC |
|                 | Uo/U 2,7/5,4 kV DC               |
| Testing voltage: | 12 - 10 AWG: 4000 V |
|                 | 8 AWG - 350 MCM: 6000 V         |
| Min. bending radius | fixed installation: 6 x O.D. |
|                 | free movement: 10 x O.D.        |
| Temperature range: | static: -50/+180°C |
|                 | flexible: -25/+180°C |
|                 | short-time use: +250°C          |
| Zero halogen:    | acc. to DIN VDE 0472 part 815 and IEC 60754-1 |
| Burning characteristics: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| Corrosivity:     | in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases |
| Weather resistance: | very good |
| Absence of harmful substances: acc. to RoHS directive of the European Union see page O/30 |

### Application:

for example for the connection of converters to test benches for electric mobility.

Very good laying compatibility due to the extremely flexible construction.
B 120 Silicon insulated hook-up wire Uo/U 3.6/6 kV

**Construction:**

- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1

**Outstanding features:**

- Halogen-free
- Flexible at low temperatures
- Heat resistant

**Technical data:**

- **Nominal voltage:** Uo/U 3.6/6 kV
- **Testing voltage:** 11000 V
- **Min. bending radius:** 7.5 x O.D.
- **Temperature range static:** -40/+180°C
- **Temperature range flexible:** -25/+180°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

<table>
<thead>
<tr>
<th>Item no.</th>
<th>mm²</th>
<th>AWG</th>
<th>nominal outer-ø inch</th>
<th>mm</th>
<th>cable weight lbs/mft</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120*...82</td>
<td>1.50</td>
<td>16</td>
<td>(≈ 27-29/30)</td>
<td>0.268</td>
<td>6.6</td>
</tr>
<tr>
<td>0120*...84</td>
<td>2.50</td>
<td>14</td>
<td>(≈ 46/30)</td>
<td>0.287</td>
<td>7.3</td>
</tr>
<tr>
<td>0120*...86</td>
<td>4.00</td>
<td>12</td>
<td>(≈ 52/28)</td>
<td>0.311</td>
<td>7.9</td>
</tr>
<tr>
<td>0120*...87</td>
<td>6.00</td>
<td>10</td>
<td>(≈ 78/28)</td>
<td>0.331</td>
<td>8.4</td>
</tr>
<tr>
<td>0120*...88</td>
<td>10.00</td>
<td>8</td>
<td>(≈ 77/26)</td>
<td>0.406</td>
<td>10.3</td>
</tr>
<tr>
<td>0120*...89</td>
<td>16.00</td>
<td>6</td>
<td>(≈ 122/26)</td>
<td>0.445</td>
<td>11.3</td>
</tr>
<tr>
<td>0120*...90</td>
<td>25.00</td>
<td>4</td>
<td>(≈ 190/26)</td>
<td>0.528</td>
<td>13.4</td>
</tr>
<tr>
<td>0120*...91</td>
<td>35.00</td>
<td>2</td>
<td>(≈ 272/26)</td>
<td>0.575</td>
<td>14.6</td>
</tr>
<tr>
<td>0120*...92</td>
<td>50.00</td>
<td>1</td>
<td>(≈ 400/26)</td>
<td>0.605</td>
<td>16.8</td>
</tr>
<tr>
<td>0120*...93</td>
<td>70.00</td>
<td>11/0</td>
<td>(≈ 543/26)</td>
<td>0.705</td>
<td>17.9</td>
</tr>
<tr>
<td>0120*...94</td>
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<td>(≈ 484/24)</td>
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</tr>
<tr>
<td>0120*...95</td>
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<td>(≈ 589/24)</td>
<td>0.906</td>
<td>23.0</td>
</tr>
<tr>
<td>0120*...96</td>
<td>150.00</td>
<td>250 MCM</td>
<td>(≈ 740/24)</td>
<td>0.972</td>
<td>24.7</td>
</tr>
<tr>
<td>0120*...97</td>
<td>185.00</td>
<td>350 MCM</td>
<td>(≈ 902/24)</td>
<td>1.012</td>
<td>25.7</td>
</tr>
</tbody>
</table>

Other dimensions and colors are possible on request.

*Color code for single conductors:*

- 01 = black
- 02 = blue
- 03 = brown
- 04 = grey
- 05 = yellow
- 06 = green
- 07 = violet
- 08 = white
- 16 = enzianblue
- 27 = green-yellow

B 120 is a high temperature single conductor silicone wire with a nominal voltage Uo/U 3.6/6 kV. Recommended for use in smelters, steelworks and hot-rolling mills, cement, glass and ceramic processing, industrial oven and textile machine construction, and railway technology.
BiHF-J is a multi-conductor, silicone insulated control cable with a reddish brown silicone jacket. Silicone cables are recommended for use where high temperatures rapidly cause other cables to deteriorate. Recommended applications include foundries, steel mills and glass factories and other high temperature processes.

**BiHF-J Silicone insulated conductors with silicone outer jacket**

![BiHF-J Cable Image]

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® E12 acc. to DIN EN 50363-1
- **Color code:** up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Jacket material:** Besilen® EM9 acc. to DIN EN 50363-2-1
- **Jacket color:** reddish brown

**Outstanding features:**
- halogen-free
- flexible at low temperatures
- heat resistant

**Technical data:**
- **Nominal voltage:** Uo/U 300/500 V
- **Testing voltage:** 2000 V
- **Min. bending radius**
  - **fixed installation:** < 12 mm = 3 x O.D.
  - > 12 mm = 4 x O.D.
- **free movement:** < 12 mm = 5 x O.D.
  - > 12 mm = 6 x O.D.
- **Radiation resistance:** 2 x 10³ cJ/kg
- **Temperature range**
  - static: -40/+180°C
  - flexible: -25/+180°C
  - short-time use: +250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Chemical resistance:** see page O/11
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Item no.**

<table>
<thead>
<tr>
<th>Conductor Diameter</th>
<th>Outer Diameter</th>
<th>Nominal outer Ø</th>
<th>Cable weight</th>
<th>cable weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 AWG (≈ 16/32)</td>
<td>0.50 mm²</td>
<td>0.189 To 0.357</td>
<td>lbs/mft</td>
<td>lbs/mft</td>
</tr>
<tr>
<td>18 AWG (≈ 30/32)</td>
<td>1.00 mm²</td>
<td>0.315 To 0.508</td>
<td>lbs/mft</td>
<td>lbs/mft</td>
</tr>
<tr>
<td>16 AWG (≈ 27-29/30)</td>
<td>1.50 mm²</td>
<td>0.421 To 0.610</td>
<td>lbs/mft</td>
<td>lbs/mft</td>
</tr>
<tr>
<td>14 AWG (≈ 46/30)</td>
<td>2.50 mm²</td>
<td>0.732 To 1.50</td>
<td>lbs/mft</td>
<td>lbs/mft</td>
</tr>
</tbody>
</table>

**Other dimensions and colors are possible on request.**

E-mail: info@sabcable.com  
Web site: www.sabcable.com
BiHF(K)-J is a multi-conductor, silicone insulated control cable with a black extremely notch resistant silicone jacket. Silicone cables are recommended for use where high temperatures and UV light rapidly cause other cables to deteriorate. Recommended applications include foundries, steel mills and glass factories and other high temperature processes.

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1
- **Color code:** up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Jacket material:** Besilen® notch resistant
- **Jacket color:** black

**Outstanding features:**
- improved initial tear resistance
- improved tear-growth resistance
- extremely notch resistant
- good sunlight resistance
- halogen-free
- flexible at low temperatures
- heat resistant

**Technical data:**
- **Nominal voltage:** Uo/U 300/500 V
- **Testing voltage:** 2000 V
- **Min. bending radius**
  - fixed installation: < 12 mm = 3 x O.D.
  - free movement: > 12 mm = 4 x O.D.
- **Radiation resistance:** 2 x 10^7 cJ/kg
- **Temperature range**
  - static: -40/+180°C
  - flexible: -25/+180°C
  - short-time use: +250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Chemical resistance:** see page O/11
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Other dimensions and colors are possible on request.**

**Table:**

| Item no. | no. of conductors incl. ground | nominal outer-Ø | cable weight | | | |
| --- | --- | --- | --- | --- | --- |
| 014500207 | 19 AWG (≈ 23/32) | 0.75 mm² | 0.213 | 5.4 | 27 |
| 014500307 | 014500407 | 014500507 | 014500607 | 014500707 | 01451207 | 0.224 | 6.2 | 48 |
| 0.244 | 0.272 | 0.303 | 0.406 | 0.256 | 0.280 | 0.315 | 0.421 | |
| 0.77 | 6.9 | 7.7 | 10.3 | 6.5 | 7.1 | 8.0 | 10.7 | |
| 27 | 40 | 48 | 65 | 46 | 56 | 75 | 124 | |
BiHFP-J is a multi-conductor, silicone insulated control cable with silicone jacket and protective steel braid. Recommended for use where high temperatures, mechanical abuse and abrasion rapidly cause other cables to deteriorate. It is a flexible, high temperature cable where additional mechanical protection is required. Recommended applications include foundries, steel mills and glass factories and other high temperature processes.

### Construction:

- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
- **Insulation:** Besilen® EI1 acc. to DIN EN 50363-1
- **Color code:** up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
- **Stranding:** in layers
- **Jacket material:** Besilen® EM9 acc. to DIN EN 50363-2-1
- **Jacket color:** reddish brown
- **Armour:** galvanized steel wire braiding

### Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant
- protection against mechanical damage

### Technical data:

- **Nominal voltage:** Uo/U 300/500 V
- **Testing voltage:** 2000 V
- **Min. bending radius**
  - fixed installation: 5 x O.D.
  - free movement: 10 x O.D.
- **Radiation resistance:** 2 x 10² cJ/kg
- **Temperature range**
  - static: -40/+180°C
  - flexible: -25/+180°C
  - short-time use: +250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 - VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Chemical resistance:** see page O/11
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

<table>
<thead>
<tr>
<th>Item no.</th>
<th>no. of conductors incl. ground</th>
<th>nominal outer-ø</th>
<th>cable weight</th>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>lbs/mft</td>
<td>lbs/mft</td>
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<td>10.3</td>
<td>132</td>
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<td>0.583</td>
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</tbody>
</table>

Other dimensions and colors are possible on request.
**BiHF/Cu/Bi-J**  Shielded silicone insulated conductors with silicone outer jacket

**BiHF/Cu/Bi-J** is a multi-conductor, shielded, silicone insulated control cable with a reddish brown silicone jacket. Silicone cables are recommended for use where high temperatures rapidly cause other cables to deteriorate. Recommended applications include foundries, steel mills and glass factories and other high temperature processes. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

### Construction:

<table>
<thead>
<tr>
<th>Conductor:</th>
<th>Insulation: Besilen® EI2 acc. to DIN EN 50363-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color code:</td>
<td>up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire</td>
</tr>
<tr>
<td>Stranding:</td>
<td>in layers</td>
</tr>
<tr>
<td>Inner jacket:</td>
<td>Besilen® EM9 acc. to DIN EN 50363-2-1</td>
</tr>
<tr>
<td>Screen:</td>
<td>tinned copper braiding</td>
</tr>
<tr>
<td>Jacket material:</td>
<td>Besilen® EM9 acc. to DIN EN 50363-2-1</td>
</tr>
<tr>
<td>Jacket color:</td>
<td>reddish brown</td>
</tr>
</tbody>
</table>

### Outstanding features:

- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- increased mechanical protection

### Technical data:

- **Nominal voltage:** Uo/U 300/500 V
- **Testing voltage:** 2000 V conductor/screen 1000 V
- **Min. bending radius:** 5 x O.D. 10 x O.D.
- **Radiation resistance:** 2 x 10⁻⁷ Ω/μW
- **Temperature range:**
  - static: -40/+180°C
  - flexible: -25/+180°C
  - short-time use: +250°C
- **Zero halogen:** acc. to VDE 0472 part 815 and IEC 60754-1
- ** Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive configuration gases
- **Chemical resistance:** see page O/11
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

### Nominal outer-Ø:

- **20 AWG (≈ 16/32)**  •  0.50 mm²
- **19 AWG (≈ 23/32)**  •  0.75 mm²
- **14 AWG (≈ 46/30)**  •  2.50 mm²

### Weight:

- **20 AWG (≈ 16/32)**  •  0.50 mm²: 0.299 lbs/mft, 0.661 lbs/mft
- **19 AWG (≈ 23/32)**  •  0.75 mm²: 0.322 lbs/mft, 0.646 lbs/mft
- **14 AWG (≈ 46/30)**  •  2.50 mm²: 0.382 lbs/mft, 0.764 lbs/mft

### Standard:

- **Screen:** incl. ground

### Construction:

<table>
<thead>
<tr>
<th>Item no.</th>
<th>no. of conductors incl. ground</th>
<th>nominal outer-Ø</th>
<th>cable weight = lbs/mft</th>
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<tr>
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<td>56</td>
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<td>01900305</td>
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<td>0.311 mm²</td>
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<td>01900405</td>
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<td>0.327 mm²</td>
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<tr>
<td>01900505</td>
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<td>0.457 mm²</td>
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<td>0.649 mm²</td>
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<tr>
<td>01901605</td>
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</tr>
<tr>
<td>01901805</td>
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<td>0.551 mm²</td>
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<td><strong>20 AWG (≈ 16/32)</strong></td>
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<td></td>
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<tr>
<td>01900210</td>
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<td>0.551 mm²</td>
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<tr>
<td>01901210</td>
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<td>0.555 mm²</td>
<td>208</td>
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<tr>
<td>01901610</td>
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<td>0.634 mm²</td>
<td>271</td>
</tr>
<tr>
<td>01901810</td>
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<td>0.661 mm²</td>
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</tr>
<tr>
<td><strong>20 AWG (≈ 16/32)</strong></td>
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<td></td>
<td></td>
</tr>
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<td>0.398 mm²</td>
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<td>0.504 mm²</td>
<td>182</td>
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<td>01901015</td>
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<td>0.646 mm²</td>
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<td>12</td>
<td>0.661 mm²</td>
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<td>01901615</td>
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<td>0.764 mm²</td>
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BiHF/Cu/Bi(K)-J is a multi-conductor, shielded, silicone insulated control cable with a black extremely notch resistant silicone jacket. Silicone cables are recommended for use where high temperatures and UV light rapidly cause other cables to deteriorate. Recommended applications include foundries, steel mills, glass factories and other high temperature processes. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

### Construction:

<table>
<thead>
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<th>Conductor:</th>
<th>tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5</th>
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</tr>
<tr>
<td>Color code:</td>
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</tr>
<tr>
<td>Stranding:</td>
<td>in layers</td>
</tr>
<tr>
<td>Inner jacket:</td>
<td>Besilen® EM9 acc. to DIN EN 50363-2-1</td>
</tr>
<tr>
<td>Screen:</td>
<td>tinned copper braiding</td>
</tr>
<tr>
<td>Jacket material:</td>
<td>Besilen® notch resistant</td>
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<tr>
<td>Jacket color:</td>
<td>black</td>
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</tbody>
</table>

### Outstanding features:

- Improved initial tear resistance
- Improved tear-growth resistance
- Extremely notch resistant
- Good sunlight resistance
- Good EMC characteristics
- Halogen-free
- Flexible at low temperatures
- Heat resistant
- Increased mechanical protection

### Technical data:

- **Nominal voltage:** Uo/U 300/500 V
- **Testing voltage:** 2000 V
- **Min. bending radius:**
  - Free movement: 5 x O.D.
  - 10 x O.D.
- **Radiation resistance:** 2 x 10⁻⁷ cJ/kg
- **Temperature range:**
  - Static: -40/+180°C
  - Flexible: -25/+180°C
  - Short-time use: +250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing
  - acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
- **Chemical resistance:** see page O/11
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

### Item no. and dimensions:

<table>
<thead>
<tr>
<th>Item no.</th>
<th>no. of conductors incl. ground</th>
<th>nominal outer-ø inch</th>
<th>cable weight lbs/ft</th>
</tr>
</thead>
<tbody>
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<td>01950207</td>
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<td>0.323</td>
<td>0.75 mm²</td>
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<tr>
<td>01950307</td>
<td>3</td>
<td>0.335</td>
<td>0.75 mm²</td>
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<tr>
<td>01950407</td>
<td>4</td>
<td>0.354</td>
<td>0.75 mm²</td>
</tr>
<tr>
<td>01950507</td>
<td>5</td>
<td>0.382</td>
<td>0.75 mm²</td>
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<td>01950707</td>
<td>7</td>
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<td>0.539</td>
<td>0.75 mm²</td>
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</table>

<table>
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<th>Item no.</th>
<th>no. of conductors incl. ground</th>
<th>nominal outer-ø inch</th>
<th>cable weight lbs/ft</th>
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<td>1.50 mm²</td>
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<td>1.50 mm²</td>
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<tr>
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<td>4</td>
<td>0.425</td>
<td>1.50 mm²</td>
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<tr>
<td>01950515</td>
<td>5</td>
<td>0.457</td>
<td>1.50 mm²</td>
</tr>
<tr>
<td>01950715</td>
<td>7</td>
<td>0.504</td>
<td>1.50 mm²</td>
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<tr>
<td>01951215</td>
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<td>0.626</td>
<td>1.50 mm²</td>
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</table>

Other dimensions and colors are possible on request.
S 180 HT is a heavy duty, multiple-conductor, continuous flex cable with tear resistant silicone jacket. The S 180 HT is recommended for use in continuous flex applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The S 180 HT is a continuous flex, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting and injection molding machinery. This cable can also be used anywhere salt water is present, and high temperature processes are utilized.

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
- **Insulation:** FEP
- **Color code:** black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
- **Stranding:** specially adjusted layering with non-woven tape over each layer
- **Wrapping:** tape
- **Jacket material:** special Besilen®
- **Jacket color:** gray

**Technical data:**
- **Nominal voltage:** Uo/U 0.6/1 kV
- **Testing voltage:** 4000 V acc. to EN 50264
- **Min. bending radius continuous flexing:** 10 x O.D.
- **Temperature range static:** -25/+180°C
- **flexing:** -25/+180°C
- **short-time use:** +5/+200°C
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Flexibility:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Outstanding features:**
- extreme temperature resistance
- high notch resistance
- very good flexibility

**Application:**
For use in cable tracks with extremely high ambient temperatures, for example: Steel industry.

<table>
<thead>
<tr>
<th>item no.</th>
<th>no. of conductors incl. ground</th>
<th>nominal outer-Ø inch</th>
<th>cable weight lbs/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>31800315</td>
<td>3 16 AWG (≈ 84/34) 1.50 mm²</td>
<td>0.303</td>
<td>3.7 63</td>
</tr>
<tr>
<td>31800415</td>
<td>4 14 AWG (≈ 140/34) 2.50 mm²</td>
<td>0.327 0.362 0.417</td>
<td>3.7 78 99</td>
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<tr>
<td>31800515</td>
<td>5 12 AWG (≈ 224/34) 4.00 mm²</td>
<td>0.362 10.6 134</td>
<td>4.2 78 109</td>
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<td>31800715</td>
<td>7 10 AWG (≈ 186/32) 6.00 mm²</td>
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<td>4.2 78 109</td>
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<tr>
<td>31800325</td>
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<td>4 6 AWG (≈ 504/32) 16.00 mm²</td>
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<td>3.7 53</td>
</tr>
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<td>0.531 13.5</td>
<td>3.7 215</td>
</tr>
</tbody>
</table>

SAB CABLES
E-mail: info@sabcable.com
Web site: www.sabcable.com
S 180 C HT is a heavy duty, multiple-conductor, shielded, continuous flex cable with tear resistant silicone jacket. The S 180 C HT is recommended for use in continuous flex applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The S 180 C HT is a continuous flex, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting and injection molding machinery. This cable can also be used anywhere salt water is present, and high temperature processes are utilized. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

**Construction:**
- **Conductor:** tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
- **Insulation:** FEP
- **Color code:** black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
- **Stranding:** specially adjusted layering with non-woven tape over each layer
- **Wrapping:** tape
- **Screen:** tinned copper braiding
- **Jacket material:** special Besilen®
- **Jacket color:** gray

**Technical data:**
- **Nominal voltage:** Uo/U 0.6/1 kV
- **Testing voltage:** 4000 V acc. to EN 50264
- **Min. bending radius**
  - continuous flexing: 15 x O.D.
- **Temperature range**
  - static: -25/+180°C
  - flexing: -25/+180°C
  - short-time use: +5/+200°C
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Flexibility:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Outstanding features:**
- Very good EMC characteristics
- Extreme temperature resistance
- High notch resistance
- Very good flexibility

**Application:**
For use in cable tracks with extremely high ambient temperatures, for example: Steel industry.

**Item no.**

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<th>item no.</th>
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</table>

Other dimensions and colors are possible on request.

**E-mail:** info@sabcable.com
**Web site:** www.sabcable.com
**R 107 Silicone insulated copper rope**

R 107 is a silicone insulated single conductor cable with special copper stranding. It is used as current and ground connection in 3rd Rail current collectors at pantographs and as earth connection at wheel sets, coupling blocks and crane mountings on rail vehicles. The wire can be laid easily in narrow spaces due to its extremely flexible construction. EN 45545-2 certified cable for use as power cable or earthing cable in electrically operated railways. Due to its silicone outer sheath, the cable can be used at temperatures up to +250°C. The insulated copper rope has other advantages in addition to very good electrical properties.

**Construction:**

- **Conductor:** bare copper strands, extra fine wires
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1
- **Jacket color:** slate-gray (RAL 7015)

**Outstanding features:**

- extremely flexible
- fulfills fire protection requirements acc. to EN 45545-2 / R15 (EL1A) HL 1-2 / R16 (EL1B) HL 1-3
- halogen-free
- flexible at low temperatures
- heat resistant
- flame retardant and self-extinguishing
- weather resistant

**Technical data:**

- **Nominal voltage:** Uo/U 1,8/3,0 kV
- **Testing voltage:** 6500 V
- **Min. bending radius**
  - static: 5 x O.D.
  - flexible: -25/+180°C
  - short-time use: -25/+250°C
- **Zero halogen:** acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0,5% acc. to DIN EN 50267-2-2. Conductivity is < 10,0 µS/mm acc. to DIN EN 50267-2-2. Fluoric content < 0,1% acc. to DIN EN 60684-2.
- **Burning characteristics:** No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 and DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2.
- **Toxicity:** acc. to DIN EN 50305
- **Smoke density:** acc. to DIN EN 61034
- **Weather resistance:** very good
- **Ozone resistance:** acc. to DIN EN 50382-2
- **Oil resistance:** good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

**Nominal voltage up to Uo/U 1.8/3 kV AC**

**Marking for R 107 61070890: SAB BRÖCKSKES · D- VIersen · R 107 · 1.8/3 kV 25.0 mm²  6107-0890**

**On request with tinned copper strands!**

Also available with copper braiding as R108!

Especially for use on rail vehicles.

**Other dimensions and colors are possible on request.**

**E-mail:** info@sabcable.com  
**Web site:** www.sabcable.com
Marking for B 107 01071000:
SAB BRÖCKSKES · D-VIERSEN · B 107 · Uo/U 1.8/3 kV

B 107 is a silicone insulated single conductor cable with special copper stranding. It is used as current and ground connection in 3rd Rail current collectors at pantographs and as earth connection at wheel sets, coupling blocks and crane mountings on rail vehicles. The wire can be laid easily in narrow spaces due to its extremely flexible construction. The translucent insulation enables an easy inspection of the state of conductor.

**Construction:**

- **Conductor:** bare copper strands, extra fine wires
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1
- **Color:** translucent

**Outstanding features:**

- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant

**Technical data:**

- **Nominal voltage**
  - 12 - 10 AWG: Uo/U 1.5/1.5 kV
  - from 8 AWG: Uo/U 1.8/3.0 kV
- **Testing voltage**
  - 12 - 10 AWG: 4000 V
  - from 8 AWG: 6000 V
- **Min. bending radius:** 5 x O.D.
- **Temperature range**
  - static: -50/+180°C
  - flexible: -25/+180°C
  - short-time use: +5/+250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** acc. to RoHS directive of the European Union see page O/30
- **Weather resistance:** very good

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<tr>
<th>Item no.</th>
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<th>AWG</th>
<th>nominal outer-ø</th>
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Other dimensions and colors are possible on request.

E-mail: info@sabcable.com  Web site: www.sabcable.com

Especially for use on rail vehicles.
B 108 is a silicone insulated single conductor cable with special copper stranding. It is used as current and ground connection in 3rd Rail current collectors at pantographs and as earth connection at wheel sets, coupling blocks and crane mountings on rail vehicles. The wire can be laid easily in narrow spaces due to its extremely flexible construction. The translucent insulation enables an easy inspection of the state of conductor. An additional copper support braiding under the insulation provides a supplementary reinforcement for applications with high mechanical stress.

Construction:
- **Conductor:** bare copper strands, extra fine wires
- **Screen:** tinned copper braiding
- **Insulation:** Besilen® EI2 acc. to DIN EN 50363-1
- **Color:** translucent

Outstanding features:
- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant
- dimensionally stable construction

Technical data:
- **Nominal voltage**
  - 12 - 10 AWG: Uo/U 1.5/1.5 kV
  - from 8 AWG: Uo/U 1.8/3.0 kV
- **Testing voltage**
  - 12 - 10 AWG: 4000 V
  - from 8 AWG: 6000 V
- **Min. bending radius:** 5 x O.D.
- **Temperature range**
  - static: -50/+180°C
  - flexible: -25/+180°C
  - short-time use: +5/+250°C
- **Zero halogen:** acc. to DIN VDE 0472 part 815 and IEC 60754-1
- **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
- **Corrosivity:** IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 – no development of corrosive conflagration gas
- **Weather resistance:** very good
- **Absence of harmful substances:** acc. to RoHS directive of the European Union see page O/30

### Table of Sizes

<table>
<thead>
<tr>
<th>Item no.</th>
<th>mm²</th>
<th>AWG</th>
<th>nominal outer-Ø</th>
<th>cable weight lbs/ft</th>
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</table>

Other dimensions and colors are possible on request.

**E-mail:** info@sabcable.com  
**Web site:** www.sabcable.com

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**Especially for use on rail vehicles.**