



# SILICONE CABLES



## SC 600 C HDTR Shielded SABIX® 772 insulated strands with Silicone outer jacket



Marking for SC 600 C HDTR 01240410:

SAB BRÖCKSKES · D-VIERSEN · SC 600 C HDTR AWM Style 4511 200°C 600V AWM I/II A/B 200°C 600V FT1 FT2 CE

SC 600 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 600 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:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX® 722
<b>Color code:</b>	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
<b>Stranding:</b>	in layers
<b>Inner jacket:</b>	Besilen® EM9 acc. to DIN VDE 0282 part 1 + HD 22.1
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	Besilen® better than EM9 acc. to DIN VDE 0282 part 1 + HD 22.1
<b>Jacket color:</b>	black

### Technical data:

<b>Voltage:</b>	<b>UL/cUL:</b> 600 V	
<b>Nominal voltage:</b>	<b>DIN VDE:</b> Uo/U 300/500 V	
<b>Testing voltage:</b>	2000 V acc. to DIN VDE 0282 part 2 + HD 22.2 conductor/screen 2000 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<b>Radiation resistance:</b>	2 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE:</b>	<b>UL/cUL:</b> up to +200 °C
<i>static:</i>	-40/+180 °C	
<i>flexing:</i>	-25/+180 °C	
<i>short-time use:</i>	+250 °C	
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, cUL FT1 and FT2	
<b>Corrosivity:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

### Outstanding features:

- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- protection against mechanical damage
- UL/cUL recognition

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ <b>19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b>					▶ <b>16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>					▶ <b>12 AWG (≈ 52/28) • 4.00 mm<sup>2</sup></b>				
01241902	2	0.323	8.2	62	01241602	2	0.370	9.4	87	01241203	3	0.543	13.8	221
01241903	3	0.335	8.5	68	01241603	3	0.394	10.0	110	01241204	4	0.583	14.8	258
01241904	4	0.354	9.0	83	01241604	4	0.425	10.8	129	01241205	5	0.657	16.7	323
01241905	5	0.382	9.7	93	01241605	5	0.457	11.6	158	▶ <b>10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
▶ <b>18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>					01241607	7	0.504	12.8	186	01241003	3	0.594	15.1	266
01241802	2	0.331	8.4	68	▶ <b>14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>					01241004	4	0.661	16.8	352
01241803	3	0.343	8.7	81	01241402	2	0.441	11.2	141	01241005	5	0.713	18.1	390
01241804	4	0.366	9.3	91	01241403	3	0.461	11.7	157	Other dimensions and colors are possible on request.				
01241805	5	0.398	10.1	112	01241404	4	0.508	12.9	190					
01241807	7	0.433	11.0	136	01241405	5	0.563	14.3	226					