

# High Temperature Cables

## SC 700 C HDTR

Besilen® insulated strands with overall copper shield and Besilen® outer jacket

temperature range up to +200°C



Marking for SC 700 C HDTR 1261904:

SAB BRÖCKSKES · D-VIERSEN · SC 700 C HDTR AWM Style 4511 200°C 600V cUL AWM I/II A/B 200°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	< 10 mm <sup>2</sup> : nickel-plated copper strands ≥ 10 mm <sup>2</sup> : tinned copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Insulation:</b>	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293-308), from 6 conductors- black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, from 3 conductors- a green/yellow ground
<b>Stranding:</b>	in layers
<b>Inner jacket:</b>	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
<b>Shielding:</b>	tinned copper braiding
<b>Jacket material:</b>	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
<b>Jacket color:</b>	black (similar RAL 9011)

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V	
<b>Voltage UL/CSA:</b>	600 V	
<b>Testing voltage:</b>	conductor/conductor: 2000 V conductor/shielding: 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> <i>static:</i> -40/+180°C <i>flexible:</i> -25/+180°C <i>short-term use:</i> +250°C	<b>UL/CSA:</b> up to +200°C
<b>Halogen-free</b>	acc. to IEC 60754-1 + VDE 0482-754-1	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, cUL FT1, FT2	
<b>Corrosivity:</b>	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	
<b>Approvals:</b>	UR AWM, cUR AWM, CE, EAC, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

### Outstanding features:



- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- UL/cUL recognized
- rated for 200°C

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm<sup>2</sup></b>				
1261902	2	0.323	8.2	58
1261903	3	0.335	8.5	65
1261904	4	0.354	9.0	75
1261905	5	0.382	9.7	87
<b>▶ 18 AWG (≈ 30/32) ▪ 1.00 mm<sup>2</sup></b>				
1261802	2	0.331	8.4	62
1261803	3	0.343	8.7	77
1261804	4	0.366	9.3	83
1261805	5	0.398	10.1	106
1261807	7	0.433	11.0	126

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm<sup>2</sup></b>				
1261602	2	0.370	9.4	79
1261603	3	0.394	10.0	100
1261604	4	0.425	10.8	118
1261605	5	0.457	11.6	138
1261607	7	0.504	12.8	172
<b>▶ 14 AWG (≈ 46/30) ▪ 2.50 mm<sup>2</sup></b>				
1261402	2	0.441	11.2	121
1261403	3	0.461	11.7	139
1261404	4	0.508	12.9	174
1261405	5	0.563	14.3	210

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 12 AWG (≈ 52/28) ▪ 4.00 mm<sup>2</sup></b>				
1261203	3	0.543	13.8	197
1261204	4	0.583	14.8	233
1261205	5	0.657	16.7	302
<b>▶ 10 AWG (≈ 78/28) ▪ 6.00 mm<sup>2</sup></b>				
1261003	3	0.594	15.1	251
1261004	4	0.661	16.8	335
1261005	5	0.713	18.1	382

Other dimensions and colors are available on request