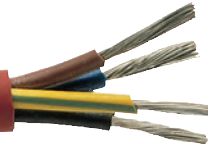


# High Temperature Cables

## SC 600 HDTR

Besilen® insulated conductors with silicone outer jacket

535 150°C 600V CSA AWM I/II A 150°C 600V FT1 FT2 CE



Marking for SC 600 HDTR 1271804:

SAB BRÖCKSKES · D-VIERSEN · SC 600 HDTR AWM Style 4535 150°C 600V CSA AWM I/II A 150°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	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>Jacket material:</b>	Besilen® better than EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
<b>Jacket color:</b>	reddish brown (similar RAL 3016)

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V	
<b>Voltage UL/CSA:</b>	600 V	
<b>Testing voltage:</b>	conductor/conductor: 2000 V	
<b>Min. bending radius:</b>		
<i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	6 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/CSA:</b>
<i>static:</i>	-40/+180°C +200°C (2000h)	up to +150°C Style 4535
<i>flexible:</i>	-25/+180°C	
<i>short-term use:</i>	+250°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, CSA FT1, FT2	
<b>Corrosivity:</b>	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	
<b>Approvals:</b>	UR AWM, CSA AWM, CE, EAC, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

### Outstanding features:



- halogen-free
- flexible at low temperatures
- heat resistant
- UL recognized and CSA approved

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 20 AWG (≈ 16/32) ▪ 0.50 mm<sup>2</sup></b>				
1272002	2	0.220	5.6	26
1272003	3	0.232	5.9	30
1272004	4	0.248	6.3	36
1272005	5	0.272	6.9	42
1272007	7	0.295	7.5	53
1272008	8	0.339	8.6	61
1272010	10	0.366	9.3	73
1272012	12	0.378	9.6	83
1272016	16	0.417	10.6	105
1272018	18	0.441	11.2	117
1272024	24	0.516	13.1	161
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm<sup>2</sup></b>				
1271902	2	0.232	5.9	31
1271903	3	0.252	6.4	36
1271904	4	0.272	6.9	44
1271905	5	0.299	7.6	52
1271907	7	0.323	8.2	66
1271908	8	0.374	9.5	76
1271910	10	0.406	10.3	91
1271912	12	0.417	10.6	104
1271916	16	0.465	11.8	132
1271918	18	0.492	12.5	148
1271924	24	0.583	14.8	206
<b>▶ 18 AWG (≈ 30/32) ▪ 1.00 mm<sup>2</sup></b>				
1271802	2	0.248	6.3	34
1271803	3	0.260	6.6	42
1271804	4	0.283	7.2	50
1271805	5	0.307	7.8	60
1271807	7	0.335	8.5	77
1271808	8	0.386	9.8	89
1271810	10	0.421	10.7	106
1271812	12	0.433	11.0	122
1271816	16	0.480	12.2	157
1271818	18	0.512	13.0	176
1271824	24	0.626	15.9	255

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>				
1271602	2	0.280	7.1	46
1271603	3	0.295	7.5	56
1271604	4	0.315	8.0	67
1271605	5	0.350	8.9	81
1271607	7	0.382	9.7	105
1271608	8	0.449	11.4	122
1271610	10	0.496	12.6	150
1271612	12	0.512	13.0	173
1271616	16	0.583	14.8	229
1271618	18	0.614	15.6	255
1271624	24	0.724	18.4	339
<b>▶ 14 AWG (≈ 46/30) ▪ 2.50 mm<sup>2</sup></b>				
1271402	2	0.335	8.5	68
1271403	3	0.354	9.0	85
1271404	4	0.386	9.8	104
1271405	5	0.437	11.1	129
1271407	7	0.476	12.1	168
1271408	8	0.563	14.3	197
1271410	10	0.622	15.8	241
1271412	12	0.642	16.3	279
1271416	16	0.720	18.3	363
1271418	18	0.760	19.3	403
1271424	24	0.913	23.2	597
<b>▶ 12 AWG (≈ 52/28) ▪ 4.00 mm<sup>2</sup></b>				
1271202	2	0.382	9.7	91
1271203	3	0.417	10.6	124
1271204	4	0.457	11.6	155
1271205	5	0.508	12.9	189
1271207	7	0.555	14.1	248
<b>▶ 10 AWG (≈ 78/28) ▪ 6.00 mm<sup>2</sup></b>				
1271002	2	0.441	11.2	134
1271003	3	0.461	11.7	167
1271004	4	0.512	13.0	212
1271005	5	0.563	14.3	256
1271007	7	0.630	16.0	348

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 8 AWG (≈ 77/26) ▪ 10.00 mm<sup>2</sup></b>				
1270802	2	0.575	14.6	228
1270803	3	0.610	15.5	291
1270804	4	0.669	17.0	363
1270805	5	0.744	18.9	443
1270807	7	0.831	21.1	601
<b>▶ 6 AWG (≈ 122/26) ▪ 16.00 mm<sup>2</sup></b>				
1270602	2	0.669	17.0	329
1270603	3	0.736	18.7	429
1270604	4	0.807	20.5	537
1270605	5	0.823	20.9	650
1270607	7	1.012	25.7	893
<b>▶ 4 AWG (≈ 190/26) ▪ 25.00 mm<sup>2</sup></b>				
1270402	2	0.850	21.6	518
1270403	3	0.906	23.0	665
1270404	4	1.008	25.6	849
<b>▶ 2 AWG (≈ 77/26) ▪ 35.00 mm<sup>2</sup></b>				
1270202	2	0.976	24.8	722
1270203	3	1.039	26.4	935
1270204	4	1.142	29.0	1181

Other dimensions and colors are available on request



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