

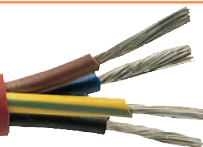
High Temperature Cables

SC 700 HDTR

Besilen® insulated strands with Besilen® outer jacket

temperature range up to +200°C

11 200°C 600V cUL AWM I/II A/B 200°C 600V FT1 FT2 CE



Marking for SC 700 HDTR 1251804:

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

Construction:

Conductor:	< 10 mm ² : nickel-plated copper strands ≥ 10 mm ² : tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
Color code:	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
Stranding:	in layers
Jacket material:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	reddish brown (similar RAL 3016)

Technical data:

Nominal voltage:	Uo/U 300/500 V	
Voltage UL/CSA:	600 V	
Testing voltage:	conductor/conductor: 2000 V	
Min. bending radius:		
<i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	6 x O.D.	
Radiation resistance:	2 x 10 ⁷ cJ/kg	
Temperature range:	DIN VDE	UL/cUL:
<i>static:</i>	-40/+180°C	up to +200°C
<i>flexible:</i>	-25/+180°C	
<i>short-term use:</i>	+250°C	
Halogen-free	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, cUL FT1, FT2	
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	
Approvals:	UR AWM, cUR AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:

- 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
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
1252002	2	0.220	5.6	26
1252003	3	0.232	5.9	31
1252004	4	0.248	6.3	36
1252005	5	0.272	6.9	44
1252007	7	0.295	7.5	54
1252008	8	0.339	8.6	69
1252010	10	0.366	9.3	74
1252012	12	0.378	9.6	85
1252016	16	0.417	10.6	109
1252018	18	0.441	11.2	122
1252024	24	0.516	13.1	155
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1251902	2	0.232	5.9	31
1251903	3	0.252	6.4	37
1251904	4	0.272	6.9	44
1251905	5	0.299	7.6	55
1251907	7	0.323	8.2	67
1251908	8	0.374	9.5	85
1251910	10	0.406	10.3	92
1251912	12	0.417	10.6	105
1251916	16	0.465	11.8	136
1251918	18	0.492	12.5	155
1251924	24	0.583	14.8	199
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1251802	2	0.248	6.3	35
1251803	3	0.260	6.6	42
1251804	4	0.283	7.2	52
1251805	5	0.307	7.8	63
1251807	7	0.335	8.5	79
1251808	8	0.386	9.8	98
1251810	10	0.421	10.7	108
1251812	12	0.433	11.0	124
1251816	16	0.480	12.2	161
1251818	18	0.512	13.0	182
1251824	24	0.626	15.9	249

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1251602	2	0.280	7.1	46
1251603	3	0.295	7.5	56
1251604	4	0.315	8.0	68
1251605	5	0.350	8.9	85
1251607	7	0.382	9.7	107
1251608	8	0.449	11.4	134
1251610	10	0.496	12.6	152
1251612	12	0.512	13.0	176
1251616	16	0.583	14.8	235
1251618	18	0.614	15.6	263
1251624	24	0.724	18.4	343
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1251402	2	0.335	8.5	69
1251403	3	0.354	9.0	85
1251404	4	0.386	9.8	108
1251405	5	0.437	11.1	134
1251407	7	0.476	12.1	171
1251408	8	0.563	14.3	220
1251410	10	0.622	15.8	245
1251412	12	0.642	16.3	283
1251416	16	0.720	18.3	372
1251418	18	0.760	19.3	417
1251424	24	0.913	23.2	550
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
1251202	2	0.382	9.7	92
1251203	3	0.417	10.6	126
1251204	4	0.457	11.6	156
1251205	5	0.508	12.9	196
1251207	7	0.555	14.1	251
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
1251002	2	0.457	11.6	135
1251003	3	0.484	12.3	161
1251004	4	0.528	13.4	217
1251005	5	0.598	15.3	274
1251007	7	0.654	16.6	351

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 8 AWG (≈ 77/26) ▪ 10.00 mm²				
1250802	2	0.575	14.6	230
1250803	3	0.610	15.5	293
1250804	4	0.669	17.0	367
1250805	5	0.744	18.9	458
1250807	7	0.831	21.1	595
▶ 6 AWG (≈ 122/26) ▪ 16.00 mm²				
1250602	2	0.669	17.0	341
1250603	3	0.736	18.7	438
1250604	4	0.807	20.5	576
1250605	5	0.823	20.9	683
1250607	7	1.012	25.7	916
▶ 4 AWG (≈ 190/26) ▪ 25.00 mm²				
1250402	2	0.850	21.6	521
1250403	3	0.906	23.0	671
1250404	4	1.008	25.6	857
▶ 2 AWG (≈ 77/26) ▪ 35.00 mm²				
1250202	2	0.976	24.8	712
1250203	3	1.039	26.4	922
1250204	4	1.142	29.0	1162

Other dimensions and colors are available on request