

High Temperature Cables

SC 600 HDTRS

Besilen® insulated conductors with silicone outer jacket and steel wire armoring for mechanical protection



Marking for SC 600 HDTRS 1281803:

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

Construction:

Conductor:	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® better than EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	reddish brown (similar RAL 3016)
Armor:	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:

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/CSA:
<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	
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, CSA FT1, FT2	
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1281902	2	0.272	6.9	44
1281903	3	0.283	7.2	50
1281904	4	0.303	7.7	58
1281905	5	0.331	8.4	70
1281906	6	0.354	9.0	78
1281907	7	0.354	9.0	84
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1281802	2	0.280	7.1	48
1281803	3	0.291	7.4	56
1281804	4	0.315	8.0	65
1281805	5	0.339	8.6	78
1281806	6	0.366	9.3	88
1281807	7	0.366	9.3	95

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1281602	2	0.311	7.9	60
1281603	3	0.327	8.3	73
1281604	4	0.346	8.8	85
1281605	5	0.382	9.7	99
1281606	6	0.413	10.5	116
1281607	7	0.413	10.5	128
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1281402	2	0.366	9.3	86
1281403	3	0.386	9.8	103
1281404	4	0.417	10.6	126
1281405	5	0.469	11.9	152
1281406	6	0.508	12.9	174
1281407	7	0.508	12.9	192

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
1281202	2	0.413	10.5	114
1281203	3	0.449	11.4	147
1281204	4	0.488	12.4	177
1281205	5	0.539	13.7	220
1281206	6	0.587	14.9	253
1281207	7	0.587	14.9	280
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
1281002	2	0.472	12.0	157
1281003	3	0.500	12.7	194
1281004	4	0.543	13.8	244
1281005	5	0.594	15.1	288

Other dimensions and colors are available on request



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