

High Temperature Cables

SC 600 C HDTR

Shielded Besilen® insulated conductors with silicone outer jacket



Marking for SC 600 C HDTR 1241804:

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

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
Inner jacket:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Shielding:	tinned copper braiding
Jacket material:	Besilen® better than EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	black (similar RAL 9011)

Outstanding features:

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

Technical data:

Nominal voltage:	U ₀ /U 300/500 V	
Voltage UL/CSA:	600 V	
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 2000 V	
Min. bending radius:		
fixed installation:	4 x O.D.	
free movement:	6 x O.D.	
Radiation resistance:	2 x 10 ⁷ cJ/kg	
Temperature range:	DIN VDE	UL/CSA:
static:	-40/+180°C +200°C (2000h)	up to +150°C Style 4535
flexible:	-25/+180°C	
short-term use:	+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	

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1241902	2	0.323	8.2	62
1241903	3	0.335	8.5	68
1241904	4	0.354	9.0	83
1241905	5	0.382	9.7	93
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1241802	2	0.331	8.4	68
1241803	3	0.343	8.7	81
1241804	4	0.366	9.3	91
1241805	5	0.398	10.1	112
1241807	7	0.433	11.0	136

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1241602	2	0.370	9.4	87
1241603	3	0.394	10.0	110
1241604	4	0.425	10.8	129
1241605	5	0.457	11.6	158
1241607	7	0.504	12.8	186
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1241402	2	0.441	11.2	141
1241403	3	0.461	11.7	157
1241404	4	0.508	12.9	189
1241405	5	0.563	14.3	226

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
1241203	3	0.543	13.8	221
1241204	4	0.583	14.8	258
1241205	5	0.657	16.7	323
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
1241003	3	0.594	15.1	266
1241004	4	0.661	16.8	352
1241005	5	0.713	18.1	390

Other dimensions and colors are available on request



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