

High Temperature Cables

S 180 C HT

Continuous flex shielded control cable with silicone outer jacket for cable tracks

+180°C

SABFlex



Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	FEP
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 from 3 conductors- a green/yellow ground
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	tape
Shielding:	tinned copper braiding
Jacket material:	special Besilen®
Jacket color:	gray (similar RAL 7000)

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage:	conductor/conductor: 4000 V conductor/shielding: 4000 V
Min. bending radius: <i>continuously flexible:</i>	15 x O.D.
Temperature range: <i>static:</i> <i>flexing:</i> <i>short-term use:</i>	-25/+180°C -25/+180°C +200°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Flexibility:	very good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



- very good EMC characteristics
- extreme temperature resistance
- high notch resistance
- very good flexibility

item no.	no. of conductors incl. ground	outer-ø ± 5%		cable weight ≈lbs/mft
		inch	mm	
▶ 16 AWG (≈ 89/34) ▪ 1.50 mm²				
31850315	3	0.319	8.1	74
31850415	4	0.350	8.9	92
31850515	5	0.378	9.6	112
31850715	7	0.449	11.4	161
▶ 14 AWG (≈ 140/34) ▪ 2.50 mm²				
31850325	3	0.386	9.8	110
31850425	4	0.437	11.1	148
31850525	5	0.476	12.1	180
31850725	7	0.551	14.0	245
31852025	20	0.827	21.0	575

item no.	no. of conductors incl. ground	outer-ø ± 5%		cable weight ≈lbs/mft
		inch	mm	
▶ 12 AWG (≈ 224/34) ▪ 4.00 mm²				
31850440	4	0.500	12.7	204
31850540	5	0.551	14.0	254
31850740	7	0.657	16.7	363
31851240	12	0.799	20.3	531
▶ 10 AWG (≈ 186/32) ▪ 6.00 mm²				
31850360	3	0.551	14.0	229
31850460	4	0.598	15.2	307
31850560	5	0.677	17.2	382
31850760	7	0.795	20.2	524
▶ 8 AWG (≈ 320/32) ▪ 10.00 mm²				
31850461	4	0.701	17.8	459
31850561	5	0.776	19.7	556

item no.	no. of conductors incl. ground	outer-ø ± 5%		cable weight ≈lbs/mft
		inch	mm	
▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²				
31850462	4	0.846	21.5	677
31850562	5	0.945	24.0	844
▶ 4 AWG (≈ 760/32) ▪ 25.00 mm²				
31850463	4	0.992	25.2	970
▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm²				
31850464	4	1.142	29	1299
▶ 3/0 AWG (≈ 1340/28) ▪ 95 mm²				
31850167	1	0.878	22.3	825
▶ 250 MCM (≈ 2122/28) ▪ 150 mm²				
31850170	1	1.126	28.6	1512

Other dimensions and colors are available on request



Application:
for use in cable tracks with
extremely high ambient
temperatures
for example: steel industry