

# High Temperature Cables

## S 180 HT

Continuous flex control cable with silicone outer jacket for cable tracks

+180°C

SABFlex



### Construction:

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

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	Uo/U 0.6/1 kV
<b>Testing voltage:</b>	conductor/conductor: 4000 V
<b>Min. bending radius:</b> <i>continuously flexible:</i>	10 x O.D.
<b>Temperature range:</b> <i>static:</i> <i>flexing:</i> <i>short-term use:</i>	-25/+180°C -25/+180°C +200°C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Flexibility:</b>	very good
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	outer-ø ± 5%		cable weight ≈lbs/mft
		inch	mm	
<b>▶ 16 AWG (≈ 84/34) ▪ 1.50 mm<sup>2</sup></b>				
31800315	3	0.303	7.7	63
31800415	4	0.327	8.3	78
31800515	5	0.362	9.2	99
31800715	7	0.417	10.6	134
<b>▶ 14 AWG (≈ 140/34) ▪ 2.50 mm<sup>2</sup></b>				
31800325	3	0.370	9.4	97
31800425	4	0.398	10.1	119
31800525	5	0.453	11.5	153
31800625	6	0.504	12.8	180
31800725	7	0.531	13.5	215
31801225	12	0.650	16.5	316
31802025	20	0.795	20.2	512

item no.	no. of conductors incl. ground	outer-ø ± 5%		cable weight ≈lbs/mft
		inch	mm	
<b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b>				
31800440	4	0.480	12.2	177
31800540	5	0.528	13.4	224
31800740	7	0.626	15.9	315
31801240	12	0.772	19.6	475
<b>▶ 10 AWG (≈ 186/32) ▪ 6.00 mm<sup>2</sup></b>				
31800360	3	0.528	13.4	203
31800460	4	0.575	14.6	274
31800560	5	0.646	16.4	333
31800760	7	0.764	19.4	468
<b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm<sup>2</sup></b>				
31800361	3	0.602	15.3	307
31800461	4	0.669	17.0	409
31800561	5	0.744	18.9	501

item no.	no. of conductors incl. ground	outer-ø ± 5%		cable weight ≈lbs/mft
		inch	mm	
<b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm<sup>2</sup></b>				
31800462	4	0.815	20.7	613
31800562	5	0.913	23.2	770
<b>▶ 4 AWG (≈ 760/32) ▪ 25.00 mm<sup>2</sup></b>				
31800363	3	0.846	21.5	671
31800463	4	0.945	24.0	882
<b>▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm<sup>2</sup></b>				
31800164	1	0.508	12.9	288
31800464	4	1.110	28.2	1209
<b>▶ 3/0 AWG (≈ 1340/28) ▪ 95 mm<sup>2</sup></b>				
31800167	1	0.831	21.1	750
<b>▶ 250 MCM (≈ 2122/28) ▪ 150 mm<sup>2</sup></b>				
31800169	1	1.004	25.5	1172

Other dimensions and colors are available on request



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