

HIGH TEMPERATURE CABLES

S 180 HT Continuous flex control cable with silicone outer jacket for cable tracks



S 180 HT is a heavy duty, multiple-conductor, continuous flex cable with tear resistant silicone jacket. The S 180 HT is recommended for use in continuous flex applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The S 180 HT is a continuous flex, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting and injection molding machinery. This cable can also be used anywhere salt water is present, and high temperature processes are utilized.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	FEP
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	tape
Jacket material:	special Besilen®
Jacket color:	gray

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage:	4000 V acc. to EN 50264
Min. bending radius continuous flexing:	10 x O.D.
Temperature range	
<i>static:</i>	-25/+180°C
<i>flexing:</i>	-25/+180°C
<i>short-time use:</i>	+200°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

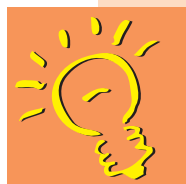
- extreme temperature resistance
- high notch resistance
- very good flexibility

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 84/34) • 1.50 mm ²				
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
▶ 14 AWG (≈ 140/34) • 2.50 mm ²				
31800325	3	0.370	9.4	97
31800425	4	0.398	10.1	119
31800525	5	0.453	11.5	153
31800725	7	0.531	13.5	215

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 224/34) • 4.00 mm ²				
31800440	4	0.476	12.1	178
31800540	5	0.528	13.4	224
31800740	7	0.626	15.9	315
▶ 10 AWG (≈ 186/32) • 6.00 mm ²				
31800460	4	0.575	14.6	274
31800560	5	0.646	16.4	333
31800760	7	0.764	19.4	468

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 8 AWG (≈ 320/32) • 10.00 mm ²				
31800461	4	0.669	17.0	409
31800561	5	0.744	18.9	501
▶ 6 AWG (≈ 504/32) • 16.00 mm ²				
31800462	4	0.815	20.7	613
31800562	5	0.913	23.2	770
▶ 4 AWG (≈ 760/32) • 25.00 mm ²				
31800463	4	0.945	24.0	882
▶ 2 AWG (≈ 1083/32) • 35.00 mm ²				
31800464	4	1.110	28.2	1210

Other dimensions and colors are possible on request.



Application:
For use in cable tracks with extremely high ambient temperatures, for example: Steel industry.