

HIGH TEMPERATURE CABLES



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



S 180 C HT is a heavy duty, multiple-conductor, shielded, continuous flex cable with tear resistant silicone jacket. The S 180 C 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 C 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. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

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
Screen:	tinned copper braiding
Jacket material:	special Besilen®
Jacket color:	gray

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage:	4000 V acc. to EN 50264
Min. bending radius continuous flexing:	15 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:

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

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item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft	item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft	item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 16 AWG (\approx 84/34) • 1.50 mm²					▶ 12 AWG (\approx 224/34) • 4.00 mm²					▶ 8 AWG (\approx 320/32) • 10.00 mm²				
31850315	3	0.319	8.1	74	31850440	4	0.500	12.7	204	31850461	4	0.701	17.8	459
31850415	4	0.350	8.9	92	31850540	5	0.551	14.0	254	31850561	5	0.776	19.7	556
31850515	5	0.378	9.6	112	31850740	7	0.657	16.7	364	▶ 6 AWG (\approx 504/32) • 16.00 mm²				
31850715	7	0.449	11.4	161	▶ 10 AWG (\approx 186/32) • 6.00 mm²					31850462	4	0.846	21.5	677
▶ 14 AWG (\approx 140/34) • 2.50 mm²					31850460	4	0.598	15.2	307	31850562	5	0.945	24.0	844
31850325	3	0.386	9.8	110	31850560	5	0.677	17.2	382	▶ 4 AWG (\approx 760/32) • 25.00 mm²				
31850425	4	0.437	11.1	149	31850760	7	0.795	20.2	524	31850463	4	0.992	25.2	970
31850525	5	0.476	12.1	180	▶ 2 AWG (\approx 1083/32) • 35.00 mm²					31850464	4	1.142	29.0	1300
31850725	7	0.551	14.0	245	Other dimensions and colors are possible on request.									



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