

SILICONE CABLES

S 180 C HT Continuous flex shielded control cable with Silicone outer jacke for cable tracks



Marking for S 180 C HT 31850440:
SAB BRÖCKSKES · D-VIERSEN · S 180 C HT CE

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 U:	4000 V acc. to EN 50264
Min. bending radius continuous flexing:	15 x O.D.
Temperature range static:	-25/+180 °C
flexing:	-25/+180 °C
short-time use:	+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 N/28

Outstanding features:

- very good EMC characteristics
- 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 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	149
31850525	5	0.476	12.1	180
31850725	7	0.551	14.0	245

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 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	364
▶ 10 AWG (≈ 186/32) • 6.00 mm²				
31850460	4	0.598	15.2	307
31850560	5	0.677	17.2	382
31850760	7	0.795	20.2	524

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 8 AWG (≈ 320/32) • 10.00 mm²				
31850461	4	0.701	17.8	459
31850561	5	0.776	19.7	556
▶ 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	29.0	1300

Other dimensions and colors are possible on request.



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