

HIGH TEMPERATURE CABLES



SC 113 Silicone insulated hook-up wire



SC 113 is a high temperature single conductor silicone wire recommended for use in applications where temperature exceeds the maximum rating of traditional plastic and rubber insulated wires. This cable is a flexible, cost-effective wire. Recommended applications include foundries, steel mills and glass factories, and other high temperature processes and is recommended wherever an overall abrasion resistant covering is required.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to DIN EN 50363-1

Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage:	2000 V
Min. bending radius:	7.5 x O.D.
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+180°C
<i>flexible:</i>	-25/+180°C
<i>short-time use:</i>	+250°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosivity:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Chemical resistance:	see page O/11
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	mm ²	AWG	nominal inch	outer- ϕ mm	cable weight ≈ lbs/mft
▶ 0113002...*	0.25	24 (≈ 14/34)	0.067	1.7	3
▶ 0113003...*	0.34	22 (≈ 7/30)	0.071	1.8	4
▶ 0113005...*	0.50	20 (≈ 16/32)	0.075	1.9	5
▶ 0113007...*	0.75	19 (≈ 23/32)	0.087	2.2	7
▶ 0113010...*	1.00	18 (≈ 30/32)	0.091	2.3	9
▶ 0113015...*	1.50	16 (≈ 27-29/30)	0.110	2.8	12
▶ 0113025...*	2.50	14 (≈ 46/30)	0.134	3.4	19
▶ 0113040...*	4.00	12 (≈ 52/28)	0.157	4.0	30
▶ 0113060...*	6.00	10 (≈ 78/28)	0.177	4.5	42
▶ 0113100...*	10.00	8 (≈ 77/26)	0.240	6.1	72
▶ 0113160...*	16.00	6 (≈ 122/26)	0.295	7.5	112
▶ 0113250...*	25.00	4 (≈ 190/26)	0.366	9.3	182
▶ 0113350...*	35.00	2 (≈ 272/26)	0.421	10.7	253
▶ 0113500...*	50.00	1 (≈ 400/26)	0.484	12.3	351
▶ 0113700...*	70.00	2/0 (≈ 543/26)	0.575	14.6	479
▶ 0113950...*	95.00	3/0 (≈ 484/24)	0.689	17.5	646
▶ 0113120...*	120.00	4/0 (≈ 589/24)	0.748	19.0	791
▶ 0113150...*	150.00	250 MCM (≈ 740/24)	0.823	20.9	982
▶ 0113185...*	185.00	350 MCM (≈ 902/24)	0.906	23.0	1200
▶ 0113240...*	240.00	450 MCM (≈ 1220/24)	1.059	26.9	1615
▶ 0113300...*	300.00	550 MCM (≈ 1525/24)	1.181	30.0	2015

Other dimensions and colors are possible on request.

* Color code for single conductors:

...0 = green-yellow	...4 = gray
...1 = blue	...5 = white
...2 = black	...6 = reddish brown
...3 = brown	...7 = red