

SiF

Silicone single core, finely stranded, tinned wire, increased temperature resistance



TECHNICAL DATA

Silicone single core in alignment with DIN VDE 0250-1, DIN VDE 0250-502

Temperature range flexible -25°C to +180°C
fixed -60°C to +180°C

Permissible operating temperature of the conductor +180°C

Nominal voltage AC U₀/U 300/500 V

Test voltage 2000 V

Breakdown voltage 5000 V

Minimum bending radius flexible 15x Outer-Ø
fixed 6x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, finely stranded, 0.5 - 185 mm²: acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Wire structure: 0.25 mm²: approx. 8 x 0.2 mm
- Core insulation: Silicone
- Core identification: see table

PROPERTIES

- resistant to: ozone, oxygen, alcohols, dilute acids, alkalis, saline solutions, oxidising agents, high molecular weight oils, vegetable and animal fats, plasticisers and clophen, seawater
- halogen-free
- high flash point

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

APPLICATION

Temperature resistant silicone single core for use in iron, steel and rolling mills, foundries, cement, glass and ceramic factories as well as in aircraft construction and ship building.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for fixed installation, always install in open, ventilated pipe or duct systems; otherwise, a combination of high temperatures above 90°C and the absence of air would affect the mechanical properties of silicone

Cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	black Part no.	green-yellow Part no.	blue Part no.	brown Part no.	red Part no.	white Part no.	grey Part no.	violet Part no.
0.25	24	1.6	2.4	5.5	23201	23213	23203	23204	23202	23205	23206	23207
0.5	20	2.1	4.8	8.6	23301	23313	23303	23304	23302	23305	23306	23307
0.75	19	2.4	7.2	11.8	23401	23413	23403	23404	23402	23405	23406	23407
1	18	2.5	9.6	13.5	23501	23513	23503	23504	23502	23505	23506	23507
1.5	16	2.8	14.4	18.5	23601	23613	23603	23604	23602	23605	23606	23607
2.5	14	3.4	24.0	30.0	23701	23713	23703	23704	23702	23705	23706	23707
4	12	4.2	38.0	47.3	23801	23813	23803	23804	23802	23805	23806	23807
6	10	5.0	58.0	71.1	23901	23913	23903	23904	23902	23905	23906	23907
10	8	6.6	96.0	119.4	24601	24613	24603	24604	24602	24605	24606	24607
16	6	7.4	154.0	187.7	24701	24713	24703	24704	24702	24705	24706	24707
25	4	9.2	240.0	289.6	24801	24813	24803	24804	24802	24805	24806	24807
35	2	10.3	336.0	398.0	23953	451113	451103	451104	451102	451105	451106	451107
50	1	12.0	480.0	560.0	23954	451213	451203	451204	451202	451205	451206	451207
70	2/0	13.8	672.0	766.0	23955	451313	451303	451304	451302	451305	451306	451307
95	3/0	16.2	912.0	1032.0	23956	451413	451403	451404	451402	451405	451406	451407
120	4/0	17.6	1152.0	1285.0	23957	451513	451503	451504	451502	451505	451506	451507
150	300 kcmil	19.6	1440.0	1564.0	23958	451613	451603	451604	451602	451605	451606	451607
185	350 kcmil	22.4	1776.0	1859.0	23959	451713	451703	451704	451702	451705	451706	451707

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Cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	orange Part no.	green Part no.	pink Part no.	beige Part no.	yellow Part no.	transparent Part no.
0.25	24	1.6	2.4	5.5	23209	23200	23211	23212	23208	23210
0.5	20	2.1	4.8	8.6	23309	23300	23311	23312	23308	23310
0.75	19	2.4	7.2	11.8	23409	23400	23411	23412	23408	23410
1	18	2.5	9.6	13.5	23509	23500	23511	23512	23508	23510
1.5	16	2.8	14.4	18.5	23609	23600	23611	23612	23608	23610
2.5	14	3.4	24.0	30.0	23709	23700	23711	23712	23708	23710
4	12	4.2	38.0	47.3	23809	23800	23811	23812	23808	23810
6	10	5.0	58.0	71.1	23909	23900	23911	23912	23908	23910
10	8	6.6	96.0	119.4	24609	24600	24611	24612	24608	24610
16	6	7.4	154.0	187.7	24709	24700	24711	24712	24708	24710
25	4	9.2	240.0	289.6	24809	24800	24811	24812	24808	24810
35	2	10.3	336.0	398.0	451109	451100	451111	451112	451108	451110
50	1	12.0	480.0	560.0	451209	451200	451211	451212	451208	451210
70	2/0	13.8	672.0	766.0	451309	451300	451311	451312	451308	451310
95	3/0	16.2	912.0	1032.0	451409	451400	451411	451412	451408	451410
120	4/0	17.6	1152.0	1285.0	451509	451500	451511	451512	451508	451510
150	300 kcmil	19.6	1440.0	1564.0	451609	451600	451611	451612	451608	451610
185	350 kcmil	22.4	1776.0	1859.0	451709	451700	451711	451712	451708	451710



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