



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 U ₀ /U 300/500 V
Test voltage	2000 V
Breakdown voltage	5000 V
Minimum bending radius	flexible 12.5x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, 0.5 - 10 mm²: extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Strand construction:
0.25 mm²: approx. 65 x 0.07 mm
- Core insulation: silicone

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
- certifications and approvals:
EAC

APPLICATION

Temperature resistant silicone single core with extra finely stranded wire 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 factor per 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	1.8	2.4	6.0	45101	45113	45103	45104	45102	45105	45106	45107
0.5	20	2.2	4.8	10.0	45201	45213	45203	45204	45202	45205	45206	45207
0.75	19	2.5	7.2	13.0	45301	45313	45303	45304	45302	45305	45306	45307
1	18	2.6	9.6	15.0	45401	45413	45403	45404	45402	45405	45406	45407
1.5	16	2.9	14.4	19.0	45501	45513	45503	45504	45502	45505	45506	45507
2.5	14	3.5	24.0	32.0	45601	45613	45603	45604	45602	45605	45606	45607
4	12	4.4	38.0	50.0	45701	45713	45703	45704	45702	45705	45706	45707
6	10	5.2	58.0	73.0	45801	45813	45803	45804	45802	45805	45806	45807
10	8	6.8	96.0	125.0	45901	45913	45903	45904	45902	45905	45906	45907

Cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	yellow Part no.	orange Part no.	green Part no.	pink Part no.	beige Part no.	transparent Part no.
0.25	24	1.8	2.4	6.0	45108	45109	45100	45111	45112	45110
0.5	20	2.2	4.8	10.0	45208	45209	45200	45211	45212	45210
0.75	19	2.5	7.2	13.0	45308	45309	45300	45311	45312	45310
1	18	2.6	9.6	15.0	45408	45409	45400	45411	45412	45410
1.5	16	2.9	14.4	19.0	45508	45509	45500	45511	45512	45510
2.5	14	3.5	24.0	32.0	45608	45609	45600	45611	45612	45610
4	12	4.4	38.0	50.0	45708	45709	45700	45711	45712	45710

SIFF



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

Cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	 yellow	 orange	 green	 pink	 beige	 transparent
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
6	10	5.2	58.0	73.0	45808	45809	45800	45811	45812	45810
10	8	6.8	96.0	125.0	45908	45909	45900	45911	45912	45910