SIFF

Silicone single core, extra 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 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. mm²	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. mm²	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**

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Cross-sec. mm²	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.
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**

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