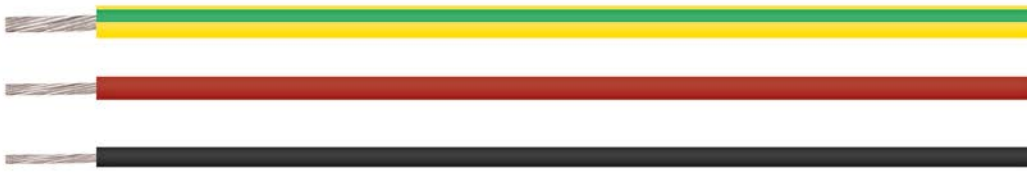
SiF

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 U_0/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. mm²	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. mm²	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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