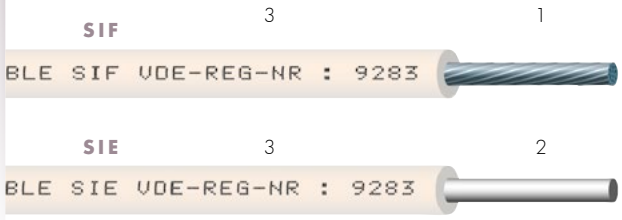
SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

SILICABLE®
SIF/SIR/SIE
N2GFAF/N2GFA
VDE approval
-60 °C to +180 °C



1 • Flexible bare copper or tin-plated core - class 5 as per IEC 60228 / DIN VDE 0295.
2 • Solid bare copper or tin-plated core - class 1 as per IEC 60228 / DIN VDE 0295.
3 • Insulation: Silicone rubber - type EI2 - DIN EN 50363-1.

Approvals - standards

• SIF, SIR and SIE: VDE approved as per Licence no. 121112.
• N2GFAF AND N2GFA: VDE approved as per Licence no. 101969.
• Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

• Cabling for household electrical heating appliances.
• Rotating machines (class H).
• Lighting.
• Industrial cabling in hot atmospheres.

Options

• Nickel-plated copper core: contact us.
• Insulation: Very high temperature silicone rubber (+230 °C in continuous operation) - ref. SIF-THT.
• Insulation: Silicone rubber with high mechanical properties - ref. SIF-HRD.
• Other nominal stranding: contact us.

Characteristics

General

• Continuous operating temperatures: -60 °C to +180 °C.
• Good resistance to thermal shock and UV.

Electrical

• Rated voltage: 300/300 V.
• Test voltage: 2000 V.

Standard products

• All colours including two-coloured.

SIF

Flexible core • class 5 as per IEC 60228 — **INSULATED WIRE**

Nominal cross-section (mm²)	Nominal stranding Class 5	Max. linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25 *	14 x 0.15	82.2	0.6	1.9	5.9
0.5	16 x 0.20	40.1	0.6	2.1	8.6
0.75 (1)	24 x 0.20	26.7	0.6	2.4	12.0
1	32 x 0.20	20.0	0.6	2.5	14.3
1.5	30 x 0.25	13.7	0.7	2.8	19.4
2.5	50 x 0.25	8.21	0.8	3.4	30.6

SIR

Stranded core • class 2 as per IEC 60228

	Class 2	Alternative				
0.25	7 x 0.22	-	81.2	0.6	1.9	5.9
0.5	7 x 0.30	-	36.7	0.6	2.1	8.6
0.75	7 x 0.37	11 x 0.30	24.8	0.6	2.4	12.0
1	7 x 0.43	14 x 0.30	18.2	0.6	2.5	14.4
1.5	7 x 0.52	21 x 0.30	12.2	0.7	3.0	21.0
2.5	7 x 0.67	35 x 0.30	7.56	0.8	3.6	32.5

SIE

Solid core • class 1 as per IEC 60228

0.25 *	1 x 0.52	76.0	0.6	1.8	5.3
0.5	1 x 0.80	36.7	0.6	2.0	8.4
0.75 (2)	1 x 0.98	24.8	0.6	2.3	11.8
1	1 x 1.13	18.2	0.6	2.5	14.8
1.5	1 x 1.38	12.2	0.7	2.8	20.3
2.5	1 x 1.77	7.56	0.8	3.4	31.9

* Nominal cross-section not included in IEC 60228.

(1) Standardised VDE ref.: N2GFAF
(2) Standardised VDE ref.: N2GFA

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LES CABLES DE L'EXTREME

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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.
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