

HIGH TEMPERATURE WIRES AND CABLES  
FOR THE GENERAL MARKET  
SECTION I: CROSS LINKED ELASTOMERS

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



**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.

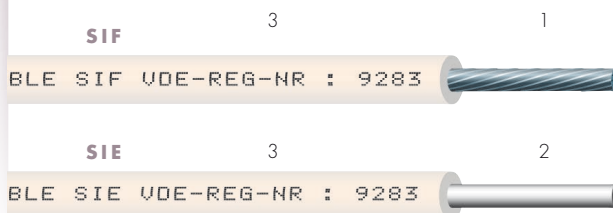
**Applications**

- 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.

SILICONE INSULATED AND/OR SHEATHED  
WIRES AND CABLES



- 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.

**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**

| Nominal cross-section (mm <sup>2</sup> ) | Nominal stranding |             | Max. linear resistance at 20 °C (Ω/km) (tin-plated copper core) | INSULATED WIRE                       |                       |                                   |
|--|-------------------|-------------|---|--------------------------------------|-----------------------|-----------------------------------|
|  | Class 5           | Alternative |   | 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         | 11 x 0.30   | 26.7  | 0.6                                  | 2.4                   | 12.0                              |
| 1  | 32 x 0.20         | 14 x 0.30   | 20.0  | 0.6                                  | 2.5                   | 14.3                              |
| 1.5                                      | 30 x 0.25         | 21 x 0.30   | 13.7  | 0.7                                  | 2.8                   | 19.4                              |
| 2.5                                      | 50 x 0.25         | 35 x 0.30   | 8.21  | 0.8                                  | 3.4                   | 30.6                              |

**SIR**

**Stranded core • class 2 as per IEC 60228**

|      |          |      |     |     |      |
|------|----------|------|-----|-----|------|
| 0.5  | 7 x 0.30 | 36.7 | 0.6 | 2.1 | 8.6  |
| 0.75 | 7 x 0.37 | 24.8 | 0.6 | 2.4 | 12.0 |
| 1    | 7 x 0.43 | 18.2 | 0.6 | 2.5 | 14.4 |
| 1.5  | 7 x 0.52 | 12.2 | 0.7 | 3.0 | 21.0 |
| 2.5  | 7 x 0.67 | 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

For this product, please contact:

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