

# Product Data Sheet

## 0,75mm<sup>2</sup> FIBERGLASS SILICOE CABLE (24 x 0,2) - TINNED COPPER



### Cable Make-up:

- 1.
2. Annealed Copper Conductor (Class 5 DIN VDE 0295 and IEC 60228)
3. Special Silicone Rubber Insulation according to VDE 0250 Teil 816 and Harmonized Document HD 22.3 S3
4. Special Silicone Rubber Inner Sheath
5. PU impregnated fiberglass braiding

### Technical Data:

This cable is in compliance with VDE according to DIN VDE 0250 Teil 816 and Harmonized Document HD 22.15 S1.

<b>EC directive</b>	: This cable confirm to ECD 73/23/EEC (low voltage directive).
<b>Working Temperature</b>	: -60° C to +200° C
<b>Peak Temperature</b>	: +250° C for short time
<b>Nominal Voltage U<sub>0</sub>/U</b>	: 300–500 V
<b>Conductor</b>	: fine stranded annealed copper wire (class 5)
<b>Insulation Resistance</b>	: min. > 200 G Ω x cm.
<b>Radiation Resistance</b>	: up to 20 x 10 <sup>6</sup> cJ / kg. (Up to 20 Mrad)
<b>Core Insulation for sheathing</b>	: Silicone rubber EI2 for insulation, special silicone compound
<b>Cable Marking</b>	: according to DIN VDE 0293 (and/or customer requirments)
<b>Tests</b>	: In reference to VDE 0250 Teil 816 and HD 22.15 S1
<b>Test Voltage</b>	: 2000 V; a.c. 50 Hz.
<b>Lay Length</b>	: 12 – 18 D, nominal 14 D (D=stranding diameter) for < 7 cores
<b>Lay Direction</b>	: Left Stranding (according to customer specification)



**Applications**

These cables are used at machinery, appliance, ovens and tools at indoor and outdoor application areas. Applications at hand drill, portable lighting devices, as extension cables, at further devices are possible. These cables can be used under varying conditions like high temperature, excessive movements, and flame resistivity even under high mechanical and chemical effects and at open, closed, dry or humid spaces, where penetration of oil, petroleum, acids, chemical agents, and also ozone and flame may have to be considered. These properties depend on the subgrades of the cables.

**Approvals / Certification:**

This grade is produced in reference to VDE according to VDE 0250 Teil 816 and Harmonized Document HD 22.15 S1

**Properties:**

- High Temperature Resistant, excellent resistance to thermal shocks within working temperature range
- Good aging in hot environments
- Hardly change of dielectric strength and the insulation resistance also at high temperatures
- High ignition or flash point
- In case of fire forms an insulation layer of SiO<sub>2</sub>
- Resistant to high molecular ions, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lyes and salt dissolution, oxidation substances, tropical influences and weather, lake water
- Good resistance to atmospheric conditions: UV, Ozone, Oxygen
- Halogen free
- Flame Retardant
- Polyester tape according to the cross sections possible
- Glass fiber braiding, mechanical outer shielding in galvanized or stainless steel braiding possible
- All colors including multi-cored, green/yellow possible

For details and other options and properties please consult us

**Further Structure Regulations:**

- Flame Retardance** : continuance of insulation effects under fire conditions according to IEC 60332-1, IEC 60331 and VDE 0472 part 814
- Fire Behavior** : no flame propagation, meets requirements of test C1 of standard NF C 32-070; test method B according to VDE 0472 part 804 and IEC 60332-1
- Low Smoke** : Low emission of fumes according to standard IEC 1034 (NF C 32-073)
- Halogen Free** : according to DIN VDE 472 part 815 – IEC 60754-1 – CEI 20.37/1, no corrosiveness of emitted gases according to standard IEC 60754-2 and DIN VDE 0472 part 813,



**Packaging:**

Packaging in reels depending on quantities and customer demand.

For 0,75 mm<sup>2</sup> SIAF GL

**Measurements of drums:**

**Quantity:** 25mt / 1 reel

**Cross-Sections:**

<b>Nominal Cross &amp; Section</b>	<b>Conductor Number &amp; Diameter (Approx.) (mm)</b>	<b>Linear Resistance at 20 °c ( Ω / km )</b>	<b>Outer Diameter Nom. (Approx.) (±0,15) (mm)</b>	<b>Approx. Cable Weight ( kg / km )</b>
0,75	24 x 0,2	26,00	2,50	14

Please consult us for details and further demands in various cross-sections.

**Colors Available:**

This cable grade is available in many color combinations. Please consult us for your special requirement.