High-temperature fluoropolymer, silicone & HV wires

N2GFAF 300/300 V

180 °C Silicone Glass-Braid Wire

DIN VDE 0250 180 °C silicone-insulated bare copper wire with glass braid



DIN VDE 0250-502 | 300/300 V · +180 °C | LSZH Halogen-Free

Application

N2GFAF 300/300 V pairs IEC 60228 Class 5 bare copper conductors with 180 °C silicone rubber insulation (2G) and a varnished white fibreglass outer braid (FAF) for industrial ovens, luminaires, and heating elements.

Typical uses: Industrial ovens, kilns & thermal processing, Aerospace avionics, defence & instrumentation, Steelworks, glassworks & foundry equipment, Switchgear cabinets, motors & heating appliances

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible bare annealed copper · IEC 60228 Class 5
2	**Primary insulation**	Halogen-free 180 °C silicone rubber compound (2G) · DIN VDE 0250-502
3	**Fibreglass outer braid**	White varnished fibreglass outer braid over silicone rubber (silicone/glass) · 180 °C Continuous (200 °C Peak)

Technical data

Typical values

Rated voltage	300/300 V	**Test voltage**	2 kV AC
Conductor	Bare Cu · Cl.5	**Insulation**	Halogen-free 180 °C silicone rubber
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-60 °C to +180 °C
Temp. range (flexing)	-25 °C to +180 °C	**Peak / short-circuit**	+220 °C (short-term)
Min. bending radius	6 × OD (fixed)	**Flame / fire rating**	180 °C Continuous (200 °C Peak)
Thermal / chemical	Abrasion-Proof Glass Braid	**Mechanical / special**	IEC 60332-1-2 Flame
Outer finish	White varnished fibreglass outer braid		

Sizes

9 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Conductor mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 6×D mm
☐ 1×0.5 mm²	2.6	39.00	5	14	16
☐ 1×0.75 mm²	2.9	26.00	7	17	17
☐ 1×1 mm²	3.0	19.50	10	22	18
☐ 1×1.5 mm²	3.3	13.30	14	29	20
☐ 1×2.5 mm²	4.2	7.98	24	49	25
☐ 1×4 mm²	4.8	4.95	38	73	29
☐ 1×6 mm²	5.4	3.30	58	106	32
☐ 1×10 mm²	6.7	1.91	96	172	40
☐ 1×16 mm²	7.8	1.21	154	266	47

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 5.
- Minimum bending radius calculated at 6 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- DIN VDE 0250-502
- IEC 60228 Class 5
- IEC 60754-1 Halogen-Free
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/n2gfaf-300-300v-180c-silicone-glass-braid-wire

Typical values for this cable type, based on DIN VDE 0250-502 · IEC 60228 Class 5 · IEC 60754-1 Halogen-Free. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.