High-temperature mica, glass-braid & silicone cables

GN500-01 350°C Mica Wire

GN500-01 350 °C 500 V Mica-Fibreglass High-Temp Wire

350 °C metric bare copper mica-tape wrapped fibreglass-braided oven wire

GB/T 5023 (ref.) | 500 V · +350 °C | High-Temp Mica



Application

GN500-01 350 °C Mica Wire pairs flexible Class 5 bare copper with overlapping calcined mica tape and a beige varnished fibreglass outer braid rated 500 V for metallurgy, ceramic kilns, and commercial heater elements.

Typical uses: Steelworks, rolling mills & aluminum smelters, Industrial ovens, ceramic kilns & glassworks, Commercial heating elements & cartridge heaters, Power plants, boiler rooms & hot switchgear

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible bare annealed copper · IEC 60228 Class 5
2	**Mica / PTFE tape dielectric**	Overlapping high-temperature mica tape primary insulation · GB/T 5023 (ref.)
3	**Fibreglass outer braid**	Beige silicone-varnished fibreglass outer braid (mica/glass) · 350 °C Continuous Service

Technical data

Typical values

Rated voltage	500 V	**Test voltage**	2 kV AC
Conductor	Bare Cu · Cl.5	**Core / dielectric**	Overlapping high-temperature mica tape
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-60 °C to +350 °C
Temp. range (flexing)	-30 °C to +300 °C	**Peak / short-circuit**	+250 °C (short-term)
Min. bending radius	8 × OD	**Primary performance**	350 °C Continuous Service
Environment / duty	Halogen-Free Mica/Glass	**Mechanical / special**	Abrasion-Proof Outer Braid
Outer finish	Beige silicone-varnished fibreglass outer		

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	Copper index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐ 1×0.75 mm²	2.7	26.000	7	19	22
☐ 1×1 mm²	2.9	19.500	10	23	23
☐ 1×1.5 mm²	3.2	13.300	14	31	26
☐ 1×2.5 mm²	3.7	7.980	24	48	30
☐ 1×4 mm²	4.3	4.950	38	73	34
☐ 1×6 mm²	4.9	3.300	58	108	39
☐ 1×10 mm²	5.9	1.910	96	173	47
☐ 1×16 mm²	7.0	1.210	154	270	56
☐ 1×25 mm²	8.4	0.780	240	415	67

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 5.
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom terminations available on request.

Standards and approvals

- GB/T 5023 (ref.)
- IEC 60228 Class 5
- IEC 60331 (ref.)
- 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/gn500-01-350c-500v-mica-fiberglass-high-temp-wire

Typical values for this cable type, based on GB/T 5023 (ref.) · IEC 60228 Class 5 · IEC 60331 (ref.). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.