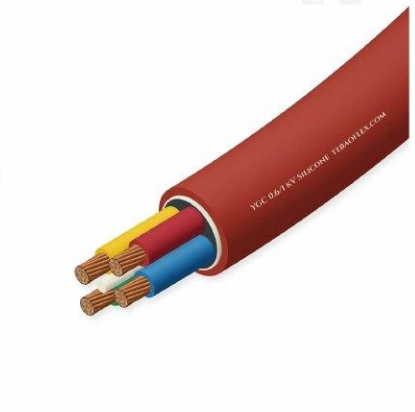
High-temperature mica, glass-braid & silicone cables

# YGC 0.6/1 kV Silicone Cable

## YGC 0.6/1 kV 180 °C Silicone Rubber High-Temp Power Cable

Multi-core 0.6/1 kV 180 °C red-oxide silicone rubber industrial power cable




JB/T 8734 (ref.) | 0.6/1 kV · +180 °C | 180 °C Silicone

## Application

YGC 0.6/1 kV Silicone pairs IEC 60228 Class 5 bare copper power cores with 180 °C halogen-free silicone rubber insulation and a red-oxide silicone outer sheath for steelworks, power plants, and high-ambient machinery.

**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 | **Cooling core / primary dielectric** | Colour-coded 180 °C halogen-free silicone rubber core insulation · JB/T 8734 (ref.) |
| 3 | **Outer sheath / hose** | Red-oxide ozone- & heat-resistant halogen-free silicone outer sheath · 180 °C Continuous Silicone |

## Technical data

Typical values

| | | | |
|---|---|---|---|
| Rated voltage | 0.6/1 kV | Test voltage | 3.5 kV AC |
| Conductor | Bare Cu · Cl.5 | Core / dielectric | Colour-coded 180 °C halogen-free silicone |
| 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 | +250 °C (short-term) |
| Min. bending radius | 10 × OD | Primary performance | 180 °C Continuous Silicone |
| Environment / duty | Halogen-Free Self-Extinguishing | Mechanical / special | Cold-Flex -60 °C |
| Outer finish | Red-oxide ozone- & heat-resistant | | |

## Sizes

9 standard constructions

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

| Cores × mm² | Outer Ø ≈ mm | Max. R20 Ω/km | Copper index kg/km | Weight ≈ kg/km | Min. bend R 10×D mm |
|---|---|---|---|---|---|
| ☐ 3G2.5 mm² | 10.6 | 7.980 | 72 | 203 | 106 |
| ☐ 4G2.5 mm² | 11.6 | 7.980 | 96 | 258 | 116 |
| ☐ 4G4 mm² | 13.4 | 4.950 | 154 | 381 | 134 |
| ☐ 4G6 mm² | 15.2 | 3.300 | 230 | 537 | 152 |
| ☐ 4G10 mm² | 18.6 | 1.910 | 384 | 861 | 186 |
| ☐ 4G16 mm² | 21.8 | 1.210 | 614 | 1,309 | 218 |
| ☐ 4G25 mm² | 26.2 | 0.780 | 960 | 1,996 | 262 |
| ☐ 4G35 mm² | 29.8 | 0.554 | 1,344 | 2,730 | 298 |
| ☐ 4G50 mm² | 34.6 | 0.386 | 1,920 | 3,838 | 346 |

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 5.
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom terminations available on request.

## Standards and approvals

- JB/T 8734 (ref.)
- IEC 60502-1 (ref.)
- IEC 60228 Class 5
- 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/ygc-0-6-1kv-180c-silicone-rubber-power-cable**

Typical values for this cable type, based on JB/T 8734 (ref.) · IEC 60502-1 (ref.) · IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.