High-temperature mica, glass-braid & silicone cables

# KGG 450/750 V Control Cable

## KGG 450/750 V 180 °C Silicone Rubber Control Cable

Multi-core 450/750 V 180 °C black silicone rubber industrial control cable

GB/T 9330 (ref.) | 450/750 V · +180 °C | 180 °C Silicone




## Application

KGG 450/750 V Control combines bare copper control conductors, 180 °C halogen-free silicone core insulation, and a black weather- & oil-resistant silicone outer sheath for stationary high-temperature plant instrumentation.

**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 / numbered 180 °C halogen-free silicone rubber insulation · GB/T 9330 (ref.) |
| 3 | Outer sheath / hose | Black heat-, ozone- & weather-resistant halogen-free silicone outer sheath · 180 °C Control Rating |

## Technical data

Typical values

| | | | |
|---|---|---|---|
| **Rated voltage** | 450/750 V | **Test voltage** | 2.5 kV AC |
| **Conductor** | Bare Cu · Cl.5 | **Core / dielectric** | Colour-coded / numbered 180 °C |
| **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 Control Rating |
| **Environment / duty** | Halogen-Free Silicone | **Mechanical / special** | Acid, Alkali & Cold Proof |
| **Outer finish** | Black heat-, ozone- & weather-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 |
|---|---|---|---|---|---|
| ☐ 4G0.75 mm² | 7.8 | 26.000 | 29 | 96 | 78 |
| ☐ 7G0.75 mm² | 9.4 | 26.000 | 50 | 150 | 94 |
| ☐ 4G1.0 mm² | 8.4 | 19.500 | 38 | 117 | 84 |
| ☐ 7G1.0 mm² | 10.2 | 19.500 | 67 | 189 | 102 |
| ☐ 12G1.0 mm² | 13.0 | 19.500 | 115 | 315 | 130 |
| ☐ 4G1.5 mm² | 9.4 | 13.300 | 58 | 162 | 94 |
| ☐ 7G1.5 mm² | 11.4 | 13.300 | 101 | 261 | 114 |
| ☐ 12G1.5 mm² | 14.6 | 13.300 | 173 | 438 | 146 |
| ☐ 4G2.5 mm² | 11.2 | 7.980 | 96 | 250 | 112 |

- 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

- GB/T 9330 (ref.)
- 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/kgg-450-750v-180c-silicone-rubber-control-cable**

Typical values for this cable type, based on GB/T 9330 (ref.) · 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.