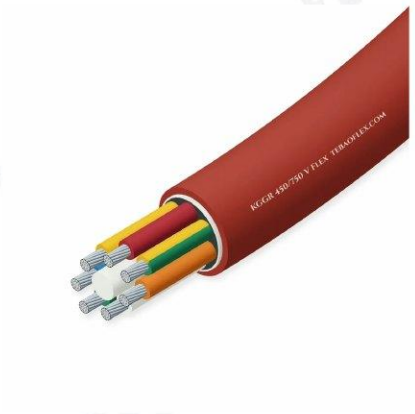
High-temperature mica, glass-braid & silicone cables

KGGR 450/750 V Flex Cable

KGGR 450/750 V 180 °C Flexible Silicone Control Cable

Extra-flexible Class 6 red-oxide 180 °C silicone rubber control cable

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



Application

KGGR 450/750 V Flex pairs extra-flexible Class 6 bare copper cores with 180 °C halogen-free silicone insulation and a red-oxide silicone outer sheath for dynamic connections on ovens, glass machines, and steel-mill actuators.

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 6 extra-flexible bare annealed copper · IEC 60228 Class 6
2	**Cooling core / primary dielectric**	Extra-flexible 180 °C halogen-free silicone rubber core insulation · GB/T 9330 (ref.)
3	**Outer sheath / hose**	Red-oxide flexible halogen-free 180 °C silicone rubber outer sheath · Class 6 Extra-Flexible

Technical data

Typical values

Rated voltage	450/750 V	**Test voltage**	2.5 kV AC
Conductor	Bare Cu · Cl.6	**Core / dielectric**	Extra-flexible 180 °C halogen-free
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-60 °C to +180 °C
Temp. range (flexing)	-35 °C to +180 °C	**Peak / short-circuit**	+250 °C (short-term)
Min. bending radius	7.5 × OD	**Primary performance**	Class 6 Extra-Flexible
Environment / duty	180 °C Continuous Silicone	**Mechanical / special**	Cold-Flex -60 °C
Outer finish	Red-oxide flexible halogen-free 180 °C		

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 7.5×D mm
☐ 4G0.75 mm²	7.8	26.000	29	96	58
☐ 7G0.75 mm²	9.4	26.000	50	150	70
☐ 4G1.0 mm²	8.4	19.500	38	117	63
☐ 7G1.0 mm²	10.2	19.500	67	189	76
☐ 12G1.0 mm²	13.0	19.500	115	315	98
☐ 4G1.5 mm²	9.4	13.300	58	162	70
☐ 7G1.5 mm²	11.4	13.300	101	261	86
☐ 12G1.5 mm²	14.6	13.300	173	438	110
☐ 4G2.5 mm²	11.2	7.980	96	250	84

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 6.
- Minimum bending radius calculated at 7.5 × nominal outer diameter (OD). Custom terminations available on request.

Standards and approvals

- GB/T 9330 (ref.)
- IEC 60228 Class 6
- 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/kggr-450-750v-180c-flexible-silicone-control-cable

Typical values for this cable type, based on GB/T 9330 (ref.) · IEC 60228 Class 6 · 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.