High-temperature mica, glass-braid & silicone cables

YGCR 0.6/1 kV Flexible Cable

YGCR 0.6/1 kV 180 °C Extra-Flexible Silicone Power Cable

Extra-flexible Class 6 silicone rubber 0.6/1 kV mobile high-temp cable

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



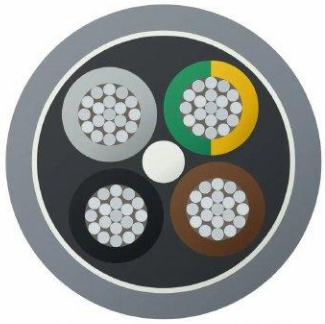
Application

YGCR 0.6/1 kV Flexible upgrades YGC with ultra-flexible Class 6 bare copper stranding and a tough grey 180 °C halogen-free silicone outer sheath for moving furnace cranes, foundry trolleys, and vibrating hot equipment.

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 · JB/T 8734 (ref.)
3	Outer sheath / hose	Grey abrasion- & heat-resistant halogen-free silicone outer sheath · Class 6 Extra-Flexible

Technical data

Typical values

Rated voltage	0.6/1 kV	**Test voltage**	3.5 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**	Thermal-Shock & Ozone Proof
Outer finish	Grey abrasion- & 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 7.5×D mm
☐ 3G2.5 mm²	10.6	7.980	72	203	80
☐ 4G2.5 mm²	11.6	7.980	96	258	87
☐ 4G4 mm²	13.4	4.950	154	381	100
☐ 4G6 mm²	15.2	3.300	230	537	114
☐ 4G10 mm²	18.6	1.910	384	861	140
☐ 4G16 mm²	21.8	1.210	614	1,309	164
☐ 4G25 mm²	26.2	0.780	960	1,996	196
☐ 4G35 mm²	29.8	0.554	1,344	2,730	224
☐ 4G50 mm²	34.6	0.386	1,920	3,838	260

- 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

- JB/T 8734 (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/ygcr-0-6-1kv-180c-flexible-silicone-power-cable

Typical values for this cable type, based on JB/T 8734 (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.