High-current water-cooled, furnace & shunt cables

AC Fire-Protected HC Cable

AC Fire-Protected 500 °C High-Current Steel-Mill Cable

Red-oxide silicone-coated fibreglass fire-sleeve high-current bare copper lead

IEC 60228 Class 6 | 1000 V · +500 °C | Air-Cooled HC



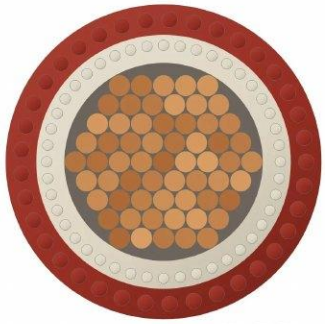
Application

AC Fire-Protected HC encloses extra-flexible bare copper power ropes inside a thermal fibreglass braid coated with heavy red-oxide iron-oxide silicone rubber (pyro-barrier) to deflect molten splash and 500 °C radiant heat.

Typical uses: Power transformers, switchgear & busduct joints, Resistance welding guns & heavy fabrication shops, BESS battery racks, EV test benches & rectifiers, Steel mills, foundries & high-current power bays

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**	High-temperature silicone rubber + thermal fibreglass inner barrier · IEC 60228 Class 6
3	**Outer sheath / hose**	Red-oxide iron-oxide silicone-coated fibreglass outer sheath (silicone/glass)

Technical data

Typical values

Rated voltage	1000 V	Test voltage	4 kV AC
Conductor	Bare Cu · Cl.6	Core / dielectric	High-temperature silicone rubber +
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-50 °C to +500 °C
Temp. range (flexing)	-30 °C to +260 °C	Peak / short-circuit	+600 °C (short-term)
Min. bending radius	8 × OD	Primary performance	Molten-Metal Splash Barrier
Environment / duty	500 °C Short-Term Radiant	Mechanical / special	Halogen-Free Silicone/Glass
Outer finish	Red-oxide iron-oxide silicone-coated		

Sizes

8 standard constructions

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

Cross-section mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐ 1×120 mm²	24.3	0.161	1,152	1,904	194
☐ 1×150 mm²	26.1	0.129	1,440	2,344	209
☐ 1×185 mm²	28.0	0.106	1,776	2,854	224
☐ 1×240 mm²	30.7	0.080	2,304	3,654	246
☐ 1×300 mm²	33.2	0.064	2,880	4,518	266
☐ 1×400 mm²	37.0	0.049	3,840	5,959	296
☐ 1×500 mm²	40.3	0.038	4,800	7,392	322
☐ 1×630 mm²	44.1	0.029	6,048	9,247	353

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 6.
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom terminations available on request.

Standards and approvals

- IEC 60228 Class 6
- DIN VDE 0250 (ref.)
- 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/ac-fire-protected-500c-high-current-pyrojacket-cable

Typical values for this cable type, based on IEC 60228 Class 6 · DIN VDE 0250 (ref.) · 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.