High-current water-cooled, furnace & shunt cables

WC Multi-Rope 1200-2000 Cable

WC Multi-Rope 1,200–2,000 mm² Ultra-High-Current Cable

Ultra-heavy 1,200–2,000 mm² multi-rope water-cooled furnace power cable

IEC 60228 Class 6 | 1000 V · +90 °C | Water-Cooled HC



Application

WC Multi-Rope 1200–2000 packs 12 to 18 extra-flexible bare copper ropes around a large-bore water core inside a multi-ply EPDM pressure hose for ultra-high-power (UHP) electric arc and ladle furnaces.

Typical uses: Electric arc (EAF) & submerged arc (SAF) steelworks, Medium- & high-frequency induction melting foundries, Automotive robotic spot- & seam-welding lines, Heavy DC rectifiers & metallurgical bus feeders

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**	Multi-rope concentric bare copper bundles + high-flow water cooling core · IEC 60228 Class 6
3	**Strength / pressure reinforcement**	Multi-ply high-pressure textile reinforcement braid · IEC 60228 Class 6
4	**Outer sheath / hose**	Black multi-ply synthetic-braid reinforced EPDM rubber outer hose · Up to 2,000 mm² Copper

Technical data

Typical values

Rated voltage	1000 V	**Test voltage**	4 kV AC
Conductor	Bare Cu · Cl.6	**Core / dielectric**	Multi-rope concentric bare copper bundles
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-25 °C to +90 °C
Temp. range (flexing)	-20 °C to +80 °C	**Peak / short-circuit**	+160 °C (5 s)
Min. bending radius	10 × OD	**Primary performance**	Up to 2,000 mm² Copper
Environment / duty	Ultra-High-Power UHP EAF	**Mechanical / special**	Multi-Ply Pressure Hose
Outer finish	Black multi-ply synthetic-braid		

Sizes

3 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 10×D mm
☐	1×1200 mm²	92.5	0.016	11,520	23,210	925
☐	1×1500 mm²	101.3	0.013	14,400	28,700	1,013
☐	1×2000 mm²	114.2	0.010	19,200	37,806	1,142

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 6.
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom terminations available on request.

Standards and approvals

- ✓ IEC 60228 Class 6
- ✓ DIN VDE 0250 (ref.)
- ✓ ISO 1403 Hose
- ✓ 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/wc-multi-rope-1200-2000mm2-water-cooled-cable

Typical values for this cable type, based on IEC 60228 Class 6 · DIN VDE 0250 (ref.) · ISO 1403 Hose. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.