High-current water-cooled, furnace & shunt cables

AC Ventilated Weld Cable

AC Ventilated Air-Cooled High-Current Welding Cable

Blue ventilated-jacket extra-flexible air-cooled high-current welding lead



EN 50525-2-81 (ref.) | 600 V · +85 °C | Air-Cooled HC

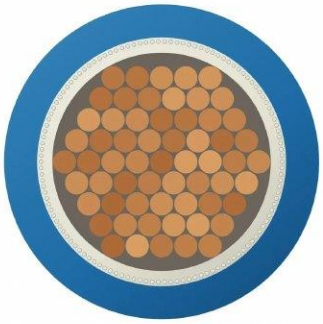
Application

AC Ventilated Weld Cable houses extra-flexible bare copper ropes inside a loose-fit ventilated blue elastomeric sheath that promotes natural convection heat dissipation during high-duty-cycle welding and testing.

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**	Ventilated separator channel around extra-flexible bare copper rope · EN 50525-2-81 (ref.)
3	**Outer sheath / hose**	Blue abrasion-, oil- & heat-resistant ventilated elastomeric rubber outer sheath

Technical data

Typical values

Rated voltage	600 V	**Test voltage**	2.5 kV AC
Conductor	Bare Cu · Cl.6	**Core / dielectric**	Ventilated separator channel around
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-25 °C to +85 °C
Temp. range (flexing)	-20 °C to +85 °C	**Peak / short-circuit**	+160 °C (5 s)
Min. bending radius	6 × OD	**Primary performance**	Convection Air Cooling
Environment / duty	High-Visibility Blue Sheath	**Mechanical / special**	Extra-Flex Bare Copper
Outer finish	Blue abrasion-, oil- & heat-resistant		

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 6×D mm
☐ 1×120 mm²	22.1	0.161	1,152	1,838	133
☐ 1×150 mm²	23.9	0.129	1,440	2,272	143
☐ 1×185 mm²	25.8	0.106	1,776	2,777	155
☐ 1×240 mm²	28.5	0.080	2,304	3,569	171
☐ 1×300 mm²	31.0	0.064	2,880	4,426	186
☐ 1×400 mm²	34.8	0.049	3,840	5,856	209
☐ 1×500 mm²	38.1	0.038	4,800	7,280	229
☐ 1×630 mm²	41.9	0.029	6,048	9,125	251

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

Standards and approvals

- EN 50525-2-81 (ref.)
- IEC 60228 Class 6
- ISO 5828 (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-ventilated-air-cooled-high-current-welding-cable

Typical values for this cable type, based on EN 50525-2-81 (ref.) · IEC 60228 Class 6 · ISO 5828 (ref.). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.