High-current water-cooled, furnace & shunt cables

AC Isolated-Rope Jumper

AC Isolated-Rope Air-Cooled High-Current Jumper Cable

Individually separated bare copper ropes inside a flexible black rubber jacket



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

Application

AC Isolated-Rope Jumper groups multiple separated bare copper rope bundles inside a rugged black EPDM rubber sheath to reduce AC skin/proximity effects and simplify multi-lug termination on heavy transformers.

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	Individually wrapped/separated Class 6 bare copper sub-ropes · IEC 60228 Class 6
3	Outer sheath / hose	Black ozone-, oil- & abrasion-resistant EPDM rubber outer sheath

Technical data

Typical values

Rated voltage	1000 V	**Test voltage**	3.5 kV AC
Conductor	Bare Cu · Cl.6	**Core / dielectric**	Individually wrapped/separated Class 6
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-30 °C to +90 °C
Temp. range (flexing)	-20 °C to +85 °C	**Peak / short-circuit**	+160 °C (5 s)
Min. bending radius	8 × OD	**Primary performance**	Reduced AC Proximity Loss
Environment / duty	Multi-Rope Flex Geometry	**Mechanical / special**	Abrasion-Proof EPDM
Outer finish	Black ozone-, oil- & abrasion-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 8×D mm
☐	1×120 mm²	22.1	0.161	1,152	1,838	177
☐	1×150 mm²	23.9	0.129	1,440	2,272	191
☐	1×185 mm²	25.8	0.106	1,776	2,777	206
☐	1×240 mm²	28.5	0.080	2,304	3,569	228
☐	1×300 mm²	31.0	0.064	2,880	4,426	248
☐	1×400 mm²	34.8	0.049	3,840	5,856	278
☐	1×500 mm²	38.1	0.038	4,800	7,280	305
☐	1×630 mm²	41.9	0.029	6,048	9,125	335

- 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 0282 (ref.)
- EN 50363-2-1
- 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-isolated-rope-air-cooled-high-current-jumper

Typical values for this cable type, based on IEC 60228 Class 6 · DIN VDE 0282 (ref.) · EN 50363-2-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.