Power & distribution cables

BR 880 0.6/1kV Sector Aluminium Screened Railway

Power Cable

BR 880 / BS EN 60228 · 0.6/1 kV · -15°C to +90°C · Min. bend 12 × OD

BR 880 / BS EN 60228 | 0.6/1 kV



Application

BR 880 0.6/1kV Sector Aluminium Screened Railway Power Cable manufactured to BR 880 / BS EN 60228, rated 0.6/1 kV and -15°C to +90°C with a 12 × OD minimum bending radius for infrastructure & construction installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	**Conductor**	4C×35 mm² Class 1 Solid Sector Al
2	**Insulation & Core Identification**	BR 880 XLPE core insulation (35 mm² Class 1 Solid Aluminium)
3	**Screen / Bedding / Armour Layer**	PET polyester separator tape + Overall Aluminium/Polyester (Al/PET) metallic screen tape
4	**Outer Protective Sheath**	Black flame-retardant PVC outer sheath (OD 25.4 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4C×35 mm² Class 1 Solid Sector Al · BR 880 XLPE core insulation (35 mm² Class 1 Solid Aluminium)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-15°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	BR 880 / BS EN 60228
Minimum bending radius	12 × OD	Screening / armour architecture	PET polyester separator tape + Overall Aluminium/Polyester (Al/PET) metallic screen tape
Outer sheath material & colour	Black flame-retardant PVC outer sheath (OD 25.4 mm)	Standards	BR 880 / BS EN 60228

Sizes

3 standard constructions

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

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Conductor weight kg/km	Cable weight kg/km	Key electrical / optical rating
BR 880 0.6/1kV Sector Aluminium Screened Railway 3 sizes										
☐ BR 880 0.6/1kV Sector Aluminium Screened Railway (4C×35 mm²)	4C×35 mm²	Class 1/2 Aluminium	BR 880 XLPE core insulation	Industrial PVC	25.4	305	0.81	404.7	1,065	101 A
☐ BR 880 0.6/1kV Sector Aluminium Screened Railway (4C×50 mm²)	4C×50 mm²	Class 1/2 Aluminium	BR 880 XLPE core insulation	Industrial PVC	30.0	360	0.56	563.2	1,482	122 A
☐ BR 880 0.6/1kV Sector Aluminium Screened Railway (4C×70 mm²)	4C×70 mm²	Class 1/2 Aluminium	BR 880 XLPE core insulation	Industrial PVC	35.1	421	0.40	770.3	2,027	155 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ BR 880 / BS EN 60228 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, 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/br-880-0-6-1kv-sector-aluminium-screened-railway-power-cable

Typical values for this cable type, based on Reference specification per BR 880 / BS EN 60228 (BR 880 0.6/1kV Sector Aluminium Screened Railway). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.