Power & distribution cables

NR/PS/ELP/00008 19/33kV–25/44kV

Graphite-Coated Trackside MV Cable

NR/PS/ELP/00008 / BS 7870 · 19/33–25/44 kV · -25°C to +90°C · Min. bend 15 × OD

NR/PS/ELP/00008 / BS 7870 | 19/33–25/44 kV



Application

NR/PS/ELP/00008 19/33kV–25/44kV Graphite-Coated Trackside MV Cable manufactured to NR/PS/ELP/00008 / BS 7870, rated 19/33 (36) kV & 25/44 (52) kV and -25°C to +90°C with a 15 × OD minimum bending radius for renewable energy 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**	1×185 mm² Class 1 Solid Al (or 300 mm² Cu)
2	**Insulation & Core Identification**	NR/PS/ELP/00008 19/33kV XLPE dielectric (185 mm² Class 1 Solid Aluminium)
3	**Screen / Bedding / Armour Layer**	Semi-conductive longitudinal water-blocking swellable tape + Helical copper wire screen + equalising copper tape + Bonded Aluminium/PE moisture barrier laminate
4	**Outer Protective Sheath**	Black MDPE outer sheath with extruded outer conductive graphite coating (OD 44.5 mm)

Technical data

Typical values

Nominal / reference voltage	19/33 (36) kV & 25/44 (52) kV	**Conductor & core insulation**	1×185 mm² Class 1 Solid Al (or 300 mm² Cu) · NR/PS/ELP/00008 19/33kV XLPE dielectric (185 mm² Class 1 Solid Aluminium)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	**Operating temperature range**	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	**Flame & fire performance**	NR/PS/ELP/00008 / BS 7870
Minimum bending radius	15 × OD	**Screening / armour architecture**	Semi-conductive longitudinal water-blocking swellable tape + Helical copper wire screen + equalising copper tape + Bonded Aluminium/PE moisture barrier laminate
Outer sheath material & colour	Black MDPE outer sheath with extruded outer conductive graphite coating (OD 44.5 mm)	**Standards**	NR/PS/ELP/00008 / BS 7870

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
NR/PS/ELP/00008 19/33kV–25/44kV 3 sizes										
☐ NR/PS/ELP/00008 19/33kV–25/44kV (1×185 mm²)	1×185 mm²	Class 1/2 Aluminium	NR/PS/ELP/00008 19/33kV XLPE dielectric	Outdoor PE	44.5	668	0.15	1,241.5	3,267	286 A
☐ NR/PS/ELP/00008 19/33kV–25/44kV (1×240 mm²)	1×240 mm²	Class 1/2 Aluminium	NR/PS/ELP/00008 19/33kV XLPE dielectric	Outdoor PE	52.5	788	0.12	1,729.0	4,550	336 A
☐ NR/PS/ELP/00008 19/33kV–25/44kV (1×300 mm²)	1×300 mm²	Class 1/2 Aluminium	NR/PS/ELP/00008 19/33kV XLPE dielectric	Outdoor PE	61.4	921	0.09	2,364.4	6,222	385 A

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

Standards and approvals

- ✓ NR/PS/ELP/00008 / BS 7870 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/nr-ps-elp-00008-19-33kv-25-44kv-graphite-coated-trackside-mv-cable

Typical values for this cable type, based on Reference specification per NR/PS/ELP/00008 / BS 7870 (NR/PS/ELP/00008 19/33kV–25/44kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.