Power & distribution cables

BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV

(ENW/NGED/UKPN)



BS 7870-4.10 / G81 · 6.35/11 (12) kV – 19/33 (36) kV · -25°C to +90°C · Min. bend 15 × OD

BS 7870-4.10 / G81 | 6.35/11–19/33 kV

Application

BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV (ENW/NGED/UKPN) manufactured to BS 7870-4.10 / G81, rated 6.35/11 (12) kV – 19/33 (36) 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	3×(1×95 mm² Solid Al + Semi-Con + XLPE + Semi-Con + 35 mm² Cu Wire Screen + Red MDPE Sheath) Triplex Laid-Up Formation (OD 62.5 mm)
2	Insulation & Core Identification	BS 7870-4.10 triple-extruded XLPE insulation (95 mm² Class 1 Solid Al)
3	Metallic Phase Screen	3 × 35 mm² Copper phase screens over extruded semi-con
4	Triplex Laid-Up Phase Sheaths	Triplex laid-up Red MDPE Type DMP2 phase sheaths (3×1×95 mm², OD 62.5 mm)

Technical data

Typical values

Nominal / reference voltage	6.35/11 (12) kV – 19/33 (36) kV	Conductor & core insulation	3×(1×95 mm² Solid Al + Semi-Con + XLPE + Semi-Con + 35 mm² Cu Wire Screen + Red MDPE Sheath) Triplex Laid-Up Formation (OD 62.5 mm) · BS 7870-4.10 triple-extruded XLPE insulation (95 mm² Class 1 Solid Al)
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	BS 7870-4.10 / G81
Minimum bending radius	15 × OD	Screening / armour architecture	3 × 35 mm² Copper phase screens over extruded semi-con
Outer sheath material & colour	Triplex laid-up Red MDPE Type DMP2 phase sheaths (3×1×95 mm², OD 62.5 mm)	Standards	BS 7870-4.10 / G81

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
BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV 3 sizes										
☐ BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV (1×95 mm²)	1×95 mm²	Class 1/2 Aluminium	BS 7870-4.10 triple-extruded XLPE insulation	Outdoor PE	62.5	938	0.30	2,449.1	6,445	188 A
☐ BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV (1×120 mm²)	1×120 mm²	Class 1/2 Aluminium	BS 7870-4.10 triple-extruded XLPE insulation	Outdoor PE	73.8	1,107	0.23	3,410.1	8,974	218 A
☐ BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV (1×150 mm²)	1×150 mm²	Class 1/2 Aluminium	BS 7870-4.10 triple-extruded XLPE insulation	Outdoor PE	86.2	1,293	0.19	4,664.1	12,274	250 A

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

Standards and approvals

- ✓ BS 7870-4.10 / G81 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/bs-7870-4-10-dno-triplex-mv-6-35-11kv-19-33kv-enw-nged-ukpn

Typical values for this cable type, based on Reference specification per BS 7870-4.10 / G81 (BS 7870-4.10 DNO Triplex MV 6.35/11kV–19/33kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.