Power & distribution cables

XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV

DMA-C33-250 Copper MV



IEC 60502-2 / DMA-C33-250 · 3.6/6 kV – 18/30 (36) kV · -25°C to +90°C · Min. bend 15 × OD

IEC 60502-2 / DMA-C33-250 | 3.6/6–18/30 kV

Application

XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV DMA-C33-250 Copper MV manufactured to IEC 60502-2 / DMA-C33-250, rated 3.6/6 kV – 18/30 (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**	1×150/16 mm² Class 2 Stranded Cu
2	**Insulation & Core Identification**	Portuguese XHIO1AE XLPE dielectric (150 mm² Class 2 Stranded Copper)
3	**Screen / Bedding / Armour Layer**	Helical copper wire screen + counter-helix copper tape (HIO) + Extruded PE inner bedding sheath + Double helically applied aluminium tape armour (1A)
4	**Outer Protective Sheath**	Black Polyethylene (PE Type ST7) outer sheath (OD 34.0 mm)

Technical data

Typical values

Nominal / reference voltage	3.6/6 kV – 18/30 (36) kV	Conductor & core insulation	1×150/16 mm² Class 2 Stranded Cu · Portuguese XHIO1AE XLPE dielectric (150 mm² Class 2 Stranded Copper)
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	IEC 60502-2 / DMA-C33-250
Minimum bending radius	15 × OD	Screening / armour architecture	Helical copper wire screen + counter-helix copper tape (HIO) + Extruded PE inner bedding sheath + Double helically applied aluminium tape armour (1A)
Outer sheath material & colour	Black Polyethylene (PE Type ST7) outer sheath (OD 34.0 mm)	Standards	IEC 60502-2 / DMA-C33-250

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	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV 3 sizes										
☐ XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV (1×150/16 mm²)	1×150/16 mm²	Class 2 Stranded Plain Copper	Portuguese XHIO1AE XLPE dielectric	Outdoor PE	34.0	510	0.12	1,412.8	2,717	324 A
☐ XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV (1×185/16 mm²)	1×185/16 mm²	Class 2 Stranded Plain Copper	Portuguese XHIO1AE XLPE dielectric	Outdoor PE	40.1	602	0.10	1,967.2	3,783	371 A
☐ XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV (1×240/16 mm²)	1×240/16 mm²	Class 2 Stranded Plain Copper	Portuguese XHIO1AE XLPE dielectric	Outdoor PE	46.9	704	0.08	2,690.0	5,173	436 A

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

Standards and approvals

- ✓ IEC 60502-2 / DMA-C33-250 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/xhio1ae-xhioae-xhioav-3-6-6kv-18-30kv-dma-c33-250-copper-mv

Typical values for this cable type, based on Reference specification per IEC 60502-2 / DMA-C33-250 (XHIO1AE / XHIOAE / XHIOAV 3.6/6kV–18/30kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.