Power & distribution cables

XHI1AE / XHIAE / XHIAV 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

XHI1AE / XHIAE / XHIAV 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**	1×95 mm² Class 2 Stranded Cu
2	**Insulation & Core Identification**	Portuguese XHI1AE XLPE dielectric (95 mm² Class 2 Stranded Copper)
3	**Screen / Bedding / Armour Layer**	Helical copper tape metallic screen (HI) + Extruded PE inner separation sheath + Double helically applied aluminium tape armour (1A)
4	**Outer Protective Sheath**	Black Polyethylene (PE Type ST7) outer sheath (OD 31.0 mm)

Technical data

Typical values

Nominal / reference voltage	3.6/6 kV – 18/30 (36) kV	Conductor & core insulation	1×95 mm² Class 2 Stranded Cu · Portuguese XHI1AE XLPE dielectric (95 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 tape metallic screen (HI) + Extruded PE inner separation sheath + Double helically applied aluminium tape armour (1A)
Outer sheath material & colour	Black Polyethylene (PE Type ST7) outer sheath (OD 31.0 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
XHI1AE / XHIAE / XHIAV 3.6/6kV–18/30kV 3 sizes										
☐ XHI1AE / XHIAE / XHIAV 3.6/6kV–18/30kV (1×95 mm²)	1×95 mm²	Class 2 Stranded Plain Copper	Portuguese XHI1AE XLPE dielectric	Outdoor PE	31.0	465	0.19	1,174.2	2,258	244 A
☐ XHI1AE / XHIAE / XHIAV 3.6/6kV–18/30kV (1×120 mm²)	1×120 mm²	Class 2 Stranded Plain Copper	Portuguese XHI1AE XLPE dielectric	Outdoor PE	36.6	549	0.15	1,635.4	3,145	282 A
☐ XHI1AE / XHIAE / XHIAV 3.6/6kV–18/30kV (1×150 mm²)	1×150 mm²	Class 2 Stranded Plain Copper	Portuguese XHI1AE XLPE dielectric	Outdoor PE	42.8	642	0.12	2,236.5	4,301	324 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/xhi1ae-xhiae-xhiav-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 (XHI1AE / XHIAE / XHIAV 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.