Power & distribution cables

XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV Cable



IEC 60502-2 (XHIOV 3-Core) · 3.6/6–18/30 kV · -25°C to +90°C · Min. bend 15 × OD

IEC 60502-2 (XHIOV 3-Core) | 3.6/6–18/30 kV

Application

XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV Cable manufactured to IEC 60502-2 (XHIOV 3-Core), rated 3.6/6 (7.2) 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	3×95 mm² Class 2 Stranded Copper
2	Insulation & Core Identification	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric + copper wire screen (95 mm²)
3	Screen / Bedding / Armour Layer	Non-hygroscopic polypropylene fillers & binder tape
4	Outer Protective Sheath	Black flame-retardant PVC outer sheath (OD 52.5 mm, XHIOV)

Technical data

Typical values

Nominal / reference voltage	3.6/6 (7.2) kV – 18/30 (36) kV	Conductor & core insulation	3×95 mm² Class 2 Stranded Copper · Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric + copper wire screen (95 mm²)
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 (XHIOV 3-Core)
Minimum bending radius	15 × OD	Screening / armour architecture	Non-hygroscopic polypropylene fillers & binder tape
Outer sheath material & colour	Black flame-retardant PVC outer sheath (OD 52.5 mm, XHIOV)	Standards	IEC 60502-2 (XHIOV 3-Core)

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
XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV 3 sizes										
☐ XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV (3×95 mm²)	3×95 mm²	Class 2 Stranded Plain Copper	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric +	Industrial PVC	52.5	788	0.19	3,368.0	6,477	244 A
☐ XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV (3×120 mm²)	3×120 mm²	Class 2 Stranded Plain Copper	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric +	Industrial PVC	61.9	928	0.15	4,689.9	9,019	282 A
☐ XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV (3×150 mm²)	3×150 mm²	Class 2 Stranded Plain Copper	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric +	Industrial PVC	72.4	1,086	0.12	6,414.2	12,335	324 A

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

Standards and approvals

- ✓ IEC 60502-2 (XHIOV 3-Core) 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/xhiov-3-6-6kv-18-30kv-iec-60502-2-copper-mv-cable**

Typical values for this cable type, based on Reference specification per IEC 60502-2 (XHIOV 3-Core) (XHIOV 3.6/6kV–18/30kV IEC 60502-2 Copper MV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.