Power & distribution cables

LXHIOV 3.6/6kV–18/30kV IEC 60502-2 Aluminium MV Cable



IEC 60502-2 (LXHIOV) · 3.6/6 (7.2) kV – 18/30 (36) kV · -25°C to +90°C · Min. bend 15 × OD

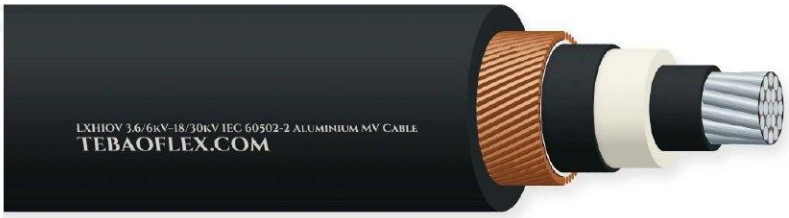
IEC 60502-2 (LXHIOV) | 3.6/6–18/30 kV

Application

LXHIOV 3.6/6kV–18/30kV IEC 60502-2 Aluminium MV Cable manufactured to IEC 60502-2 (LXHIOV), 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	1×95 mm² Class 2 Stranded Aluminium
2	Insulation & Core Identification	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric + outer semicon (Ø18.0 mm)
3	Screen / Bedding / Armour Layer	Concentric helically applied Bare Copper Wire Screen
4	Outer Protective Sheath	Black flame-retardant PVC outer sheath (OD 25.5 mm, LXHIOV)

Technical data

Typical values

Nominal / reference voltage	3.6/6 (7.2) kV – 18/30 (36) kV	Conductor & core insulation	1×95 mm² Class 2 Stranded Aluminium · Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric + outer semicon (Ø18.0 mm)
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 (LXHIOV)
Minimum bending radius	15 × OD	Screening / armour architecture	Concentric helically applied Bare Copper Wire Screen
Outer sheath material & colour	Black flame-retardant PVC outer sheath (OD 25.5 mm, LXHIOV)	Standards	IEC 60502-2 (LXHIOV)

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
LXHIOV 3.6/6kV–18/30kV IEC 60502-2 Aluminium MV 3 sizes										
☐ LXHIOV 3.6/6kV–18/30kV IEC 60502-2 Aluminium MV (1×95 mm²)	1×95 mm²	Class 2 Compacted Stranded Aluminium	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric +	Industrial PVC	25.5	382	0.30	407.7	1,073	188 A
☐ LXHIOV 3.6/6kV–18/30kV IEC 60502-2 Aluminium MV (1×120 mm²)	1×120 mm²	Class 2 Compacted Stranded Aluminium	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric +	Industrial PVC	30.1	452	0.23	567.7	1,494	218 A
☐ LXHIOV 3.6/6kV–18/30kV IEC 60502-2 Aluminium MV (1×150 mm²)	1×150 mm²	Class 2 Compacted Stranded Aluminium	Triple-extruded semicon + 3.6/6–18/30kV XLPE dielectric +	Industrial PVC	35.2	528	0.19	776.3	2,043	250 A

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

Standards and approvals

- ✓ IEC 60502-2 (LXHIOV) 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/lxhiov-3-6-6kv-18-30kv-iec-60502-2-aluminium-mv-cable**

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