shipboard & offshore power cable

LKMSM-MV 3.6/6-18/30 KV & LSM-HF

LKMSM-MV 3.6/6–18/30 kV & LSM-HF IEC 60092-354 Marine & Icebreaker MV

IEC 60092-354 · 3.6/6 kV – 18/30 kV · Shipboard & offshore power cable



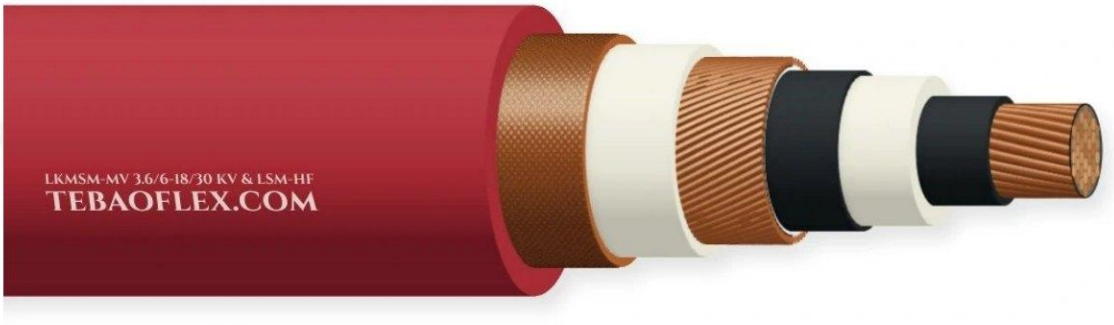
IEC 60092-354 | 3.6/6 kV – 18/30 kV (-40 to +90 °C) | Red SHF1 / SHF2 Marine MV Jacket

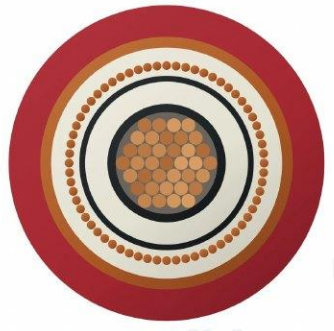
Application

LKMSM-MV 3.6/6–18/30 kV & LSM-HF IEC 60092-354 Marine & Icebreaker MV Propulsion Cable (IEC 60092-354) engineered for 3.6/6 kV – 18/30 kV service across -40 to +90 °C (min. bend radius 12 × OD).

Typical uses: Commercial Vessels & Cruise Ships, Offshore Oil & Gas Platforms (FPSO), Jack-Up & Semi-Submersible Drilling Rigs, Naval Surface Vessels & Submarines

Construction





Cross-section, not to scale

1. Stranded Copper Conductor (1×240 mm²)
2. Triple-Extruded XLPE MV Insulation
3. Concentric Copper Wire & Tape Screen (SM
4. Non-Magnetic Copper Braid Armour (LK)
5. Red SHF1 / SHF2 Marine MV Jacket

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV – 18/30 kV (IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A)	**Core / conductor construction**	Stranded Copper Conductor (1×240 mm²) — IEC 60228 Class 2 / Class 5 copper conductor for Pod Propulsion propulsion
Primary dielectric / buffering	Triple-Extruded XLPE MV Insulation — Dry-cured conductor screen + 8.7/15 kV XLPE + strippable insulation screen	**Continuous operating temperature**	−40...+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	Red SHF1 / SHF2 Marine MV Jacket — High-visibility red low-smoke zero-halogen outer sheath (IEC 60092-354)	**Minimum bending radius**	12 × OD
Armour, screen & mechanical duty	Non-Magnetic Copper Braid Armour (LK) — Braided copper wire armour over halogen-free inner sheath	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A		

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
LKMSM-MV 3.6/6-18/30 KV & LSM-HF Construction Schedule (−40...+90 °C) 3 sizes						
☐ **LKMSM-MV 3.6 3×50 mm² MV**	**3 × 50 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**42.5**	**2,980**	**22.5**	**510**
☐ **LKMSM-MV 3.6 3×95 mm² MV**	**3 × 95 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**51.8**	**4,690**	**42.8**	**620**
☐ **LKMSM-MV 3.6 3×150 mm² MV**	**3 × 150 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**61.2**	**6,840**	**67.5**	**735**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 50 mm²	**0.39**	**3.6/6 kV – 18/30 kV (195 A)**	**−40...+90 °C**
3 × 95 mm²	**0.19**	**3.6/6 kV – 18/30 kV (285 A)**	**−40...+90 °C**
3 × 150 mm²	**0.12**	**3.6/6 kV – 18/30 kV (365 A)**	**−40...+90 °C**

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- IEC 60092-354 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, 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/lkmsm-mv-3-6-6-18-30-kv-lsm-hf

Typical values for this cable type, based on IEC 60092-354 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.