halogen-free shipboard cable

LKM-HF & LKM-SHF2 0.6/1 KV

LKM-HF & LKM-SHF2 0.6/1 kV IEC 60092-353 Lightweight Unarmoured Shipbo



IEC 60092-353 · 0.6/1 kV · Halogen-free shipboard cable

IEC 60092-353 | **0.6/1 kV (-40 to +90 °C)** | **Lightweight SHF1 / SHF2 Outer Jacket**

Application

LKM-HF & LKM-SHF2 0.6/1 kV & 250 V XLPE-Insulated Unarmoured Lightweight SHF1 / Oil-Resistant SHF2 Shipboard Power & Control Cable (IEC 60092-353, 0.6/1 kV, -40 to +90 °C, min. bend radius 6 × OD).

Typical uses: Passenger Vessels, Ferries & Yachts, Merchant Marine Engine & Cargo Spaces, Offshore Living Quarters & Utility Modules, Shipyard Newbuild & Retrofit Electrical Outfitting

Construction





Cross-section, not to scale

1. Multi-Core Copper Conductors (12G1.5 mm²)
2. Numbered White XLPE Insulation
3. Halogen-Free Separator Tape
4. Lightweight SHF1 / SHF2 Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60092-353 / IEC 60092-360 SHF1 & SHF2 / IEC 60332-3-22 Cat. A)	**Core / conductor construction**	Multi-Core Copper Conductors (12G1.5 mm²) — 12 stranded annealed copper conductors (IEC 60228 Class 2 / Class 5)
Primary dielectric / buffering	Numbered White XLPE Insulation — White XLPE cores printed 1–11 plus Green/Yellow protective earth	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60092-353 / 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	Lightweight SHF1 / SHF2 Outer Jacket — Unarmoured low-smoke zero-halogen polyolefin or oil-resistant SHF2 sheath	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Halogen-Free Separator Tape — Non-hygroscopic polyester binder tape over cabled core assembly	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 60092-353 / 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 60092-353 / 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 60092-353 / 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
LKM-HF & LKM-SHF2 0.6/1 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **LKM-HF 4G2.5 mm²**	**4 × 2.5 mm² (or 4C × 14 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**13.2**	**275**	**1.5**	**80**
☐ **LKM-HF 7G2.5 mm²**	**7 × 2.5 mm² (or 7C × 14 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**15.8**	**415**	**2.6**	**95**
☐ **LKM-HF 12G1.5 mm²**	**12 × 1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**17.4**	**495**	**2.7**	**105**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 60092-353 / 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.
4 × 2.5 mm² (or 4C × 14 AWG)	**7.98**	**0.6/1 kV (26 A)**	**−40…+90 °C**
7 × 2.5 mm² (or 7C × 14 AWG)	**7.98**	**0.6/1 kV (21 A)**	**−40…+90 °C**
12 × 1.5 mm² (or 12C × 16 AWG)	**13.30**	**0.6/1 kV (14 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 60092-353 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/lkm-hf-lkm-shf2-0-6-1-kv

Typical values for this cable type, based on IEC 60092-353 / 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.