shipboard Ethernet & fieldbus data cable

LKSM-CAT7 S/FTP & LKSM-PROFIBUS

/ CAN-Bus Shipboard 10GbE Ethernet & F

IEC 61156-5 / IEC 60092-376 · 125/250 V · Shipboard ethernet & fieldbus data cable



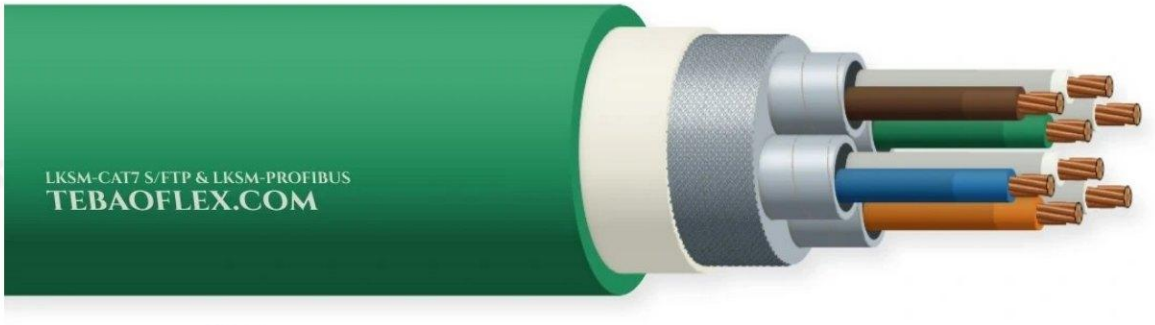
IEC 61156-5 / IEC 60092-376 | **125/250 V (-40 to +85 °C)** | **SHF1 / SHF2 Marine Data Outer Jacket**

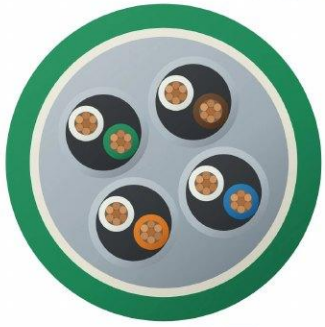
Application

LKSM-CAT7 S/FTP & LKSM-PROFIBUS / CAN-Bus Shipboard 10GbE Ethernet & Fieldbus Cable (IEC 61156-5 / IEC 60092-376) engineered for 125/250 V service across -40 to +85 °C (min. bend radius 8 × OD).

Typical uses: Shipboard 10GbE Integrated Bridge & Radar LAN, Marine Engine Room PROFIBUS DP & CAN-Bus, Offshore Platform PLC & SCADA Fieldbus, Cruise Ship Infotainment & Automation Backbones

Construction





Cross-section, not to scale

1. Stranded 24/7 AWG Copper Pairs (4×2)
2. Individual Pair Foil Shields (PiMF)
3. Tinned Copper Braid Overall Shield (S/FT
4. SHF1 / SHF2 Marine Data Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	125/250 V (IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved)	**Core / conductor construction**	Stranded 24/7 AWG Copper Pairs (4×2) — Vibration-resistant 7-strand copper with Foam-Skin PE insulation
Primary dielectric / buffering	Individual Pair Foil Shields (PiMF) — 100% Al/PET foil screen on each pair for 1000 MHz Cat.7 isolation	**Continuous operating temperature**	−40…+85 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	SHF1 / SHF2 Marine Data Outer Jacket — DNV/LR/RINA certified halogen-free flame-retardant sheath	**Minimum bending radius**	8 × OD
Armour, screen & mechanical duty	Tinned Copper Braid Overall Shield (S/FTP) — High-coverage tinned copper wire braid screen	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved		

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
LKSM-CAT7 S/FTP & LKSM-PROFIBUS Construction Schedule (−40…+85 °C) 3 sizes						
☐ **LKSM-CAT7 S 4×2×24 AWG Cat.7**	**4 × 2 × 24/7 AWG S/FTP**	**Stranded bare/tinned Cu (1000 MHz)**	**8.4**	**92**	**0.8**	**68**
☐ **LKSM-CAT7 S 1×2×0.64 PROFIBUS**	**1 × 2 × 0.64 mm (22 AWG)**	**Stranded tinned Cu + foil/braid**	**9.6**	**128**	**0.9**	**78**
☐ **LKSM-CAT7 S 2×2×0.50 CAN-Bus**	**2 × 2 × 0.50 mm² (20 AWG)**	**Stranded tinned Cu + braid**	**10.8**	**165**	**1.1**	**86**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4 × 2 × 24/7 AWG S/FTP	**84.00**	**100 Ω (10GbE Cat. 7)**	**−40…+85 °C**
1 × 2 × 0.64 mm (22 AWG)	**55.00**	**150 Ω (PROFIBUS DP)**	**−40…+85 °C**
2 × 2 × 0.50 mm² (20 AWG)	**39.00**	**120 Ω (Marine CAN-Bus)**	**−40…+85 °C**

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

Standards and approvals

- IEC 61156-5 / IEC 60092-376 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/lksm-cat7-s-ftp-lksm-profibus

Typical values for this cable type, based on IEC 61156-5/6 Cat. 7 (1000 MHz) & IEC 60092-376 / DNV-LR-ABS Approved. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.