LSZH Flame Retardant Marine Cable

LOW SMOKE · ZERO HALOGEN · IEC 60754

A halogen-free construction that limits smoke density and acid gas emission, so a fire in an accommodation space does not become a smoke event.

SHEATH	SMOKE	HALOGEN	STANDARD
LSZH	IEC 61034	IEC 60754	IEC 60092-353

TYPICAL APPLICATIONS

- Passenger and cruise vessels
- Accommodation and public areas
- Offshore living quarters
- Tunnels and enclosed spaces

CONSTRUCTION

- Tinned copper conductor, class 2
- XLPE or LSZH insulation
- LSZH sheath, halogen free
- Smoke density to IEC 61034-2
- Halogen gas emission to IEC 60754-1 / -2
- Flame propagation to IEC 60332-1-2 and IEC 60332-3-22

TECHNICAL DATA

Rated voltage	0.6/1kV (300/500 V option)	**Smoke density**	IEC 61034-2, light transmittance limit per specification
Conductor	Tinned copper, class 2 to IEC 60228	**Halogen emission**	IEC 60754-1 and IEC 60754-2, acid gas conductivity limit
Insulation	XLPE or LSZH compound	**Flame propagation**	IEC 60332-1-2 and IEC 60332-3-22 cat. A/B
Sheath	LSZH compound, halogen free	**Construction standard**	IEC 60092-353

Typical values. The final construction is confirmed on the order datasheet and the released drawing.

STANDARDS, TESTING AND DOCUMENTS

Routine tests	Conductor resistance, voltage test and insulation resistance on every length
Type tests	Type-test reports for each construction, witnessed by a third party on request
Documents with the drum	Packing list, drum list, routine test certificate, datasheet, CO / FORM A
Traceability	Drum number marked and recorded against the routine test certificate

OTHER CONSTRUCTIONS FROM THE SAME RANGE

0.6/1kV EPR Insulated Marine Power Cable	www.zmsmarinecable.com/products/marine-power-cables/0-6-1kv-epr-insulated-marine-power-cable/
3.6/6kV–26/35kV Medium Voltage Marine Power Cable	www.zmsmarinecable.com/products/marine-power-cables/mv-shipboard-propulsion-cable/

PACKING AND DELIVERY

Drum	Wooden or steel-framed export drum, 250–500 m per drum by cross-section
Packing	Sealed ends, protected lugs, desiccant, UV-resistant wrap
Marking	Drum no., designation, voltage, cross-section, length, gross weight
Lead time	15–25 working days for standard builds
Terms	FOB Qingdao, Tianjin or Shanghai. CIF, CFR and DAP on request

HOW TO ORDER

To quote, send the voltage class (U0/U), conductor material and cross-section, screen or armour, sheath, drum length, delivery port and the standard the project specifies. We return a released drawing, the test programme and a drum plan with the quotation.

SELECTION NOTES

Is LSZH the same as halogen free?
In practice, yes. LSZH (low smoke zero halogen) is the common name for the compound family that meets IEC 60754 halogen limits and IEC 61034 smoke limits. Some specifications add a low-toxicity requirement, which is tested separately.

Does LSZH cable cost more?
The compound is more expensive than PVC or standard SHF, and it processes more slowly. On a passenger vessel the LSZH cable is normally confined to the zones where SOLAS requires it, which keeps the cost impact proportionate.

Can LSZH and PVC cable share a tray?
They can be installed on the same tray, but the benefit of the LSZH construction is lost in a fire if halogenated cable runs alongside it. Fire-safety design normally keeps halogen-free routes separate where the zone requires it.

Certification. Environmental management to ISO 14001:2015 and occupational health and safety to ISO 45001:2018, with CE marking under the EU low-voltage and EMC directives. Independent inspection and type testing are carried out through ISO/IEC 17020 and 17025 accredited laboratories. Certificate numbers and validity dates are published at www.zmsmarinecable.com/certificates/.

Request a quotation for this cable

Send the specification sheet or the cable schedule and we return a released drawing, the test programme and a drum plan with the price.

Tel +86 371 6782 9333
WhatsApp +86 173 0383 6349
info@zmscable.com
www.zmsmarinecable.com