# LANmark Maritime Cable

**LANMARK MARITIME S/FTP AWG23 CAT 7 LSZH SHF1 DNV ORANGE 1000M REEL**

**Aginode Ref:** N10M.102

- DNV certified cable for installation on board ships and sea movable constructions
- S/FTP construction with individually shielded pairs and global tinned copper braid
- LSZH SHF1 sheathing
- Full compliance with TIA Category 6A and ISO Category 7 cable standards
- Class EA Channel compliance with LANmark-6A ULTIM connector
- Class F Channel compliance with LANmark-7 Maritime connector
- 1000m drum



EN 50173 EN 50288-4-1 IEC 60092-360 IEC 60332-1 IEC 61156-5 IEEE 802.3bt (PoE++) ISO/IEC 11801

## Design

LANmark Maritime S/FTP SHF1 cable is fully compliant with all electrical and mechanical requirements of ISO/IEC 61156-5 for Category 7 and of IEC 60092-360 for installations for shipboard and offshore units.

Its SHF1 sheath is made of halogen free material, emitting limited fumes and no acid gasses in case of fire.

When the cable is terminated onto LANmark Maritime GG45 connectors, Class F Channel performance according to ISO/IEC 11801 is met.

In conjunction with LANmark-6A ULTIM connectors, Category 6A and Class EA Link and Channel performances are met, according to TIA 568.2-D and ISO/IEC 11801 respectively.

## Application

LANmark Maritime cable supports all current and future applications specified for Category 6A and Category 7, requiring bandwidths up to 600 MHz, including 10GBase-T.

- 10Base-T, 100Base-T, 1GBase-T, 10GBase-T
- CATV

## Installation

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the

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cable’s print legend.

## Guarantees

The DNV certificate related to this cable can be downloaded from our website.

Traceability codes on both cable and packaging ensure quality validation of the installed cable.

Installations with LANmark Maritime cable and LANmark-6A or -7 connectivity are qualified for a full Class EA or Class F System Warranty for a period of 25 years, including parts, installation, Channel performance and application support, as described in the Aginode LANmark Warranty conditions.

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# LANmark Maritime S/FTP AWG23 Cat 7 LSZH SHF1 DNV Orange 1000m reel

## Characteristics

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|---|---|
| **Construction characteristics** | |
| Outer sheath | SHF 1 |
| Sheath colour | Orange |
| Type of cable | S/FTP |
| Individual screen | Aluminium / Polyester tape |
| Overall screen | Tinned copper braid |
| **Dimensional characteristics** | |
| Approximate weight | 61 kg/km |
| Number of pairs | 4 |
| Conductor cross-section (AWG/KCMIL) | 23 |
| Diameter over insulation | 1.32 mm |
| Nominal outer diameter (mm) | 7.7 mm |
| **Electrical characteristics** | |
| Mutual capacitance | 56 nF/km |
| Characteristic impedance | 100 Ohm |
| Max. DC resistance of the conductor at 20°C | 75 Ohm/km |
| **Mechanical characteristics** | |
| Maximum operating pulling force | 100 N |
| **Transmission characteristics** | |
| Nominal Velocity of Propagation (NVP) | 82 % |
| Propagation delay, max. 100 MHz | 536 ns/100m |
| **Usage characteristics** | |
| Gases corrosivity | IEC 60754-1; IEC 60754-2 |
| Operating temperature, range | -20...60 °C |
| Category | Cat. 7 |
| Flame retardant | IEC 60332-1 |

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| | |
|---|---|
| Smoke density | IEC 61034 |
| Packaging | Drum 1000 m |
| Ambient installation temperature, range | -10...60 °C |
| Minimum Bend Radius - During Installation (under Tension) | 62 mm |
| Minimum Bend Radius - Installed | 31 mm |

## dnv

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