# LANmark Industry Copper cables

**LANMARK INDUSTRY S/FTP AWG23 CAT 6A LSZH CCA ORANGE + PE FCA BLACK 500M REEL**



**Aginode Ref:** N10i.005-OCKF

- For installation in industrial premises
- High shielding performance for harsh environments
- Enhanced mechanical properties
- Designed to support industrial Ethernet based automation
- Optimised for use with LANmark connectors
- PE outer jacket
- LSZH inner jacket with enhanced reaction-to-fire performance according to CPR classification Cca-s1a,d1,a1 (h/EN50575:2014+A1:2016)

## STANDARDS

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

### Specification

The high performing LANmark Industry S/FTP LSZH + PE cables meet or exceed all Category 6A parameters. They comply with the electrical and mechanical requirements of the ISO/IEC 11801-3:2017 standard for industrial premises and with the MICE rating for environmental conditions.

When terminating the cable with LANmark-6A connectors, the Class EA Permanent Link requirements of ISO/IEC 11801 are met.

When used with LANmark-6 connectivity, optimal headroom to 250MHz Class E performance is ensured.

The cables offer a protective PE sheath which is water, UV and moisture resistant. They can be installed outdoors in ducts and are suitable for use indoors when the PE sheath is removed.

This cable version is made with an inner LSZH jacket complying with enhanced reaction-to-fire performance Cca-s1a,d1,a1 according to the European CPR classification. The cable with its outer PE jacket is classified Fca.

### Application

*All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.*

LANmark Industry S/FTP LSZH + PE cables will support industrial Ethernet applications as well as high speed data applications.

- 10Base-T,
- 100 Base-T
- 1GBase-T
- 10GBase-T
- Industrial Ethernet

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## Screening

LANmark Industry S/FTP LSZH + PE cables consist of individually screened pairs, bundled by an overall braid. They comply with the EMC requirements for screened cables and show excellent transfer impedance values. They are designed for electrically noisy environments.

Transfer impedance (Grade 1)

- 10mOhm/m at 1 MHz
- 10mOhm/m at 10 MHz
- 30mOhm/m at 30 MHZ
- 60mOhm/m at 100 MHz

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# LANmark Industry S/FTP AWG23 Cat 6A LSZH Cca Orange + PE Fca Black 500m reel

## Characteristics

| | |
|---|---|
| **구조적 특성** | |
| Halogen free | 예 |
| Individual screen | Aluminium / Polyester tape |
| 내피 | Low smoke, zero halogen thermoplastic compound |
| Lead free | Yes |
| 피복 | 폴리에틸렌 |
| Overall screen | Tinned copper braid |
| Sheath colour | Orange / Black |
| Type of cable | S/FTP |
| **치수** | |
| 무게(근사치) | 66 kg/km |
| Conductor cross-section (AWG/KCMIL) | 23 |
| Diameter over insulation | 1.2 mm |
| Number of pairs | 4 |
| 외경 | 9.2 mm |
| **전기적 특성** | |
| Characteristic impedance | 100 Ohm |
| 20° C에서 최대 도체 DC저항 | 95 Ohm/km |
| Maximal operating frequency | 600 MHz |
| Mutual capacitance | 56 nF/km |
| **기계적 특성** | |
| Maximum permanent tensile load | 0.1 kN |
| Maximum pulling force by laying | 0.12 kN |
| **Transmission characteristics** | |
| Coupling attenuation at 30 MHz | 80 dB |
| Nominal Velocity of Propagation (NVP) | 82 % |

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| | |
|---|---|
| Propagation delay, max. 100 MHz | 535 ns/100m |
| Skew | 25 ns/100m |
| **사용 특성** | |
| Ambient installation temperature, range | -5...70 °C |
| Category | Cat. 6A |
| Electro magnetic interference resistance | Yes |
| Field of application | Fixed installations |
| Fire load | 700 MJ/km |
| 난연 | IEC 60332-1 |
| Length | 500 m |
| 최소 굽힘 반지름 - 설치시 (장력작용) | 130 mm |
| 최소 굽힘 반지름 - 설치 후 | 86 mm |
| 操作温度范围 | -20...70 °C |
| Packaging | Reel |
| RoHS compliant | Yes |
| Silicone free | Yes |

## 문서

Freetable LM6A FFTP V3.xls xls — 25.5 KB 다운로드

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