LANmark Industry Copper cables

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



Aginode Ref: N10i.005-ODKF

- 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 reaction-to-fire performance according to CPR classification Dca-s2,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 reaction-to-fire performance Dca-s2,d1,a1 according to the European CPR classification. The cable with its outer PE jacket is classified Fca.

Application

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

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.

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

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 Dca 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	8.6 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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