

LANmark Industry Copper cables

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

Contact

UK Distributor
Phone: 01480 415400
sales@comtec-comms.com

Nexans 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)

DESCRIPTION

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.

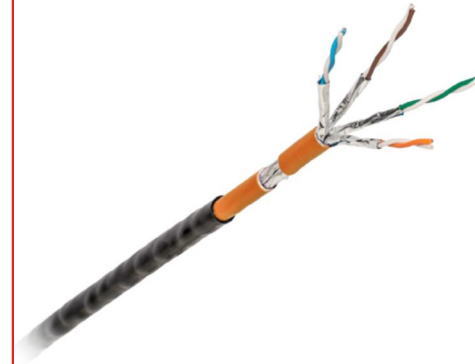
The cables offer a protective PE sheath which is water, UV and moisture resistant. They can be installed outdoors in ducts and are suitable for use indoors when the PE sheath is removed.

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

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



LANmark
Industry

STANDARDS

International EN 50173;
EN 50288-4-1; IEC 61156-5;
IEEE 802.3bt (PoE++); ISO/
IEC 11801; ISO/IEC 24702



Halogen free
Yes



Lead free
Yes



Flame retardant
IEC 60332-1



Operating temp.
-20 - 70 °C



Ambient installation T°
C range
-5 - 70 °C



Electro magnetic
interference resistance
Yes



RoHS compliant
Yes

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

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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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CHARACTERISTICS

Construction characteristics

Type of cable	S/FTP
Individual screen	Aluminium / Polyester tape
Overall screen	Tinned copper braid
Inner sheath	Low smoke, zero halogen thermoplastic compound
Outer sheath	PE
Sheath colour	Orange / Black
Halogen free	Yes
Lead free	Yes

Dimensional characteristics

Number of pairs	4
Conductor cross-section (AWG)	23
Diameter over insulation	1.2 mm
Outer Diameter	9.2 mm
Approximate weight	66 kg/km

Electrical characteristics

Maximal operating frequency	600 MHz
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	95 Ohm/km
Mutual capacitance	56 nF/km

Transmission characteristics

Nominal Velocity of Propagation (NVP)	82 %
Skew	25 ns/100m
Propagation delay, max. 100 MHz	535 ns/100m
Coupling attenuation at 30 MHz	80 dB

Mechanical characteristics

Maximum permanent tensile load	0.1 kN
Maximum pulling force by laying	0.12 kN

Usage characteristics

Field of application	Fixed installations
Packaging	Reel
Length	500 m
Fire load	700 MJ/km
Flame retardant	IEC 60332-1
Operating temperature, range	-20 - 70 °C
Ambient installation temperature, range	-5 - 70 °C
Category	Cat. 6A
Minimum Bend Radius - During Installation (under Tension)	130 mm
Minimum Bend Radius - Installed	86 mm
Silicone free	Yes
Electro magnetic interference resistance	Yes
RoHS compliant	Yes

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