

# LANmark Industry Copper cables

LANmark Industry SF/UTP Cat 5e LSZH In/Outdoor Eca Black 1000m reel

Contact  
sales  
datanetworks.cn@nexans.com

**Nexans Ref.:** N10i.101-KE

- Universal Indoor/Outdoor cable
- For installation in areas exposed to moisture, UV light and water
- Shielded construction for robust performance
- LSZH sheath with enhanced mechanical properties
- Guaranteed performance to Cat 5e - 100MHz
- Optimised for use with LANmark connectors

## DESCRIPTION

### Specification

The LANmark Industry SF/UTP LSZH cable features performance up to 100MHz. When terminated with LANmark-5 connectors it meets the Class D requirements of ISO/IEC 11801:2011. Its specially developed LSZH In & Out sheath gives mechanical strength as well as resistance against UV light and water.

### Application

The LANmark Industry SF/UTP LSZH cable is the appropriate cable for fixed LAN networks in industrial and exposed areas. It will support industrial Ethernet applications as well as high speed data applications.

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

This cable is ideal for connections to CCTV cameras and antennae.

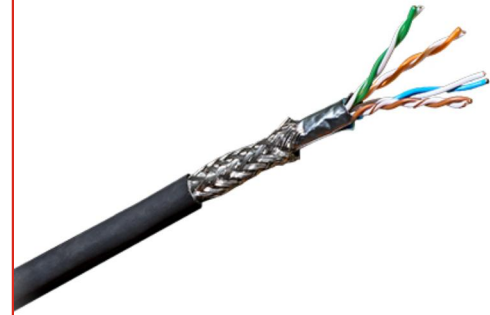
### Screening

The SF/UTP cable consists of 4 pairs, bundled by an overall foil and a braid. It complies with the EMC requirements for screened cables and shows excellent transfer impedance values. It is designed for electrically "noisy" environments.

### Fire classification

- Fire test according to IEC 60332-1

### Cable sheath



**LANmark**  
Industry

## STANDARDS

**International** EN 50288;  
IEC 61156-5; ISO/IEC 11801;  
ISO/IEC 24702



Halogen free  
Yes



Lead free  
Yes



Flame retardant  
IEC 60332-1



Operating temp.  
-40 - 75 °C



Ambient installation T°  
C range  
-20 - 50 °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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- Outer sheath LSZH (black) compound for superior UV, water and moisture resistance. This cable is suitable for installation in ducts. It is not suitable for direct burial. The cable can be installed indoors as the cable meets IEC 60332-1 and therefore the installation requirements of EN 50174-2.



Halogen free  
Yes



Lead free  
Yes



Flame retardant  
IEC 60332-1



Operating temp.  
-40 - 75 °C



Ambient installation T°  
C range  
-20 - 50 °C



Electro magnetic  
interference resistance  
Yes



RoHS compliant  
Yes

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## CHARACTERISTICS

### Construction characteristics

Type of cable	SF/UTP
Individual screen	None
Overall screen	Tinned copper braid
Inner sheath	None
Outer sheath	LSZH
Sheath colour	Black
Halogen free	Yes
Lead free	Yes

### Dimensional characteristics

Number of pairs	4
Conductor cross-section (AWG/KCMIL)	24
Diameter over insulation	1.05 mm
Outer Diameter	6.9 mm
Approximate weight	55 kg/km

### Electrical characteristics

Maximal operating frequency	100 MHz
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	70 Ohm/km
Mutual capacitance	56 nF/km

### Transmission characteristics

Nominal Velocity of Propagation (NVP)	68 %
Skew	40 ns/100m
Propagation delay, max. 100 MHz	473 ns/100m
Coupling attenuation at 30 MHz	80 dB

### Mechanical characteristics

Maximum permanent tensile load	0.1 kN
Maximum pulling force by laying	0.45 kN

### Usage characteristics

Field of application	Fixed installations
Packaging	Reel
Length	1000 m
Fire load	700 MJ/km
Flame retardant	IEC 60332-1
Operating temperature, range	-40 - 75 °C
Ambient installation temperature, range	-20 - 50 °C
Category	Cat. 5e
Minimum Bend Radius - During Installation (under Tension)	60 mm
Minimum Bend Radius - Installed	30 mm
Silicone free	Yes
Electro magnetic interference resistance	Yes
RoHS compliant	Yes

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The Nexans logo features a stylized red 'N' followed by the word 'Nexans' in a black, sans-serif font.

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## SELLING AND DELIVERY INFORMATION

Please note that Nexans has a range of patch panels and outlets for installations in industrial areas.