

# LANmark-7A Cable

LANmark-7A 1600 S/FTP AWG22 Cat 7A 1600MHz LSZH B2ca s1a d1 a1  
Orange 1000m reel

Contact  
Sales  
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Nexans Ref.: N100.381-OB

- Exceeds Category 7A in terms of ACR and Frequency Range
- Suitable for channels with capacity above 25Gbps
- AWG22 Wire Size
- Positive Attenuation to Crosstalk Ratio up to 1600MHz
- Optimised for use with LANmark-7A GG45 connector
- Easy to install with Cat 7A connectivity through special foil construction
- Superior reaction-to-fire performance according to CPR classification B2ca-s1a,d1,a1 (h/EN50575:2014+A1:2016)

## DESCRIPTION

### Description

LANmark-7A are 4 pair S/FTP cables with individual pair foils and an overall braid offering upper frequencies of at least 1250MHz but up to 1600MHz. All cables are fully compliant with Category 7A standard and offer even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR all cables supports applications beyond 10GBASE-T, including 25GBASE-T.

### Application

LANmark-7A is the highest performing standardised cabling solution in the enterprise market and will support all current data applications and all planned applications using cabling up to Class FA.

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T up to 30m
- POE, POE+, POE++ (Draft)
- Cable sharing applications including CATV up to 862MHz
- Any future Class FA application

### Installation

Ease of Installation is one of the main features of the LANmark-7A cable. Extra attention has been paid to ensure that the screen coverage is maintained and foils do not open during installation. The cable has been specially designed to be used in conjunction with the LANmark-7A GG45 12C connector.

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



**LANmark-7A**

## DECLARATION OF PERFORMANCE

B2ca-s1a,d1,a1

## STANDARDS

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



Lead free  
Yes



Ambient installation T°  
C range  
0 - 50 °C



Operating temp.  
-20 - 60 °C



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3-24



Smoke density  
IEC 61034-2



Gases corrosivity  
IEC 60754-1, IEC  
60754-2

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## CHARACTERISTICS

### Construction characteristics

Type of cable	S/FTP
Screen	Aluminium foil + tinned copper braiding
Drain wire	No
Lead free	Yes
Outer sheath	LSZH
Sheath colour	Orange

### Dimensional characteristics

Number of pairs	4
Diameter over insulation	1.58 mm
Nominal outer diameter	8.3 mm
Conductor cross-section (AWG/KCMIL)	22
Approximate weight	78 kg/km

### Electrical characteristics

Characteristic impedance	100 Ohm
Max. transfer impedance at 30 MHz (Ohm/km)	50 Ohm/km
Max. DC resistance of the conductor at 20°C	85 Ohm/km
Mutual capacitance	45 nF/km

### Transmission characteristics

Skew	25 ns/100m
Nominal Velocity of Propagation (NVP)	76 %
Propagation delay, max. 100 MHz	536 ns/100m
Coupling attenuation at 30 MHz	>85 dB

### Mechanical characteristics

Maximum operating pulling force	100 N
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### Usage characteristics

Category	Cat. 7A
Range	LANmark-7A
Ambient installation temperature, range	0 - 50 °C
Operating temperature, range	-20 - 60 °C
Minimum Bend Radius - During Installation (under Tension)	69 mm
Minimum Bend Radius - Installed	34 mm
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3-24
Smoke density	IEC 61034-2
Gases corrosivity	IEC 60754-1, IEC 60754-2
Length	1000 m
Packaging	Reel