

LANmark-7A Cable

LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1
Orange 1000m reel

Contact

Sales
datanetworks.info@nexans.com

Nexans Ref.: N100.371-OD

- High Quality Data Cables for simultaneous use with POE+ and POE++
- All Cable exceed Category 7A in terms of ACR and Frequency Range
- Superior Performance with positive ACR over the full frequency range
- Optimised for use with LANmark-7A GG45 connector
- Easy to install with GG45 connectivity through special foil construction

DESCRIPTION

p>Description

LANmark-7A is a 4 pair S/FTP cable with individual pair foils and an overall braid offering superior performance up to at least 1250MHz. It is fully compliant with the latest Category 7A standard and offers even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR up to at least 1250MHz the cable supports the applications like 10GBASE-T as well as 25GBASE-T

Application

LANmark-7A is the highest performing standardised cabling solution in the market and will support all current Ethernet applications up to 25G and all planned applications using cabling up to Class FA.

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T
- 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

Dca-s2,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
-



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	1.45 mm
Nominal outer diameter	7.7 mm
Conductor cross-section (AWG/KCMIL)	23
Approximate weight	61 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	80 Ohm/km
Mutual capacitance	45 nF/km

Transmission characteristics

Skew	25 ns/100m
Nominal Velocity of Propagation (NVP)	82 %
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)	62 mm
Minimum Bend Radius - Installed	31 mm
Flame retardant	IEC 60332-1
Fire retardant	-
Smoke density	IEC 61034-2
Gases corrosivity	IEC 60754-1, IEC 60754-2
Length	1000 m
Packaging	Reel