

LANmark-7 Cable

LANmark-7 S/FTP Dual AWG23 Cat 7 LSZH Dca s2 d1 a1 Orange 500m reel

Nexans reference: [N100.367-OD](#)

- S/FTP cable with individually shielded pairs and global braid
- Exceeds Category 7 ACR with >30dB
- Optimised for use with LANmark-7A GG45 connector
- Easy to install
- Dual version (2 x 4 prs) permits two cables to be installed in one go

Note: product picture showing 4pr version

POPIS

Description

LANmark-7 cable has an S/FTP construction with individual pair foils and an overall braid offering superior performance in terms of ACR. It is fully compliant with the Category 7 standards and when installed together with the GG45 LANmark-7A connector, the system is guaranteed to exceed all channel requirements in all configuration scenarios (up to 4-connector channels).

Application

LANmark-7 will support all current and planned data applications developed for cabling up to Class F.

- All Ethernet applications including
- 1000Base-T
- 1000Base-TX
- 10GBase-T
- CATV up to 862MHz
- Any future Class F application

Installation

Ease of Installation is one of the unique features of LANmark-7 cable. Extra attention has been paid to ensure screen coverage is maintained both during and after installation. The cable has been designed specifically to offer both optimum performance and ease of termination when used in conjunction with the LANmark-7A GG45 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-7

STANDART

Mezinárodní EN 50173;
EN 50288-4-1; ISO/IEC 11801;
ISO/IEC 61156-5



Bezolovnatý
Yes



Ambient installation T°C range
0 .. 50 °C



Operating temp.
-20 .. 60 °C



Samozhášivost
IEC 60332-1



Hustota dýmu
IEC 61034-2



Gases corrosivity
IEC 60754-1, IEC 60754-2

Všechny konstrukční výkresy, návrhy, specifikace, plány a detaily týkající se váhy, velikosti, rozměrů, které jsou obsažené v technické nebo komerční dokumentaci Nexans mají pouze oznamovací charakter a nemají charakter Nexans závazných oficiálních dokumentů.

Vytvořené 20.9.17 pro Hana Malá www.nexans.cz Strana 1 / 3

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VLASTNOSTI

Konstrukční charakteristika

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

Rozměrová charakteristika

Number of pairs	8
Diameter over insulation	1,42 mm
Nominal outer diameter	7,0 mm
Conductor cross-section (AWG)	23
Approximate weight	61 kg/km

Electrical characteristics

Characteristic impedance	100 Ohm
Max. transfer impedance at 30 MHz (Ohm/km)	50 Ohm/km
Mutual capacitance	45 nF/km
Max. DC resistance of the conductor at 20°C	80 Ohm/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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Charakteristika použití

Category	Cat. 7
Range	LANmark-7
Ambient installation temperature, range	0 .. 50 °C
Operating temperature, range	-20 .. 60 °C
Minimum Bend Radius - During Installation (under Tension)	56 mm
Minimum Bend Radius - Installed	28 mm
Samozhášivost	IEC 60332-1
Hustota dýmu	IEC 61034-2
Gases corrosivity	IEC 60754-1, IEC 60754-2
Length	500 m
Packaging	Reel

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ELECTRICAL PERFORMANCE LANMARK-7 600 S/FTP CABLE

Electrical Performance LANmark-7 600 S/FTP Cable

Frequency (MHz)	Attenuation (dB/100m)		NEXT (in dB)		ACR (in dB)		PS-NEXT (in dB)		ACR-F (in dB)		PS-ACR-F (in dB)		Return Loss (in dB)	
	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1.00	4.0	1.8	75.0	100.0	71.0	98.2	72.0	98.0	75.0	98.0	75.0	96.0	20.0	
4.00	4.0	3.5	75.0	100.0	71.0	96.5	72.0	98.0	75.0	98.0	75.0	96.0	23.0	26.0
10.00	5.9	5.5	75.0	100.0	69.1	94.5	72.0	98.0	75.0	98.0	72.3	96.0	25.0	28.0
16.00	7.4	6.8	75.0	100.0	67.6	93.2	72.0	98.0	71.2	96.0	68.2	94.0	25.0	28.0
20.00	8.3	7.7	75.0	100.0	66.7	92.3	72.0	98.0	69.3	94.0	66.3	92.0	25.0	28.0
31.25	10.4	9.6	75.0	100.0	64.6	90.4	72.0	98.0	65.4	90.0	62.4	88.0	23.6	26.0
62.50	14.9	14.0	75.0	100.0	60.1	86.0	72.0	98.0	59.4	84.0	56.4	82.0	21.5	25.0
100.00	19.0	17.7	72.4	100.0	53.4	82.3	69.4	98.0	55.3	75.0	52.3	73.0	20.1	24.0
155.00	24.0	22.8	69.5	96.0	45.6	73.2	66.5	93.0	51.5	70.0	48.5	68.0	18.8	23.0
250.00	31.0	29.0	66.4	94.0	35.5	65.0	63.4	91.0	47.3	66.0	44.3	64.0	17.3	22.0
300.00	34.2	32.1	65.2	92.0	31.1	59.9	62.2	88.0	45.8	54.0	42.8	52.0	17.3	20.0
600.00	50.1	45.5	60.7	90.0	10.6	44.5	57.7	86.0	39.7	54.0	36.7	52.0	17.3	20.0

all values are specified at 20°C