

# LANmark-7 Cable

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

## Contact

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

Nexans Ref.: N100.365-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

## DESCRIPTION

### 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**

## 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

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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## 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	1.42 mm
Nominal outer diameter	7.0 mm
Conductor cross-section (AWG/KCMIL)	23
Approximate weight	50 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. 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
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

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## ELECTRICAL PERFORMANCE LANMARK-7 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

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