LANmark-6 F1/UTP AWG24 Cat 6 350MHz LSZH Dca s2 d1 a1 Orange 1000m reel

Nexans Ref.: N100.622-OD Country Ref.: 1067905

- F1/UTP and F2/UTP constructions
- · Comply with all Category 6 cable standards
- Support Class E applications
- · Central cross member maintains geometry and performance
- · Tested up to 350MHz
- Orange LSZH sheath

DESCRIPTION

Application

Nexans LANmark-6 cables are the ideal solution for most of today's network requirements in normal office environments. They are manufactured and tested to the latest Category 6 specifications defined in the International and American cable standards and are designed to meet the quality and performance criteria needed to support all applications up to 250 MHz.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- future class E applications

Design

The LANmark-6 F1/UTP cables have AWG 24 solid copper wires and comply with IEC 60228.

The PE central cross filler helps maintain the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.

The cables are available with a Dark Grey PVC or an Orange LSZH sheath.

Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Nexans LANmark-6 cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

Installation



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LANmark-6

DECLARATION OF PERFORMANCE

Dca-s2,d1,a1

STANDARDS

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



LANmark-6 F1/UTP cables have a shielded construction offering a global foil around the 4 pairs with the aluminium side facing outwards. This increases installation efficiency as the foil does not need to be folded back to establish contact with the EMC rear cover of the LANmark connectors.

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.

Guarantees

The LANmark-6 cable performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

Traceability codes on both cable and packaging ensure quality validation of the installed cable.

Installations with LANmark-6 cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Channel Performance, Application Support and Labour, as described in the Nexans Certified System Warranty.









-20 ... 60 °C







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CHARACTERISTICS

Construction characteristics	
Type of cable	F/UTP
Outer sheath	LSZH
Colour	Orange
Screen	Aluminium foil
Dimensional characteristics	
Minimum outer diameter	- mm
Maximum outer diameter	- mm
Diameter over insulation	1.13 mm
Conductor cross-section (AWG/KCMIL)	24
Approximate weight	52 kg/km
Nominal outer diameter	7.3 mm
Number of pairs	-
Electrical characteristics	
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	85 Ohm/km
Mutual capacitance	56 nF/km
Transmission characteristics	
Attenuation Crosstalk Ratio, 250MHz	5.5 dB/100m
Coupling attenuation at 30 MHz	>70 dB
Nominal Velocity of Propagation (NVP)	70 %
Propagation delay, max. 100 MHz	536 ns/100m
Skew	30 ns/100m
Mechanical characteristics	
Maximum operating pulling force	100 N
Usage characteristics	
Category	Cat. 6
Range	LANmark-6
Minimum Bend Radius - During Installation (under Tension)	58 mm
Minimum Bend Radius - Installed	29 mm
Ambient installation temperature, range	-10 60 °C
Operating temperature, range	-20 60 °C
Flame retardant	IEC 60332-1
Fire retardant	-
Smoke density	IEC 61034
Length	1000 m
Packaging	Reel
Field of application	Indoor

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LANmark-6 Shielded Cable

LANmark-6 F1/UTP AWG24 Cat 6 350MHz LSZH Dca s2 d1 a1 Orange 1000m reel

	IL		NE	NEXT		PSNEXT		ACR-F		PS ACR-F		RL	
Freq.	in Db/100m		in dB		in dB		in dB		in dB		in dB		
in MHz	Max.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	
1	2,0	2,0	74,3	80,3	72,3	78,3	67,8	72,8	64,8	69,8	20,0	22,0	
4	3,8	3,8	65,3	71,3	63,3	69,3	55,8	60,8	52,8	57,8	23,0	25,0	
10	6,0	6,0	59,3	65,3	57,3	63,3	47,8	52,8	44,8	49,8	25,0	27,0	
16	7,6	7,6	56,2	62,2	54,2	60,2	43,7	48,7	40,7	45,7	25,0	27,0	
20	8,5	8,5	54,8	60,8	52,8	58,8	41,8	46,8	38,8	43,8	25,0	27,0	
31,25	10,7	10,7	51,9	57,9	49,9	55,9	37,9	42,9	34,9	39,9	23,6	25,6	
62,5	15,4	15,4	47,4	53,4	45,4	51,4	31,9	36,9	28,9	33,9	21,5	23,5	
100	19,8	19,8	44,3	50,3	42,3	48,3	27,8	32,8	24,8	29,8	20,1	22,1	
155	25,2	25,2	41,4	47,4	39,4	45,4	24,0	29,0	21,0	26,0	18,8	20,8	
200	29,0	29,0	39,8	45,8	37,8	43,8	21,8	26,8	18,8	23,8	18,0	20,0	
250	32,8	32,8	38,3	44,3	36,3	42,3	19,8	24,8	16,8	21,8	17,3	19,3	
300	-	36,4	-	43,1	-	41,1	-	23,3	-	20,3	-	18,8	
350	-	39,8	-	42,1	-	40,1	-	21,9	-	18,9	-	18,3	

ELECTRICAL PERFORMANCE LANMARK-6 SHIELDED CABLE

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