LANmark-6 Cable

LANMARK-6 U/UTP LSZH IEC 60332-3-22 305M REEL

Aginode Ref: N100.604-O6

- Complies to all Category 6 cable standards
- Supports all Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz
- Fire retardant according to IEC 60332-3-22



STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
IEC 60332-3
IEC 61156-5
ISO/IEC 11801-1

Application

Aginode 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 cables have AWG 23 solid copper wires and comply with IEC 60228. The central cross filler helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable. The cables has LSZH out sheath and fire retardant properties compliant with IEC 60332-3-22 .

Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Aginode LANmark-6 cables exceed the requirements of

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the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

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 Aginode Certified System Warranty.

Electrical Performance LANmark-6 Cable

	IL		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.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
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

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Characteristics

Construction characteristics	
Outer sheath	LSZH-FR
Screen	Unshielded
Type of cable	U/UTP
Colour	Orange
Dimensional characteristics	
Conductor cross-section (AWG/KCMIL)	23
Nominal outer diameter (mm)	6.2 mm
Diameter over insulation	1.02 mm
Electrical characteristics	
Max. DC resistance of the conductor at 20°C	85 Ohm/km
Mutual capacitance	56 nF/km
Characteristic impedance	100 Ohm
Mechanical characteristics	
Maximum operating pulling force	100 N
Transmission characteristics	
Propagation delay, max. 100 MHz	536 ns/100m
Nominal Velocity of Propagation (NVP)	67 %
Skew	45 ns/100m
Coupling attenuation at 30 MHz	45 dB
Attenuation Crosstalk Ratio, 250MHz	5.5 dB/100m
Usage characteristics	
Packaging	Reel
Operating temperature, range	-20...60 °C
Minimum Bend Radius - During Installation (under Tension)	50 mm
Minimum Bend Radius - Installed	25 mm
Smoke density	IEC 61034
Ambient installation temperature, range	-10...60 °C

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Category	Cat. 6
Range	LANmark-6
Fire retardant	EN IEC 60332-3-22 (cat A)
Flame retardant	IEC 60332-1

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