LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Cca s1a d1 a1 Orange 500m reel

Aginode Ref.: N100.605-OC

- · Compliant with all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz
- Enhanced reaction-to-fire performance according to CPR classification Ccas1a,d1,a1 (h/EN50575:2014+A1:2016)

DESCRIPTION

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 U/UTP cables have a central cross element which helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.

EuroClass Dca and Eca versions are also available.

Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Aginode 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

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.



Ambient installation T°C range



Operating temp



Flame retardant



IEC 60332-3



IFC 61034



You may see a combination of brands on documents or products during the transition.

DECLARATION OF PERFORMANCE

Cca-s1a,d1,a1

STANDARDS

International EN 50173-1; EN 50288; IEC 60332-3; IEC 61156-5; ISO/IEC 11801

National ANSI/TIA-568-C.2

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.







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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.



Ambient installation T°C range Operating temp.



-20 ... 60 °C



Flame retardant IEC 60332-1

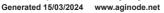


Fire retardant IEC 60332-3



IEC 61034

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CHARACTERISTICS

Construction characteristics	
Type of cable	U/UTP
Outer sheath	LSZH
Colour	Orange
Screen	Unshielded
Dimensional characteristics	
Minimum outer diameter	- mm
Maximum outer diameter	- mm
Diameter over insulation	1.02 mm
Conductor cross-section (AWG/KCMIL)	23
Approximate weight	46 kg/km
Nominal outer diameter	6.5 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	45 dB
Nominal Velocity of Propagation (NVP)	68 %
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)	52 mm
Minimum Bend Radius - Installed	26 mm
Ambient installation temperature, range	-10 60 °C
Operating temperature, range	-20 60 °C
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3
Smoke density	IEC 61034
Length	500 m
Packaging	Reel
Field of application	Indoor







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ELECTRICAL PERFORMANCE LANMARK-6 U/UTP CABLE

	_	_	_	_		_			_			
	IL		NE	XT	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



