LANmark-6 U/UTP Cable GB 31247 B1

LANMARK-6 U/UTP AWG23 CAT 6 350MHZ LSZH GB 31247 B1 (D0,T0,A1) ORANGE 305M REEL

Aginode Ref: N100.604-GB1

- Compliant with all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz
- GB 31247 B1 (d0,t0,a1)compliance



STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
EN 50288
GB 31247
IEC 61156-5
ISO/IEC 11801

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.

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.

The cables Jacket is Orange LSZH sheath. It has flame retardant properties compliant with IEC 60332-1 and also

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compliant with Chinese bundle flame test Class B1 according to GB 31247 B1.

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.

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 U/UTP 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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LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH GB 31247 B1 (d0,t0,a1) Orange 305m reel

Eigenschaften

Konstruktionsmerkmale	
Farbe	Orange
Schirm	Unshielded
Außenmantel	LSZH
Kabeltype	U/UTP
Abmessungsmerkmale	
Anzahl Paare	4
Abmessung (AWG)	23
Durchmesser über Isolierung	1.02 mm
Außendurchmesser, nom.	6.4 mm
Elektrische Eigenschaften	
Betriebskapazität	56 nF/km
Wellenwiderstand	100 Ohm
Max. Gleichstromwiderstand des Leiters bei 20° C	93.8 Ohm/km
Mechanische Eigenschaften	
Max. Betriebszugkraft	100 N
Übertragungseigenschaften	
Laufzeitdifferenz	45 ns/100m
Phasenlaufzeit, max. 100 MHz	536 ns/100m
Anwendungsmerkmale	
Bereich	LANmark-6
Einsatzbereich	Innenraum
Länge	305 m
Betriebstemperatur	-20...60 °C
Kategorie	Cat. 6
Verpackung	Reel
Umgebungstemperatur bei Verlegung, Bereich	-10...60 °C
Minimaler Biegeradius - Während der Installation (unter Spannung)	52 mm

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Minimaler Biegerradius - Installiert	26 mm

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