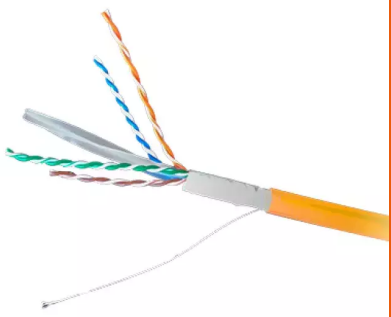
LANmark-6A Cable GB 31247 B1

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



Aginode Ref: N100.638G-GB1

- Ideal cable for 10GBase-T application
- Full compliance to latest standards for Category 6A and Class EA
- Guaranteed performance up to 500MHz
- Special noise control barrier ensured Alien Crosstalk immunity
- GB 31247 B1-(d0,t0.a1) compliance

Application

LANmark-6A cables are the ideal solution for a 10G Ethernet network. The range has been designed specifically to support the higher frequencies required for 10 Gigabit Ethernet, while maintaining full backwards compatibility with today's needs. All LANmark-6A UTP cable can pass in Alien Crosstalk and other external interferences.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- future Cat 6A and Class EA applications

STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
EN 50288-4-1
GB 31247
IEC 61156-5
ISO/IEC 11801

Performance

With guaranteed performance to 500MHz, Aginode LANmark-6A 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.

When used in combination with Aginode LANmark-6A UTP connectors and LANmark-6A UTP patch cords, the system supports the 10GBase-T applications as defined in IEEE 802.3an and meets or exceeds the link and channel requirements for Category 6A and Class EA as defined in TIA/EIA 568-C.2 and ISO/IEC 11801.

Installation

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the

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cable’s print legend.

Guarantees

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

Installations with LANmark-6A 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-6A Cable (International)

Freq	Attn		NEXT		PSNEXT		ACR-F		PS ACR-F		PS ANEXT		PS AACR-F		RL	
	in dB		in dB		in dB		in dB		in dB		in dB		in dB		in dB	
in MHz	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1	2,1	2,1	74,3	79,3	72,3	77,3	67,8	87,8	64,8	84,8	67,0	90,0	67,0	76,7	20,0	26,0
4	3,8	3,8	65,3	70,3	63,3	68,3	55,8	75,8	52,8	72,8	67,0	90,0	66,2	75,9	23,0	29,0
10	5,9	5,9	59,3	64,3	57,3	62,3	47,8	67,8	44,8	64,8	67,0	87,0	58,2	67,9	25,0	31,0
16	7,5	7,5	56,2	61,2	54,2	59,2	43,7	63,7	40,7	60,7	67,0	85,0	54,1	63,8	25,0	31,0
20	8,4	8,4	54,8	59,8	52,8	57,8	41,8	61,8	38,8	58,8	67,0	84,0	52,2	61,9	25,0	31,0
31,25	10,5	10,5	51,9	56,9	49,9	54,9	37,9	57,9	34,9	54,9	67,0	82,1	48,3	58,0	23,6	29,6
62,5	15,0	15,0	47,4	52,4	45,4	50,4	31,9	51,9	28,9	48,9	65,6	79,0	42,3	52,0	21,5	27,5
100	19,1	19,1	44,3	49,3	42,3	47,3	27,8	47,8	24,8	44,8	62,5	77,0	38,2	47,9	20,1	26,1
155	24,1	24,1	41,4	46,4	39,4	44,4	24,0	44,0	21,0	41,0	59,6	74,1	34,4	44,1	18,8	24,8
200	27,6	27,6	39,8	44,8	37,8	42,8	21,8	41,8	18,8	38,8	58,0	72,5	32,2	41,9	18,0	24,0
250	31,1	31,1	38,3	43,3	36,3	41,3	19,8	39,8	16,8	36,8	56,5	71,0	30,2	39,9	17,3	23,3
300	34,3	34,3	37,1	40,1	35,1	38,1	18,3	38,3	15,3	35,3	55,3	69,8	28,7	38,4	16,8	22,8
500	45,3	45,3	33,8	36,8	31,8	34,8	13,8	33,8	10,8	30,8	52,0	66,5	24,2	33,9	15,2	21,2

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

Characteristics

Construction characteristics	
Colour	Orange
Outer sheath	LSZH
Type of cable	U/UTP
Dimensional characteristics	
Conductor cross-section (AWG/KCMIL)	23
Diameter over insulation	1.12 mm
Nominal outer diameter (mm)	7.4 mm
Electrical characteristics	
Mutual capacitance	56 nF/km
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	93.8 Ohm/km
Mechanical characteristics	
Maximum operating pulling force	100 N
Transmission characteristics	
Skew	45 ns/100m
Propagation delay, max. 100 MHz	536 ns/100m
Usage characteristics	
Range	LANmark-6A
Operating temperature, range	-20...60 °C
Category	Cat. 6A
Packaging	Reel
Ambient installation temperature, range	-10...60 °C
Minimum Bend Radius - During Installation (under Tension)	60 mm
Minimum Bend Radius - Installed	30 mm

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