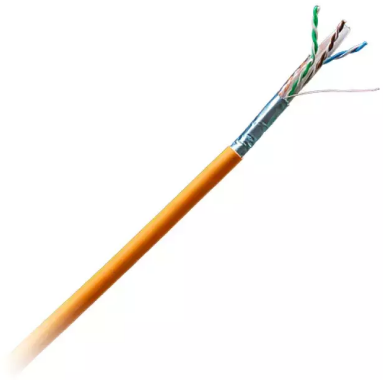
LANmark-6A Cable GB 31247 B1

LANMARK-6A F/UTP AWG23 CAT 6A LSZH GB 31247 B1 (D0,T0,A1) ORANGE 500M REEL



Aginode Ref: N100.672G-GB1

- Ideal cable for 10GBase-T application
- Full compliance to latest standards for Category 6A and Class EA
- Guaranteed performance up to 500MHz
- Global screen offering 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 cables are shielded, in order to ensure immunity to 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 Evo connectors and LANmark-6A Ultim 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

The LANmark-6A cables have the advantage of offering equal dimensions and flexibility as the equivalent LANmark-6

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.

screened cables with the same ease of installation and termination.

The LANmark-6A F/UTP cable has a shielded construction featuring a global foil around the 4 pairs. For bonding purposes, the foil should be folded back so that the aluminium side faces outwards, in order to establish contact with the EMC rear cover of the LANmark connector, providing continuity of the shielding throughout the entire link.

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

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 in dB		NEXT in dB		PSNEXT in dB		ACR-F in dB		PS ACR-F in dB		PS ANEXT in dB		PS AACR-F in dB		RL 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

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.

LANmark-6A F/UTP AWG23 Cat 6A LSZH GB 31247 B1 (d0,t0,a1) Orange 500m reel

Caractéristiques

Caractéristiques de construction	
Gaine extérieure	Faible dégagement de fumée et sans halogène
Type de câble	F/UTP
Couleur	Orange
Caractéristiques dimensionnelles	
Section AWG du conducteur	AWG 23
Diamètre externe nominal (mm)	7.4 mm
Diamètre sur isolation	1.12 mm
Caractéristiques électriques	
Résistance ohmique max. du conducteur à 20°C	93.8 Ohm/km
Capacité effective	56 nF/km
Impédance caractéristique	100 Ohm
Caractéristiques mécaniques	
Maximum operating pulling force	100 N
Caractéristiques de transmission	
Retard de propagation maximal à 100 MHz	536 ns/100m
Distorsion	45 ns/100m
Caractéristiques d'utilisation	
Conditionnement	Reel
Température ambiante d'utilisation, plage	-20...60 °C
Minimum Bend Radius - During Installation (under Tension)	60 mm
Rayon de courbure minimum - installé	30 mm
Température ambiante lors de l'installation, plage	-10...60 °C
Catégorie	Cat. 6A
Gamme	LANmark-6A

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.