LANmark-10G Cable

LANMARK-10G U/FTP AWG23 CAT 6A LSZH DCA S2 D2 A1 ORANGE 500M REEL

Aginode Ref: N10G.UF4-OD

- Ideal cable for 10GBase-T application
- Full compliance to latest standards for Category 6A and Class EA
- Guaranteed performance up to 500MHz
- Individual pair shielding offering Alien Crosstalk immunity



STANDARDS

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

Application

LANmark-10G 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. LANmark-10G cables have individual pair shielding, 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
- 155 Mbit ATM
- 1.2 Gbit ATM
- future Cat 6A and Class EA applications
- PoE++ Type 4 (IEEE 802.3bt)

Performance

With guaranteed performance to 500MHz, Aginode LANmark-10G cables meet 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-10G connectors and LANmark-10G patch cords, the system supports the 10GBase-T applications as defined in IEEE 802.3an and meets the link and channel requirements for Category 6A and Class EA as defined in TIA/EIA 568-C.2 and ISO/IEC 11801.

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.

Installation

The LANmark-10G cables have the advantage of offering equal dimensions and flexibility as the equivalent LANmark-6 screened cables with the same ease of installation and termination.

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-10G cable and connectivity are qualified for a 25 year Aginode Link Warranty Certificate.

Electrical Performance LANmark-10G Cable

Freq in MHz	Attn in dB Max.	NEXT in dB Min.	PSNEXT in dB Min.	ACR-F in dB Min.	PS ACR-F in dB Min.	PS ANEXT in dB Min.	PS AACR-F in dB Min.	RL in dB Min.
1	2,1	74,3	72,3	67,8	64,8	67,0	67,0	20,0
4	3,8	65,3	63,3	55,8	52,8	67,0	66,2	23,0
10	5,9	59,3	57,3	47,8	44,8	67,0	58,2	25,0
16	7,5	56,2	54,2	43,7	40,7	67,0	54,1	25,0
20	8,4	54,8	52,8	41,8	38,8	67,0	52,2	25,0
31,25	10,5	51,9	49,9	37,9	34,9	67,0	48,3	23,6
62,5	15,0	47,4	45,4	31,9	28,9	65,6	42,3	21,5
100	19,1	44,3	42,3	27,8	24,8	62,5	38,2	20,1
155	24,1	41,4	39,4	24,0	21,0	59,6	34,4	18,8
200	27,6	39,8	37,8	21,8	18,8	58,0	32,2	18,0
250	31,1	38,3	36,3	19,8	16,8	56,5	30,2	17,3
300	34,3	37,1	35,1	18,3	15,3	55,3	28,7	16,8
500	45,3	33,8	31,8	13,8	10,8	52,0	24,2	15,2

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LANmark-10G U/FTP AWG23 Cat 6A LSZH Dca s2 d2 a1 Orange 500m reel

Characteristics

Construction characteristics	
Colour	Orange
Outer sheath	LSZH
Type of cable	U/FTP
Dimensional characteristics	
Approximate weight	49 kg/km
Conductor cross-section (AWG/KCMIL)	23
Diameter over insulation	1.32 mm
Nominal outer diameter (mm)	7.0 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	80 Ohm/km
Max. transfer impedance at 30 MHz (Ohm/km)	120 Ohm/km
Mutual capacitance	45 nF/km
Mechanical characteristics	
Maximum operating pulling force	100 N
Transmission characteristics	
Attenuation Crosstalk Ratio, 250MHz	25 dB/100m
Coupling attenuation at 30 MHz	>70 dB
Nominal Velocity of Propagation (NVP)	82 %
Propagation delay, max. 100 MHz	536 ns/100m
Skew	30 ns/100m
Usage characteristics	
Ambient installation temperature, range	0...50 °C
Category	Cat. 6A
Flame retardant	IEC 60332-1

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Gases corrosivity	IEC 60754-1; IEC 60754-2
Length	500 m
Minimum Bend Radius - During Installation (under Tension)	56 mm
Minimum Bend Radius - Installed	28 mm
Operating temperature, range	-20...60 °C
Packaging	Reel
Range	LANmark-10G
Smoke density	IEC 61034

Documentation

Freetable LM6A UFTP V2.xls xls — 23.5 KB Download

Declaration of Performance

LANmark-10G U/FTP AWG23 Cat 6A LSZH Dca s2 d2 a1 Orange 500m reel pdf — 140.96 KB Download

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