LANmark-6A Slimflex Uniboot Patch Cords

LANMARK-6A SLIMFLEX PATCH CORD S/FTP CAT 6A RJ45 LSZH WHITE 5M

Aginode Ref: N1SA.P1H050WK

- 44% Space Saving with reduced outer diameter cable
- Slim & Flexible to be used in dense Patching Zones for Enterprise and Datacentres or Meeting Rooms
- High speed RJ45 patch cord to run 10GBase-T and future Cat6A applications
- Individually screened pairs for reduced Internal Crosstalk and Alien Crosstalk immunity
- Up to 2 x 3m cords can be added to 90m links
- Retrofit Latch Protector available in 8 colours for colour coding



STANDARDS

ANSI/TIA 568.2-D
EN 50173-1
IEEE 802.3an
ISO/IEC 11801
ISO/IEC TR24750
TIA/EIA TSB-155

Application

LANmark-6A Slimflex cords are designed to support 10 Gigabit Ethernet and other Class EA applications in high density environments. They are specified to 500MHz and are matched with LANmark-6A cable and connectors to provide full Class EA Channel configurations.

Due to their thin AWG30 stranded conductors and small outer diameter of only 4.5mm Slimflex cords offer increased flexibility and can save up to 44% space compared to regular Category 6A patch cords.

Equipped with a slim but robust boot with long latch protector, Slimflex cords support high density patching whilst facilitating easy cord removal. The prefitted black latch protector is removable and can be replaced with a coloured version, allowing colour coding of different services or applications.

Performance

LANmark-6A Slimflex cords, in conjunction with LANmark-6A cable and connectors, support all Class EA Channel configurations, as specified in TIA-568.2-D and ISO 11801, up to a total channel length of 96m, with 90m horizontal cable and max. 3m cords at either end.

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.

Longer lengths of Slimflex cords can be supported, if the horizontal cable length is reduced according to an insertion loss ratio of 2.5, with a maximum combined length of 15m Slimflex cords.

Guarantees

When installed in combination with LANmark-6A cable and connectors, a 25 years Channel warranty can be obtained, covering full 10GBase-T support and Class EA compliance.

Usage

- Outer jacket is LSZH, standard colour is White. Other colours are available on request.
- Standard lengths are 1, 2, 3 and 5m. Other lengths are available on request.
- Up to 3m Slimflex cords at either end will support full Class EA Channel performance. Up to 15m combined length of Slimflex cords can be supported in Channel configurations when reducing the horizontal cable length according to a 2.5 derating factor. Details on supported length configurations can be found in our LANmark-6A Design Guidelines.

Electrical Performance LANmark-6A 4 Connector Channel

NEXT in dB		PSNEXT in dB			ACR-F in dB	
Min	Typ	Std	Min	Typ	Std	Typ
67,0	85,0	62,0	64,0	74,8	63,3	69,9
65,0	72,9	60,5	62,5	65,0	51,2	57,9
58,6	65,0	54,0	56,0	58,5	43,3	49,9
55,2	60,9	50,6	52,6	55,1	39,2	45,9
53,6	59,0	49,0	51,0	53,5	37,2	43,9
50,4	55,1	45,7	47,7	50,2	33,4	40,0
45,4	49,1	40,6	42,6	45,1	27,3	34,0
41,9	45,0	37,1	39,1	41,6	23,3	29,9
38,7	41,2	33,8	35,8	38,3	19,5	26,1
36,8	39,0	31,9	33,9	36,4	17,2	23,9
35,1	37,0	30,2	32,2	34,7	15,3	22,0
33,7	35,4	28,8	30,8	33,3	13,7	20,4
29,9	31,0	24,8	26,8	24,9	9,3	16,0

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Freq in MHz	PS ACR-F in dB		PS ANEXT in dB			PS AACR-F in dB			RL in dB		
	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60,3	66,9	80,0	90,0	92,0	77,0	92,0	94,0	19,0	21,0	21,0
4	48,2	54,9	74,0	89,0	91,0	65,0	80,0	82,0	19,0	21,0	32,0
10	40,3	46,9	70,0	85,0	87,0	57,0	72,0	74,0	19,0	21,0	28,0
16	36,2	42,9	68,0	83,0	85,0	52,9	67,9	69,9	18,0	20,0	26,0
20	34,2	40,9	67,0	82,0	84,0	51,0	66,0	68,0	17,5	19,5	25,0
31,25	30,4	37,0	65,1	80,1	82,1	47,1	62,1	64,1	16,5	18,5	23,1
62,5	24,3	31,0	62,0	77,0	79,0	41,1	56,1	58,1	14,0	16,0	20,0
100	20,3	26,9	60,0	75,0	77,0	37,0	52,0	54,0	12,0	14,0	18,0
155	16,5	23,1	57,1	72,1	74,1	33,2	48,2	50,2	10,1	12,1	16,1
200	14,2	20,9	55,5	70,5	72,5	31,0	46,0	48,0	9,0	11,0	15,0
250	12,3	19,0	54,0	69,0	71,0	29,0	44,0	46,0	8,0	10,0	14,0
300	10,7	17,4	52,8	67,8	69,8	27,5	42,5	44,5	7,2	9,2	13,2
500	6,3	13,0	49,5	64,5	66,5	23,0	38,0	40,0	6,0	8,0	11,0

All values are based on Worst Case 4 Connector Channel configurations according to ISO11801.
Minimum and maximum values represent guaranteed Channel performance.
Standard values based on ISO11801 Class EA

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Characteristics

Construction characteristics	
Colour	White
Screen	Yes
Outer sheath	LSZH-FR
Dimensional characteristics	
Conductor cross-section (AWG/KCMIL)	30
Nominal outer diameter (mm)	4.5 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Conductor electrical resistance	38.1 Ohm/km
Usage characteristics	
Range	LANmark-6A
Field of application	Indoor
Length	5 m
Category	Cat. 6A
Flame retardant	IEC 60332-1
Component function	Patchcord
Mechanical durability/matings	750

Documentation

Freetable LM6A Channel V2 Part 1_1.xls xls — 20.5 KB Download

Freetable LM6A Channel V2 Part 2_1_1.xls xls — 24.5 KB Download

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