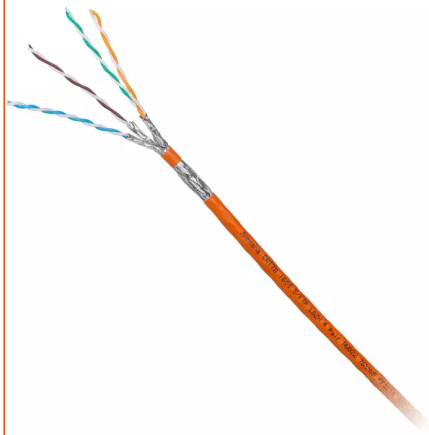
LANmark-7A Cable

LANMARK-7A 1600 S/FTP AWG22 CAT 7A 1600MHZ LSZH B2CA S1A D1 A1 ORANGE 1000M REEL





Aginode Ref: N100.381-OB

- Exceeds Category 7A in terms of ACR and Frequency Range
- Suitable for channels with capacity above 25GBps
- AWG22 Wire Size
- Positive Attenuation to Crosstalk Ratio up to 1600MHz
- Optimised for use with LANmark-7A GG45 connector
- Easy to install with Cat 7A connectivity through special foil construction
- Superior reaction-to-fire performance according to CPR classification B2ca-s1a,d1,a1 (h/EN50575:2014+A1:2016)

Description

LANmark-7A are 4 pair S/FTP cables with individual pair foils and an overall braid offering upper frequencies of at least 1250MHz but up to 1600MHz. All cables are fully compliant with Category 7A standard and offer even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR all cables supports applications beyond 10GBASE-T, including 25GBASE-T.

Application

LANmark-7A is the highest performing standardised cabling solution in the enterprise market and will support all current data applications and all planned applications using cabling up to Class FA.

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T up to 30m
- POE, POE+, POE++ (Draft)
- Cable sharing applications including CATV up to 862MHz
- Any future Class FA application

Installation

STANDARDS

EN 50173
EN 50288-4-1
IEEE 802.3bt (PoE++)
ISO/IEC 11801
ISO/IEC 61156-5

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Ease of Installation is one of the main features of the LANmark-7A cable. Extra attention has been paid to ensure that the screen coverage is maintained and foils do not open during installation. The cable has been specially designed to be used in conjunction with the LANmark-7A GG45 12C connector.

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.

Electrical Performance LANmark-7A 1600 Cable

Frequency (in MHz)	Attenuation (dB/100m)		NEXT (in dB)		ACR (in dB)		PS-ANEXT (in dB)		ACR-F (in dB)		TCL (in dB)		Return Loss (in dB)	
	Max.	Typical	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1,00	2,1	1,9	75,0	105,0	72,9	103,1	80,0	87,5	88,0	83,0	40,0	43,0	20,0	30,0
4,00	3,7	3,5	75,0	105,0	71,3	101,5	80,0	87,5	88,0	83,0	34,0	37,0	23,0	33,0
10,00	5,8	5,4	75,0	105,0	69,2	99,6	80,0	87,5	88,0	83,0	30,0	33,0	25,0	34,0
16,00	7,3	6,8	75,0	105,0	67,7	98,2	80,0	87,5	88,0	83,0	28,0	31,0	25,0	34,0
20,00	8,2	7,6	75,0	105,0	66,8	97,4	80,0	87,5	88,0	83,0	27,0	30,0	25,0	34,0
31,25	10,3	9,5	75,0	105,0	64,7	95,5	80,0	87,5	88,0	83,0	25,1	28,1	23,7	32,7
62,50	14,6	13,4	75,0	105,0	60,4	91,6	80,0	87,5	88,0	83,0	22,1	25,1	21,6	30,6
100,00	18,5	17,1	75,0	102,4	56,5	85,4	80,0	87,5	85,3	80,3	20,0	23,0	20,1	29,1
155,00	23,2	21,3	72,5	97,6	49,3	76,3	80,0	87,5	80,5	75,5	18,1	21,1	18,8	27,8
300,00	32,7	29,9	68,2	90,5	35,6	60,6	80,0	87,5	73,4	68,4	15,2	18,2	17,3	26,3
600,00	47,1	42,7	63,7	82,9	16,6	40,3	75,8	83,3	65,8	60,8	12,2	15,2	17,3	26,3
800,00	54,9	49,6	61,9	79,8	6,9	30,2	74,0	81,5	62,7	57,7	11,0	14,0	16,1	23,6
1000,00	61,9	55,7	60,4	77,4	-1,5	21,7	72,5	80,0	60,3	55,3	10,0	13,0	15,1	21,9
1200,00	68,4	61,3	59,2	75,4	-9,1	14,1	71,3	78,8	58,3	53,3	9,2	12,2	14,3	20,3
1500,00	77,2	69,0	57,8	73,0	-19,5	4,0	69,9	77,4	55,9	50,9	8,2	11,2	13,3	18,3
1600,00	80,0	71,4	57,3	72,3	-22,7	0,9	69,4	76,9	55,2	50,2	8,0	11,0	13,0	17,8

Internal Description	UK MRO 130903 Electrical Performance LM7A 1600
Title	Electrical Performance LANmark-7A 1600 Cable
Description	Typical Electrical Performance LANmark-7A 1600 Cable Maximum/Minimum requirements according to IEC61156-9 NP Draft 2013
Comment	

Squared	☑
Table width	100
Centered	☐
Use small font for PDF	☐
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LANmark-7A 1600 S/FTP AWG22 Cat 7A 1600MHz LSZH B2ca s1a d1 a1 Orange 1000m reel

Characteristics

구조적 특성	
Drain wire	없음
Lead free	Yes
피복	저연 할로겐 프리
스크린	알루미늄 호일 + 주석 도금 구리 브레이드
Sheath colour	주황색
Type of cable	S/FTP
치수	
무게(근사치)	78 kg/km
Conductor cross-section (AWG/KCMIL)	22
Diameter over insulation	1.53 mm
Nominal outer diameter (mm)	8.3 mm
Number of pairs	4
전기적 특성	
Characteristic impedance	100 Ohm
20° C에서 최대 도체 DC저항	85 Ohm/km
Max. transfer impedance at 30 MHz (Ohm/km)	50 Ohm/km
Mutual capacitance	45 nF/km
기계적 특성	
Maximum operating pulling force	100 N
Transmission characteristics	
Coupling attenuation at 30 MHz	>85 dB
Nominal Velocity of Propagation (NVP)	76 %
Propagation delay, max. 100 MHz	536 ns/100m
Skew	25 ns/100m
사용 특성	

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Ambient installation temperature, range	0...50 °C
Category	Cat. 7A
Fire retardant	IEC 60332-3-24 (cat C)
난연	IEC 60332-1
Gases corrosivity	IEC 60754-1; IEC 60754-2
Length	1000 m
최소 굽힘 반지름 - 설치시 (장력작용)	69 mm
최소 굽힘 반지름 - 설치 후	34 mm
操作温度范围	-20...60 °C
Packaging	Reel
Range	LANmark-7A
연기밀도	IEC 61034-2

문서

Freetable LM7A 1600.xls xls — 35 KB 다운로드

성과 선언

LANmark-7A 1600 S/FTP AWG22 Cat 7A 1600MHz LSZH B2ca s1a d1 a1 Orange 1000m reel pdf — 141.38 KB 다운로드

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