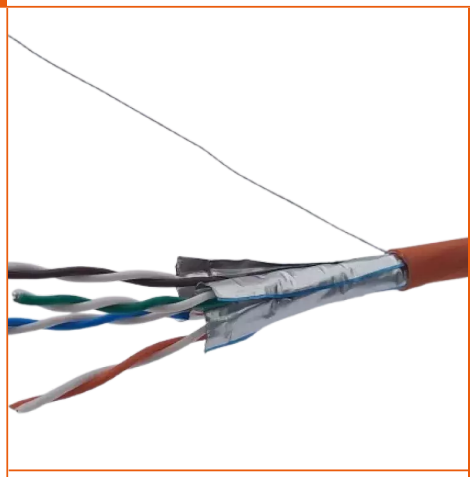
LANmark-6A ULTIM-Kabel

LANMARK-6A ULTIM EXTP AWG22 CAT 6A 650MHZ LSZH CCA S1A D2 A1 ORANGE 500M REEL





Aginode Ref: N100.964G-OC

- Extended Twisted Pair transmission support for Ethernet applications beyond 100m
- AWG22 copper conductors enabling scalability to support future technologies
- Innovative aluminium foil design combining global and individual pair shielding
- Alien Crosstalk immunity
- Facilitates ease of installation
- Full compliance to latest standards for Category 6A and Class EA
- Tested to 650 MHz
- Guaranteed performance up to 500MHz
- Ideal cable for 10GBase-T application
- Enhanced reaction-to-fire performance according to CPR classification Cca-s1a,d2,a1 (h/EN50575:2014+A1:2016)

Application

LANmark-6A ULTIM EXTP cables are the ideal solution for a future proof network. The range has been designed specifically to support Ethernet application transmissions, including PoE, exceeding the 100m channel boundaries of the International, American and European cabling standards.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 2.5GBase-T 2.5 Gigabit Ethernet
- 5GBase-T 5 Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet
- future Cat 6A and Class EA applications
- PoE++ Type 4 (IEEE 802.3bt)

Design

LANmark-6A ULTIM EXTP cable is constructed with AWG22 copper conductors, ensuring excellent PoE transmission up to 90W and allowing Ethernet application support up to 160m Channel distance.

The cable features an ingenious metal foil construction forming a central cross and shaped around each pair, acting as global screen and individual pair shielding at the same time. Compared to traditional U/FTP, F/FTP and S/FTP cables, this

STANDARDS

ANSI/TIA 568.2-D
EN 50173-1
IEC 61156-5
IEEE 802.3bt (PoE++)
ISO/IEC 11801

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clever design allows for quick and effortless cable preparation, whilst offering outstanding electrical performance.

Performance

Tested to 650MHz with guaranteed performance to 500MHz, LANmark-6A ULTIM EXTP cables exceed the requirements of the International, European and American cable standards. When used in combination with LANmark-6A ULTIM connectors and 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 568.2-D and ISO/IEC 11801.

In addition, extended distance can be reached for all Ethernet applications, including 10GBase-T (*)

		LANmark Channel					
		unscreened	screened				
Application drive distance (m)		Cat 6	Cat 6	Cat 6A AWG 23	Cat 6A AWG 22	Cat 7A AWG 23	Cat 7A AWG 22
10BASE-T / Ethernet	without PoE	177	177	177	177	177	177
	with PoE	130	130	145	160	165	177
100BASE-T / Fast Ethernet	without PoE	140	140	145	160	145	160
	with PoE	130	130	145	160	145	160
1000BASE-T / Gigabit Ethernet	without PoE	100	115	145	160	145	160
	with PoE	100	115	145	160	145	160
2.5GBASE-T / 2.5 Gigabit Ethernet	without PoE	100	100	125	135	125	135
	with PoE	100	100	125	135	125	135
5GBASE-T / 5 Gigabit Ethernet	without PoE	100	100	125	135	125	135
	with PoE	100	100	125	135	125	135
10GBASE-T / 10 Gigabit Ethernet	without PoE	N/A	N/A	105	125	105	125
	with PoE	N/A	N/A	100	100	100	100

(*) Distances are in metres and are valid for 2-connector channel configurations, including 5m total cordage.
PoE = Type 4 (IEEE 802.3bt)
Distances are valid at 20°C. For operating temperatures up to 60°C, the length shall be reduced according to ISO/IEC 11801-2

Installation

LANmark-6A EXTP cables offer the same ease of installation as their F/UTP equivalents, enabling removal of the aluminium foil in one go, whilst no plastic cross nor individual pair foils need to be removed.
To support the correct set-up of handheld 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.

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LANmark-6A ULTIM EXTP AWG22 Cat 6A 650MHz LSZH Cca s1a d2 a1 Orange 500m reel

Eigenschaften

Konstruktionsmerkmale	
Farbe	Orange
Außenmantel	LSZH
Kabeltype	U/FTP-F/FTP
Abmessungsmerkmale	
Nettogewicht ca.	73 kg/km
Abmessung (AWG)	22
Durchmesser über Isolierung	1.53 mm
Außendurchmesser, nom.	8.2 mm
Elektrische Eigenschaften	
Wellenwiderstand	100 Ohm
Max. Gleichstromwiderstand des Leiters bei 20° C	60 Ohm/km
Betriebskapazität	45 nF/km
Mechanische Eigenschaften	
Max. Betriebszugkraft	100 N
Übertragungseigenschaften	
Kopplungsdämpfung bei 30 MHz	>70 dB
Ausbreitungsgeschwingigkeit	76 %
Phasenlaufzeit, max. 100 MHz	536 ns/100m
Laufzeitdifferenz	25 ns/100m
Anwendungsmerkmale	
Umgebungstemperatur bei Verlegung, Bereich	-10...60 °C
Kategorie	Cat. 6A
Flammwidrig	IEC 60332-1
Korrosivität der (Brand-)Gase	IEC 60754-1; IEC 60754-2
Minimaler Biegeradius - Während der Installation (unter Spannung)	66 mm
Minimaler Biegerradius - Installiert	33 mm
Betriebstemperatur	-20...60 °C

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Verpackung	Trommel 500m
Bereich	LANmark-6A
Rauchdichte	IEC 61034

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