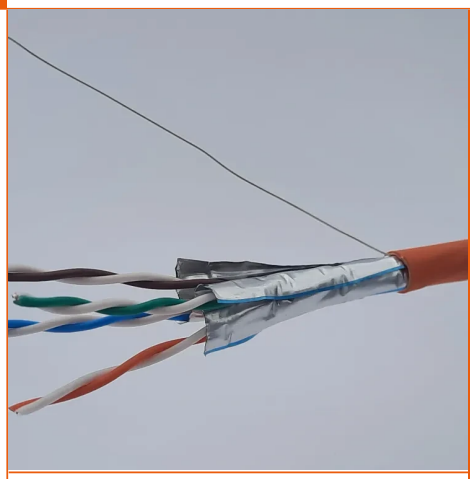
LANmark-6A Cable

LANMARK-6A FXTP AWG23 CAT 6A LSZH DCA S2 D1 A1 ORANGE 500M REEL



Aginode Ref: N100.654G-OD

- Innovative aluminium foil design combining global and individual pair shielding
- Full compliance to latest standards for Category 6A and Class EA
- Guaranteed performance up to 500MHz
- Ideal cable for 10GBase-T application
- Alien Crosstalk immunity

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
- 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 FXTP cables feature 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 F/FTP and S/FTP cables, this clever design facilitates fast and easy cable preparing whilst offering outstanding electrical performance.

Performance

With guaranteed performance to 500MHz, LANmark-6A FXTP cables exceed the requirements of the International, European

STANDARDS

IEC 61156-5
ISO/IEC 11801
EN 50288
EN 50173-1
IEEE 802.3bt (PoE++)
ANSI/TIA 568.2-D

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and American cable standards.
When used in combination with LANmark-6A 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.

Installation

LANmark-6A FXTP cables offer the same ease of installation as their F/UTP equivalents, enabling removal of the aluminium foil in one go, whilst no central cross nor individual pair foils need to be removed.
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.

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LANmark-6A FXTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel

Characteristics

Construction characteristics	
Colour	Orange
Outer sheath	LSZH
Type of cable	FXTP
Dimensional characteristics	
Approximate weight	53 kg/km
Conductor cross-section (AWG/KCMIL)	23
Diameter over insulation	1.32 mm
Nominal outer diameter (mm)	7.3 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	
Coupling attenuation at 30 MHz	>75 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	-10...60 °C
Category	Cat. 6A
Flame retardant	IEC 60332-1
Gases corrosivity	IEC 60754-1; IEC 60754-2

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Length	500 m
Minimum Bend Radius - During Installation (under Tension)	58 mm
Minimum Bend Radius - Installed	29 mm
Operating temperature, range	-20...60 °C
Packaging	Reel
Range	LANmark-6A
Smoke density	IEC 61034

Documentation

Electrical performance LANmark-6A FXTP cable.pdf pdf — 71.71 KB Download

Declaration of Performance

DoP_1000052-FRFU-030_N100_654G_OD_EN.pdf pdf — 258.97 KB Download

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