

2L-29330

300 m HDBaseT 3.0 U/FTP Cat 6A Cable



Engineered to simplify AV / IT integration, the 2L-29330 U/FTP Cat 6A Cable features HDBaseT 3.0 technology to provide uncompressed transmission of up to True 4K video, audio, Ethernet, power, and control signals across 100m with the support for sweep frequencies up to 500 MHz. The cable length of 300m can be tailored to fit your precise needs, adding flexibility for various project requirements. The 2L-29330 is not attached with RJ-45 connector, so it is highly recommended to order ATEN [2A-245G](#) Cat 6A RJ-45 connector individually for better performance.

The 2L-29330 features four individually Al-Mylar tape-shielded pairs of 23 AWG wire, further protected by an overall braid of tinned copper. The shielding provides protection against electromagnetic interference (EMI); the jacket is made of eco-friendly Low Smoke Zero Halogen (LSZH) materials for increased safety, particularly in the event of a fire.

The 2L-29330 works seamlessly with ATEN HDBaseT extenders, splitters, and matrix switches, making it a versatile choice for any AV / IT setup. This cable is perfect for large-scale installations where long-distance, high-quality AV and control signal transmission is crucial, such as conference rooms, lecture halls, banquet halls, museums, and exhibition centers.

The 2L-29330 is engineered for professional environments that demand superior performance over long-distances. Its extended length and advanced shielding ensure that users AV and IT systems operate at peak efficiency, delivering uncompressed True 4K signals without interference.



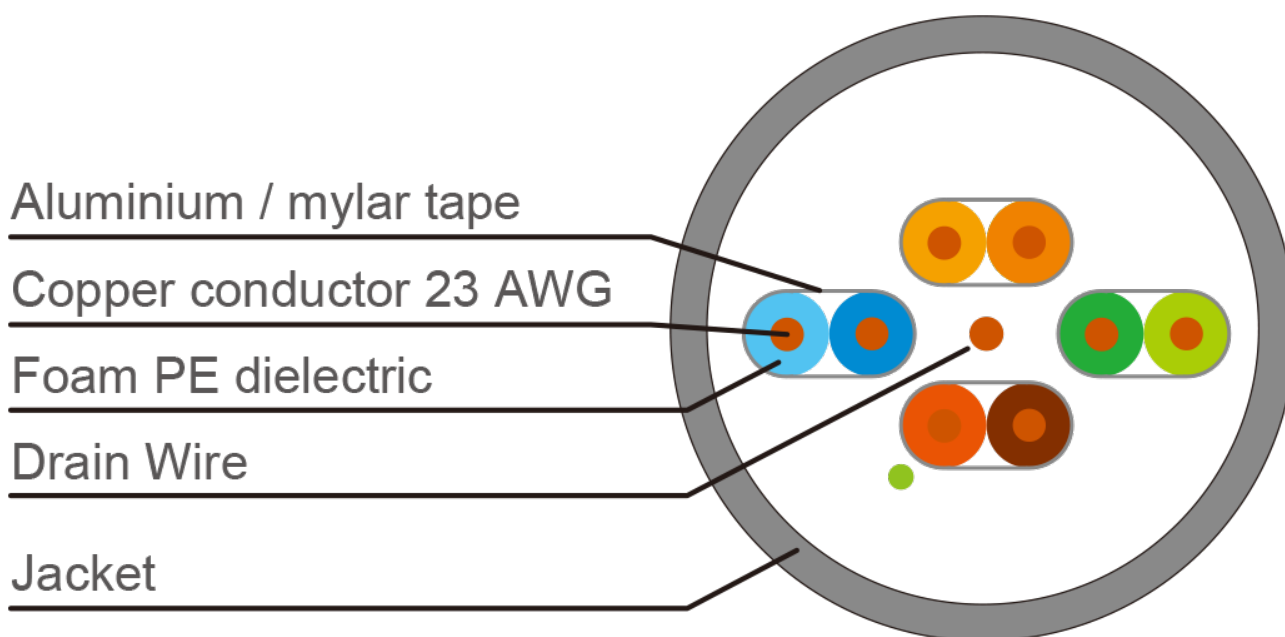
Features

- Meets HDBaseT 3.0 standard for uncompressed multi-signal transmission up to 16 Gbit/s bandwidth, including True 4K video, audio, Ethernet, power, and control
- The length of a reel of 2L-29330 is 300 m – tailored to specific lengths up to 100 m based on practical usage
- Resistant to electromagnetic interference (EMI) and radio frequency interference (RFI) brought by walkie-talkies or any other radio devices to prevent AV signal disturbance
- Conductor material: 23 AWG solid bare copper
- Tested transmission up to 500 MHz, according to ISO 11801 class EA, ANSI/TIA-568.2-D, and IEC 60332-1 standards
- Outer shielded material: Al Mylar tape and braid
- Low Smoke Zero Halogen (LSZH) copper cable – eco-friendly material design for better safety
- Compatible with ATEN's HDBaseT extenders, splitters, and matrix switches

Specification

Cable Type	Cat 6A U/FTP
Cable Length	300m / 990ft
Conductor	
Size	23AWG
Construction	Individual shielded pair
Material	Solid plain annealed bare copper wire
Number of Pairs	4 twisted pairs, 2 single conductors paired
Insulation	
Material	Foamed PE , 1.46 +/- 0.1mm
Color codes	Twisted pair color code: Light Blue / Blue Light Orange / Orange Light Green / Green Light Brown / Brown
Binder	
Material	Polyester
Shield	
Material	A layer of aluminum-foil laminated tape
Drain Wire	
Construction	26AWG
Jacketed	
Material	LSZH (Low Smoke Zero Halogen)
Diameter	7.2+/-0.5 mm
Color	Gray
Electrical	
DC Resistance	9.38 Ω (max.) / 100m at 20 °C
Propagation Delay	535.6ns (max.) / 100m at 500Mhz
Propagation Delay Skew	45ns Max./100m
Insertion Loss	45.3 dB (max.) / 100m at 500Mhz
Impedance	100+/-15 Ω
Environmental	
Temperature (Operating / Storage)	-20°C to 60°C
Physical Properties	
Weight	17.00 kg (37.44 lb)
Standard Support	ANSI/TIA-568.2-D HDBaseT 3.0 Premium cable

Diagram

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