

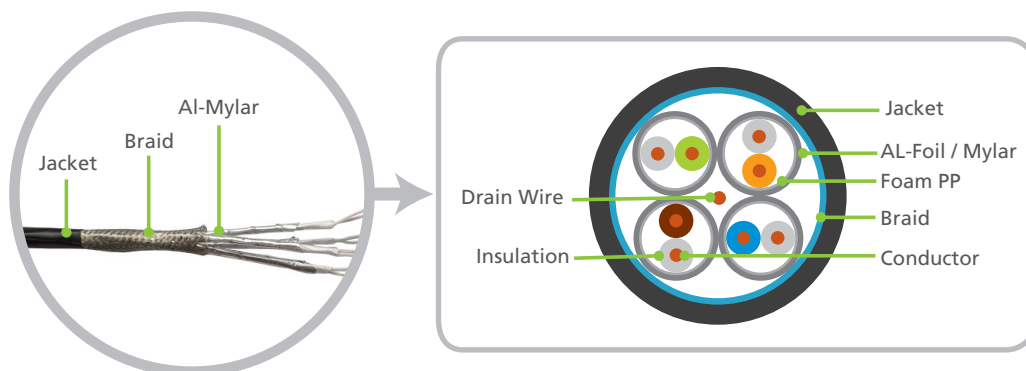
100M HDBaseT™ S/FTP Cat 6A Cable

2L-2920

Engineered to simplify AV / IT integration, the 2L-2920 S/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 100 m with the support for sweep frequency up to 500 MHz. In order to lower the interference from external sources and protect the signal integrity, this PVC jacketed cable consists of four individually Al-Mylar tape shielded pairs of 23 AWG wire, which are overall braided with tinned copper, delivering excellent protection against electromagnetic interference (EMI) brought by walkie-talkies or any other radio devices. Cross talk is eliminated as a result of the foamed PO insulation separating the individual stranded pair sets from each other. Compatible with ATEN HDBaseT extenders, splitters, and matrix switches, the 2L-2920 is perfect for scenarios where uncompressed True 4K AV and control signal transmission over a long distance is needed, such as conference rooms, lecture halls, banquet halls, museums and exhibition centers.



Note: The cable is attached with RJ-45 jacks by manufacturing default. Warranty void if the cable is cut or re-wired with RJ-45 jacks.



Features

- Meets HDBaseT 3.0 standard for uncompressed multi-signal transmission across 100 m, including True 4K video, audio, Ethernet, power and control
- Supports sweep frequency up to 500 MHz
- Conductor material: 23 AWG solid bare copper
- Outer shielded material: Al Mylar tape and braid
- Braid wire: tinned copper
- Compatible with ATEN HDBaseT extenders, splitters, and matrix switches
- Resistant to electromagnetic interference (EMI) / radio frequency interference (RFI) brought by walkie-talkies or any other radio devices to prevent AV signal from disturbance.

Electrical Performance

Frequency (MHz)	Attenuation Max. dB / 100 m	NEXT Min. dB	Return Loss Min. dB	ACR-N Min. dB	ACR-F Min. dB	PS-NEXT Min. dB	PS ACR-N Min. dB	PS ACR-F Min. dB
1	2.3	75.3	20.0	73.0	69.2	72.3	70.0	66.2
4	4.0	66.3	22.0	71.5	57.1	64.0	69.3	54.1
8	5.2	62.4	22.0	65.5	51.1	60.0	63.2	48.1
10	5.9	59.8	22.0	63.3	49.2	57.5	61.0	46.2
16	7.6	56.6	21.0	58.6	45.1	54.2	56.2	42.1
20	8.5	55.1	20.5	56.2	43.2	52.7	53.8	40.2
25	9.7	53.5	20.0	53.8	41.2	51.1	51.4	38.2
31.25	10.6	52.0	20.0	51.2	39.3	49.5	48.7	36.3
62.5	15.1	48.1	18.5	42.1	33.3	45.7	39.6	30.3
100	18.0	45.8	16.0	34.9	29.2	43.3	32.3	26.2
200	25.8	40.9	16.0	21.8	23.2	38.3	19.2	20.2
250	29.1	40.3	14.0	16.8	21.2	37.7	14.2	18.2
350	33.8	36.8	14.0	11.8	18.3	34.1	9.1	15.3
450	37.8	33.2	12.0	6.8	16.1	30.3	4.0	13.1
500	39.0	31.7	12.0	6.8	15.2	28.8	3.9	12.2

Specifications

2L-2920	
Cable Type	Cat 6A S/FTP
Cable Length	100 m / 330 ft
Conductor	
Size	23 AWG
Construction	Individual Shielded Pair
Material	Solid Bare Copper
Number of Pairs	4 Pairs
Insulation	
Material	Foamed Polyolefin
Color Codes	Blue & White / Blue stripe 1.25 ± 0.1 mm Orange & White / Orange stripe 1.25 ± 0.1 mm Green & White / Green stripe 1.25 ± 0.1 mm Brown & White / Brown stripe 1.25 ± 0.1 mm
Binder	
Material	Foam-PP
Coverage	110 % Coverage (Overlap 10 % min.)
Shield	
Material	Al Mylar Tape
Coverage	100 % Coverage and Mylar Side Facing Out
Drain Wire	
Construction	24 AWG Tinned Stranded Copper
Braid	
Material	Tinned Copper
Coverage	80 % Coverage
Jacketed	
Material	Polyvinyl Chloride (PVC)
Average Thickness	0.5 mm ± 0.05 mm
Diameter	9.0 mm ± 0.3 mm
Color	Black
Electrical	
DC Resistance	7.3 Ω Max. / 100 m, 23AWG
Propagation Delay	498 ns Max. / 100 m
Propagation Delay Skew	10 ns Max. / 100 m
Insertion Loss	39 dB Max. at 500 Mhz / 100 m
Impedance	100 Ω (nominal)
Environmental	
Operating Temperature	0 – 50 °C
Temperature (Operating / Storage)	-20 – 60 °C
Humidity	0 – 80 % RH, Non-condensing
Physical Properties	
Connector Type	2 x RJ-45 Male (Black), Inner Mold LD-PE
Over Mold	PVC
Weight	11 kg

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