

CAT6A U/FTP - Data Cable



Product Description

23 AWG copper wire insulated with Foam Skin Polyethylene. Two insulated conductors twisted together to form a pair and four such pairs covered by a Aluminum Polyester tape form the core unit, jacketed with flame retardant PVC/LSZH. Enhanced performance cable enables delivering high speed network.

Features

Flame Rating:

PVC-CM

LSZH-IEC 60332-1; IEC 60754 1&2; IEC 61034-2
Excellent RFI/EMI interference attenuation to enable installation in high electrical noise locations.

Specified and tested upto 500MHz

Compliant to ANSI/TIA 568-C.2 Cat6a, ISO/IEC 11801 Class E_A

Product Application

10G BASE-T (IEEE 802.3)

1000 BASE-T (IEEE 802.3ab)

1000 BASE-TX

Data center I/O consolidation

Back Bone aggregation

Consolidation of network interconnects

Parallel processing and High Speed Computing

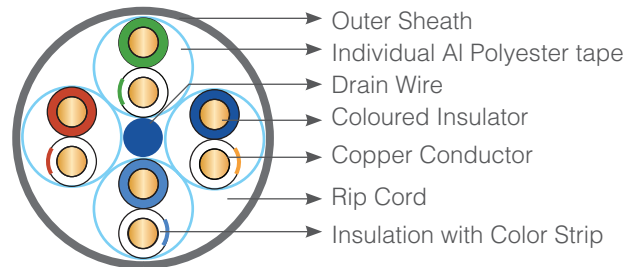
Other Legacy LAN and application Video, BAS

Meets IEEE802.3af & 802.3at PoE

Product Specification

Mechanical & Environmental Characteristics

Characteristic	Specifications
Maximum tensile load	110 N (installation)
Minimum bend radius	8 x cable outer diameter
Temperature	0°C to +50°C (installation) -10°C to +60°C (operation)



Colour Code

Pair	Specifications
1	Blue - White or white with color stripe
2	Orange - White or white with color stripe
3	Green - White or white with color stripe
4	Brown - White or white with color stripe

Jacket Colours

Blue, Grey, Violet or Customer Specific Colours



Datasheet

Transmission/Characteristics - 100m

Frequency (Mhz)	Max attenuation (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
1	2.1	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
10	5.9	25.0	59.3	57.3	47.8	44.8
16	7.5	25.0	56.2	54.2	43.7	40.7
20	8.4	25.0	54.8	52.8	41.8	38.8
31.25	10.5	23.6	51.9	49.9	37.9	34.9
62.5	15	21.5	47.4	45.4	31.9	28.9
100	19.1	20.1	44.3	42.3	27.8	24.8
200	27.6	18.0	39.8	37.8	21.8	18.8
250	31.1	17.3	38.3	36.3	19.8	16.8
300	34.3	16.8	37.1	35.1	18.3	15.3
500	45.3	15.2	33.8	31.8	13.8	10.8

Electrical Properties @20 deg C

Characteristics	Specifications
Characteristic Impedance	100+/- 15 Ohms
Conductor Resistance	Max < 9.38 Ohms/100m
Conductor Resistance Unbalance	Max 5%
Mutual Capacitance	5.6nF/100m
Delay Skew	Max 45 ns/100m
Propogation Delay	< 536 ns/100m @ 500MHz

Packaging
305m - Reel
500m / 1000m - Reel

Sterlite P/N	Product Description	Outter Diameter (mm nom.)
SLITE3105	Cat 6a 4x2x23 AWG U/FTP, PVC	7.5
SLITE3205	Cat 6a 4x2x23 AWG U/FTP, LSZH	7.5



Flame Retardant



Electromagnetically Shielded / Dielectric



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