

Category 6A U/UTP Cable - Super Slim



Key Features

- High performance Category 6A cable to transmit full broadband and baseband video signals
- Meets ANSI/TIA-568-C.2 (or 568B) and IEEE802.3 to support maximum 10Gbit TX transmission, and a bandwidth up to 500MHz
- Performance guaranteed max. 6 connections in any length channel configuration up to 100m
- Products according to ISO/IEC 11801
- Product considered on PSACR-F and PSANEXT when cable bundling and provides optimized performance.
- Thinner cable diameter allows for higher efficiencies of work time, cost & space.
- Optimized solution for high density data centers and IBS buildings with thinner cable and a whole range of components

Guaranteed Channel Performances (6-connection)

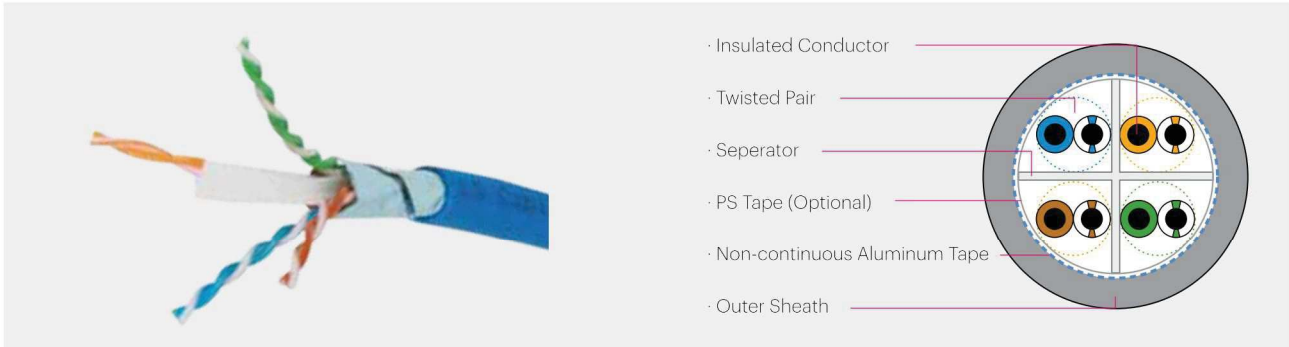
Frequency (MHz)	Attenuation (dB / 100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB / 100m)	PSELFEXT (dB / 100m)	Return Loss (dB)	PSANEXT (dB / 100m)	PSAELFEXT (dB / 100m)
1	2.3	65.0	62.0	63.3	60.3	19.0	67.0	67.0
4	4.2	63.0	60.5	51.2	48.2	19.0	67.0	65.0
8	5.8	58.2	55.6	45.2	42.2	19.0	67.0	58.9
10	6.5	56.6	54.0	43.3	40.3	19.0	67.0	57.0
16	8.2	53.2	50.6	39.2	36.2	18.0	67.0	52.9
20	9.2	51.6	49.0	37.2	34.2	17.5	67.0	51.0
25	10.2	50.0	47.3	35.3	32.3	17.0	66.0	49.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5	65.1	47.1
62.5	16.4	43.4	40.6	27.3	24.3	14.0	62.0	41.1
100	20.9	39.9	37.1	23.3	20.3	12.0	60.0	37.0
200	30.1	34.8	31.9	17.2	14.2	9.0	55.5	31.0
250	33.9	33.1	30.2	15.3	12.3	8.0	54.0	29.0
300	37.4	31.7	28.8	13.7	10.7	7.2	52.8	27.5
400	43.7	28.7	25.8	11.2	8.2	6.0	51.0	25.0
500	49.3	26.1	23.2	9.3	6.3	6.0	49.5	23.0

* The figures larger than 67dB for PSANEXT and PSAELFEXT are information only.

Typical Channel Performance

Attenuation (dB / 100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB / 100m)	PSELFEXT (dB / 100m)	Return Loss (dB)	PSANEXT (dB / 100m)	PSAELFEXT (dB / 100m)
-10%	+5	+5	+8	+8	+5	+5	+8

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Descriptions

- 4 pair twisted cable
- Cable diameter : 0.256in. (6.8mm), World's thinnest Category 6A Cable
- UL Listed CMR grade flame rating
- ETL Verified 6-Connector Channel
- Transmits full broadband and baseband video signals
- Electrical performance according to TIA-568.2-D
- Packaged on Wooden Reel
- Superior alien crosstalk mitigation
- RoHS compliant
- Applicable for LS 25-Year Extended Product Warranty
- Meets requirements of CPR (Dca s2-d2-a1) grade.

Applications

- Horizontal Distribution & Backbone Cabling
- 4/16 Mbps Token Ring(IEEE 802.5)
- 10/100/1000/10G BASE-T(IEEE 802.3)
- 155 Mbps ATM
- 100Mbps TP-PMD
- ISDN, ADSL
- ATM LAN 1.2G
- PoE++ (IEEE 802.3bt draft. Type 3(60W) or Type 4(100W))

Technical Details

Item	Unit	PVC / LSZH
Conductor DC Resistance	Ohms/100 m	Max. 9.38
Resistance Unbalance	%	5
Mutual Capacitance	nF/100 m	5.6
Capacitance Unbalance	pF/100 m	330
Characteristic Impedance	Ohms	100 ± 15%
Propagation Delay	ns/100 m	536 @ 500MHz
Delay Skew	ns	45
Nominal Velocity of Propagation	%	67
Installation Temperature	°C / °F	0~60/32~140
Operating Temperature	°C / °F	-20 ~ 60 / -4 ~ 140
Storage Temperature	°C / °F	-20 ~ 80 / -4 ~ 176
Bending Radius	-	4 x Cable Diameter
Packaging Type	1000ft (305m)	Reel
Packaging Weight	lb/kft (kg/km)	34 (50)
Conductor Diameter / Material	-	23 AWG, Solid Copper
Insulation Diameter / Material	Inch (mm)	0.043(1.1), HDPE
Outer Diameter / Material	Inch (mm)	0.256in. (6.8mm), PVC or LSZH
Safety Standard, Performance Standard	PVC-UL444 / CMX-UL1581, IEC 60332-1 / CM-UL1685, IEC 60332-3 / CMR-UL1666 / LSZH-IEC 61034, IEC 60754	
Approvals Performance	TIA-568.2-D / ISO / IEC 11801 "Performance specifications for 100 ohm Category 6A Cabling"	