

## CAT6A U/UTP Cable

Test Standard		ANSI/TIA-568-C.2		ISO/IEC11801				
Conductor		Material	Solid Bare Copper					
		Diameter (mm)	23AWG					
Insulation		Material	HDPE					
		Diameter (mm)	1.09±0.05					
Core color		1.white-blue/blue	2.white-orange/oran					
		3.white-green/green	4.white-brown/brow					
Polyester tap	Yes	Signal isolation	Yes					
Rip cord	210D*3	Seperator	Yes					
Sheath		Material	LSZH					
		Thickness (mm)	0.6±0.1					
		Diameter (mm)	7.8±0.5					
		Color	Purple					
Surface printing		Letter high	3.0 ± 0.5mm					
		Color	Black					
		Print error & Space	≤± 0.5% , 1m					
Package: Drum		Package Length: 305m						
Drum Dimensions (mm)		400*200*320 (reference)						
<b>Electrical Properties</b>								
Conductor Resistance (20°C)				≤8.5 Ω/ 100m				
Electrical Resistance Unbalance ( 20°C)				≤2.0%				
Insulation Resistance				>5000 MΩ·km				
Pair to Ground Capacitance Unbalance (0.8 KHz or 1KHz)				≤160pF/100m				
<b>Transmission Properties</b>								
F <sub>eq</sub> MHZ	Z <sub>c</sub> , Ω		IL	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT
	Z <sub>L</sub>	Z <sub>U</sub>	dB/100m	dB	dB/100m	dB/100m	dB/100m	dB/100m
1.0	81.8	122.2	≤2.1	≥20.0	≥74.3	≥72.3	≥67.8	≥64.8
4.0	86.8	115.2	≤3.8	≥23.0	≥65.3	≥63.3	≥55.8	≥52.8
8.0	88.8	112.6	≤5.3	≥24.5	≥60.8	≥58.8	≥49.7	≥46.7
10.0	89.4	111.9	≤5.9	≥25.0	≥59.3	≥57.3	≥47.8	≥44.8
16.0	89.4	111.9	≤7.5	≥25.0	≥56.2	≥54.2	≥43.7	≥40.7
20.0	89.4	111.9	≤8.4	≥25.0	≥54.8	≥52.8	≥41.8	≥38.8
25.0	88.5	112.9	≤9.4	≥24.3	≥53.3	≥51.3	≥39.8	≥36.8
31.25	87.7	114.1	≤10.5	≥23.6	≥51.9	≥49.9	≥37.9	≥34.9
62.5	84.5	118.3	≤15.0	≥21.5	≥47.4	≥45.4	≥31.9	≥28.9
100	82.0	121.9	≤19.1	≥20.1	≥44.3	≥42.3	≥27.8	≥24.8
200	79.6	125.7	≤27.6	≥18.0	≥39.8	≥37.8	≥21.8	≥18.8
250	77.6	128.8	≤31.1	≥17.3	≥38.3	≥36.3	≥19.8	≥16.8
300	76.0	131.5	≤34.3	≥17.3	≥37.1	≥35.1	≥18.3	≥15.3
400	73.4	136.2	≤40.1	≥17.3	≥35.3	≥33.3	≥15.8	≥12.8
500	71.3	140.2	≤45.3	≥17.3	≥33.8	≥31.8	≥13.8	≥10.8
<b>Environment Temperature</b>								
Store	-10~+50°C		Installation	-5~+40		Work	-20 ~ +60	
Ordering Information			IB-CAT6A-UU-XX-L			CAT6A U/UTP CABLE, LSZH		

