

Specification for Category 6A U-UTP Stranded Lan Cable
Spec. No. S1030214 Version: A Date: February 14, 2014

24AWG x 4P

ANSI/TIA-568-C.2 : Patch Cable Stranded Conductor

1.Conductor: Material / Size Bare copper / 24AWG

2.Insulation : HDPE(CMI-75E)

Min. Avg. Thickness: 0.178mm;

Min. Thickness: 0.153 mm

3.Color Code:

Pair 1: Blue & White/Blue;

Pair 2: Orange & White/Orange

Pair 3: Green & White/Green;

Pair 4: Brown & White/Brown

4.Jacket: LSZH (low-smoke & non-halogen) compound

Min. Avg. Thickness: 0.60 mm;

Min. Thickness: 0.53 mm

Approximate O.D.: 6.3 mm +/- 0.3mm

5.Electric Requirements: (Cable length: 100M)

Characteristic Impedance(Z_0): 85 ~ 115 Ω (1 ~ 500 MHz)

DC. Resistance Capacitance Unbalance: 5%

Pair-to-Ground Capacitance Unbalance: 330 pF/100M Max

Conductor Resistance: 8.76 Ω / 100M 20°C Max

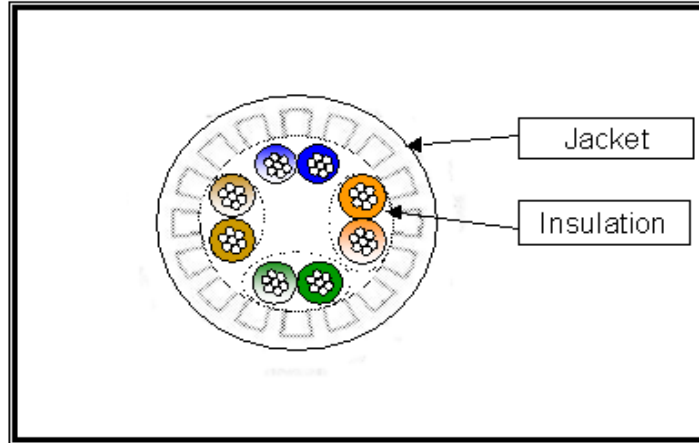
Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 69 %

ROHS Compliant

Category 6A U-UTP Stranded Lan Cable



Category 6A							
Frequency MHz	Insertion loss Stranded	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
*1	2.4	20.0	74.3	67.8	570	72.3	64.8
*8	6.4	24.5	60.8	49.7	547	58.8	46.7
*10	7.1	25.0	59.3	47.8	545	57.3	44.8
*16	9.1	25.0	56.2	43.7	543	54.2	40.7
*25	11.4	24.3	53.3	39.8	541	51.3	36.8
*31.25	12.8	23.3	51.9	37.9	540	49.9	34.9
*62.5	18.5	20.7	47.4	37.9	539	45.4	28.9
*100	23.8	19.0	44.3	27.8	538	42.3	24.8
*200	34.8	16.4	39.8	21.8	538	37.8	18.8
*250	39.4	15.6	38.3	19.8	536	36.3	16.8
*300	44.1	14.9	37.1	18.3	536	35.1	15.3
*400	51.6	13.8	35.3	15.8	536	33.3	12.8
*500	56.4	13.0	33.8	13.8	536	31.8	10.8

The asterisked (*) *Values show on tables above are for reference purpose only.

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