



Specification for Hyper-Data 2000 CAT6 UTP Stranded LSZH Lan Cable

Spec. No. S901106 Version: B Date: March 25th, 2008

TIA/EIA-568-B.2-1: Patch Cable (Stranded Conductor), 24 AWG x 4P

1. **Conductor:** Stranded Bare Copper (7 x 32 AWG)

2. **Insulation :** HDPE (CMI-75E)

Nominal Wall Thickness: 0.178mm

Min. Thickness: 0.153mm

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:** 75 °C LSZH Compound

Nominal Wall Thickness: 0.585mm

Min. Thickness: 0.458mm

Overall Diameter: 5.8mm ± 0.3mm

5. **Electric Requirements:** (Cable length: 100m)

Characteristic Impedance(Z_0): 85 ~ 115 Ω (1 ~ 250 MHz)

DC. Resistance Capacitance Unbalance: 5%

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

Conductor Resistance: 14.00 Ω /100m 20°C Max.

Mutual Capacitance: 5.6nF/m Max.

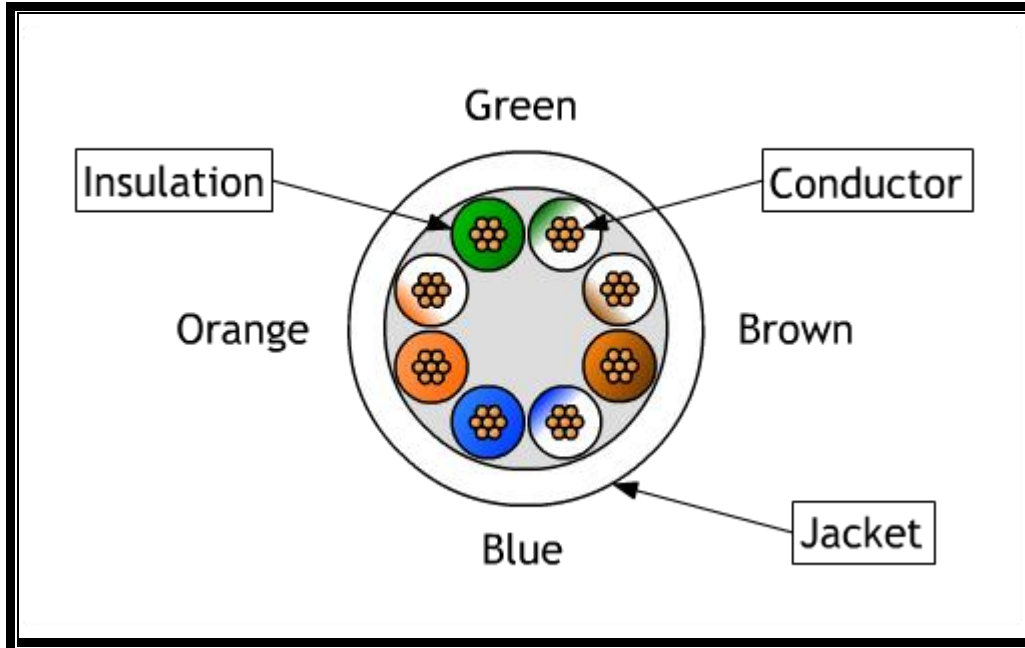
Spark Test: 2.5kV

Nominal Velocity of Propagation (NVP): 69%

RoHS Compliant



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Frequency MHz	Att. Stranded	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	2.4	74.3	72.3	538.5	45	20.0	67.8	64.8
10	7.1	59.3	57.3	545.0	45	25.0	47.8	44.8
20	10.2	54.8	52.8	539.9	45	25.0	41.8	38.8
31.25	12.8	51.9	49.9	540.2	45	23.3	37.9	34.9
62.5	18.5	47.4	45.4	540.8	45	20.7	31.9	28.9
100	23.8	44.3	42.3	541.4	45	19.0	27.8	24.8
200	34.8	39.8	37.8	542.5	45	16.4	21.8	18.8
250	39.4	38.3	36.3	543.0	45	15.6	19.8	16.8