

Specification for Cat.6 UTP Solid LSZH Lan Cable
Spec. No. S901105 Version: LE Date: January 18, 2007

Item no.: 21.15.1789

TIA/EIA-568-B.2-1: Horizontal Cable (Solid Conductor)

24AWG x 4P

1.Conductor: Solid Bare copper (1 x AWG24)

2.Insulation : HDPE(CMI-75E)

Min. Avg. Thickness: 0.178 mm;

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: 0.585 mm;

Min. Thickness: 0.458 mm

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

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

Characteristic Impedance(Z_0): $85 \sim 115 \Omega$ (1 ~ 250 MHz)

Other Requirements: (dB/100M)+

DC. Resistance Capacitance Unbalance: 5%

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

Conductor Resistance: $9.38 \Omega / 100M$ 20°C Max

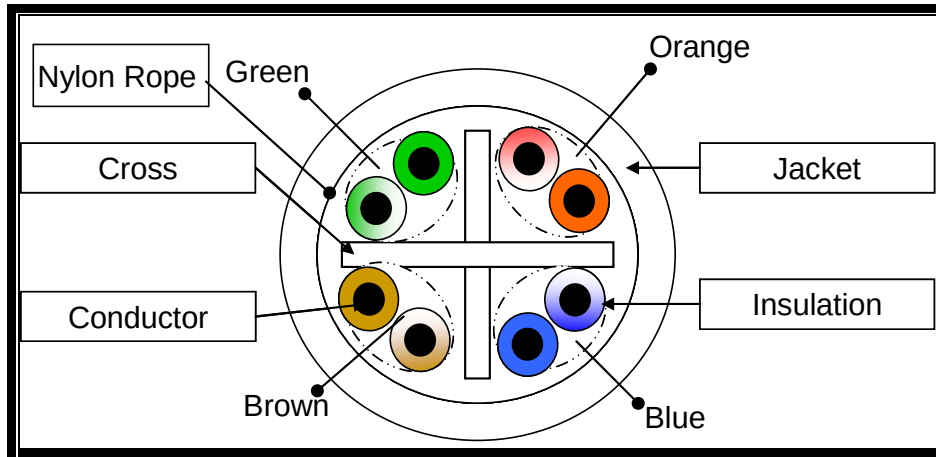
Mutual Capacitance: 5.6 nF/m Max

Spark Test: 2.5KV

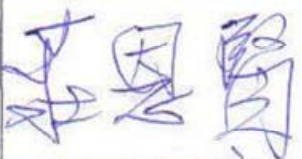
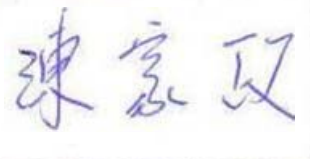
Nominal Velocity of Propagation (NVP): 69 %

ROHS Compliant

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Frequency MHz	Att. Solid	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	2.0	74.3	72.3	570	45	20.0	67.8	64.8
10	6.0	59.3	57.3	545	45	25.0	47.8	44.8
20	8.5	54.8	52.8	542	45	25.0	41.8	38.8
31.25	10.7	51.9	49.9	540.4	45	23.6	37.9	34.9
62.5	15.4	47.4	45.4	538.6	45	21.5	31.9	28.9
100	19.8	44.3	42.3	537.6	45	20.1	27.8	24.8
200	29.0	39.8	37.8	536.5	45	18.0	21.8	18.8
250	32.8	38.3	36.3	536.3	45	17.3	19.8	16.8

ROHS Compliant