

Specification for Hyper-Data 2000 Cat.6 UTP Solid Lan Cable

UL 444 & CSA-C22.2 No.214: Type CM, 24AWG x 4P

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

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

2.Insulation : HDPE(CMI-75E)

Min. Avg. Thickness: 0.178 mm;

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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 PVC Compound (CMI-80S)

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

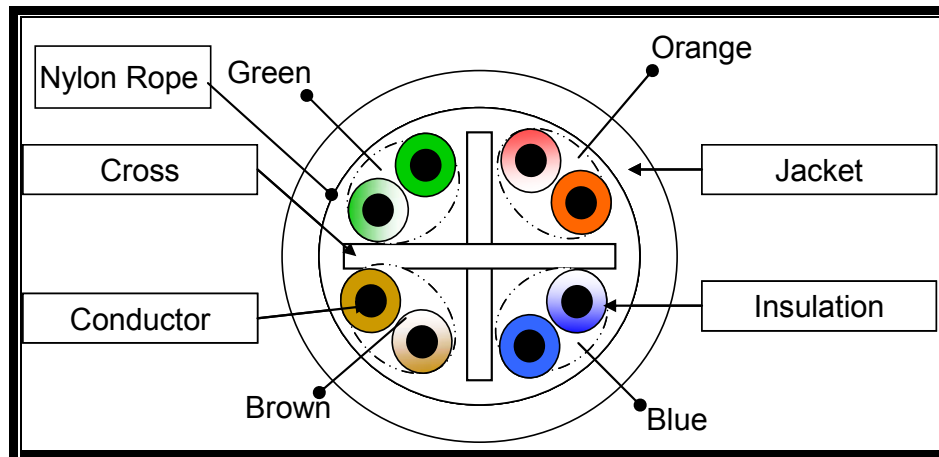
Conductor Resistance: $9.38 \Omega / 100M$ 20°C Max

Mutual Capacitance: 5.6 nF/m Max

Spark Test: 2.5KV

ROHS Compliant

Cat.6 UTP Solid Lan Cable



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