

Cat6 U/UTP

23AWG bulk cable

305M, PVC, type CM, UL, ETL, ROHS

**CATEGORY 6****UNSHIELDED**

RoHS



DATASHEET

**1.Conductor:** Material / Size Bare copper / 23AWG**2.Insulation:** HDPE(CMI-75E)

Min. Avg. Thickness: 0.198 mm
Min. Thickness: 0.183 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: 75 °C PVC Compound (CMI-80S)
Min. Avg. Thickness: 0.585 mm
Min. Thickness: 0.458 mm
Approximate O.D.: 6.2 mm +/- 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: 9.38 Ω / 100M 20 °C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: Outer Jacket: 2.5KV**Insulation: 1.75KV****Dielectric Strength: 1.5KV AC/2secs**

Nominal Velocity of Propagation (NVP): 69 %

6.Temperature Range: Installation Temperature 0 to 50 °C

Storage Temperature -20 to 75 °C

Operation Temperature -10 to 60 °C

Frequency MHz	Att. Solid	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
*1	2.1	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

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

Marking on surface of Sheath:

T3 INNOVATION Cat6 U/UTP --- CM 75°C 4PR 23AWG c(UL)us E151955 ETL VERIFIED to ANSI/TIA-568.2-D RoHS MADE IN TAIWAN BATCH NO. 305M.....1M

Diameter: 0.55 mm +/- 0.005mm
Diameter: 0.96 mm +/- 0.05mm

