

## DATA SHEET & TEST REPORT

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**Specification for Category 6 A UTP Solid Lan Cable**  
**Made in INDIA**

**Date: NOV. 25, 2020**

**FR PVC - 23AWG x 4P**

**ANSI/TIA-568-C.2: Solid Conductor**

**1.Conductor:** Solid Bare Copper (1 /0.565+/-0.002mm)

**2.Insulation :** HDPE

Min. Avg. Thickness: 0.220 mm;

Min. Thickness: 0.195 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

Min. Avg. Thickness: 0.80mm;

Min. Thickness: 0.70 mm

Approximate O.D.: 7.8 mm +/- 0.3mm

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

Characteristic Impedance( $Z_0$ ): 85 ~ 115  $\Omega$  (1 ~ 500 MHz)

DC. Resistance Capacitance Unbalance: 5%

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

Conductor Resistance: 7.32  $\Omega$ / 100M 20°C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

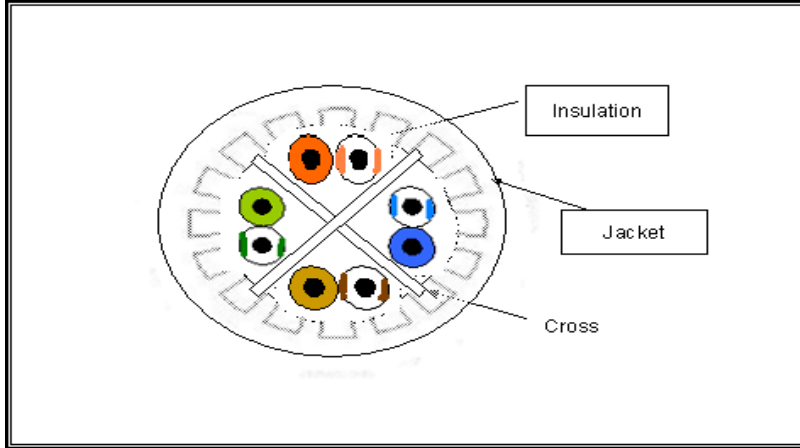
Nominal Velocity of Propagation (NVP): 68 %

**ROHS Compliant**

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| <b>Category 6A</b> |                           |                |      |      |                |         |            |
|--------------------|---------------------------|----------------|------|------|----------------|---------|------------|
| Frequency<br>MHz   | Insertion loss<br>(Solid) | Return<br>Loss | NEXT | ACRF | Prop.<br>Delay | PS NEXT | PS<br>ACRF |
| 1                  | 2.1                       | 20.0           | 74.3 | 67.8 | 570            | 72.3    | 64.8       |
| 4                  | 3.8                       | 23.0           | 65.3 | 55.8 | 552            | 63.3    | 52.8       |
| 8                  | 5.6                       | 24.5           | 60.8 | 49.7 | 547            | 58.8    | 46.7       |
| 10                 | 5.9                       | 25.0           | 59.3 | 47.8 | 545            | 57.3    | 44.8       |
| 16                 | 7.5                       | 25.0           | 56.2 | 43.7 | 543            | 54.2    | 40.7       |
| 20                 | 8.4                       | 25.0           | 54.8 | 41.8 | 542            | 52.8    | 38.8       |
| 25                 | 9.4                       | 24.3           | 53.3 | 39.8 | 541            | 51.3    | 36.8       |
| 31.25              | 10.5                      | 23.6           | 51.9 | 37.9 | 540            | 49.9    | 34.9       |
| 62.5               | 15.0                      | 21.5           | 47.4 | 37.9 | 539            | 45.4    | 28.9       |
| 100                | 19.1                      | 20.1           | 44.3 | 27.8 | 538            | 42.3    | 24.8       |
| 200                | 27.6                      | 18.0           | 39.8 | 21.8 | 538            | 37.8    | 18.8       |
| 250                | 31.1                      | 17.3           | 38.3 | 19.8 | 536            | 36.3    | 16.8       |
| 300                | 34.3                      | 16.8           | 37.1 | 18.3 | 536            | 35.1    | 15.3       |
| 400                | 40.1                      | 15.9           | 35.3 | 15.8 | 536            | 33.3    | 12.8       |
| 500                | 45.3                      | 15.2           | 33.8 | 13.8 | 536            | 31.8    | 10.8       |

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