

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

Specification for KUWES Cat.6 UTP 600MHZ Solid Lan Cable

UL 444 & CSA-C22.2 Type CM, 23AWG x 4 Pairs

ANSI/TIA-568-C.2 : Horizontal Cable (Solid Conductor)

1.Conductor: Solid Bare copper x 23AWG

2.Insulation : HDPE

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: 75°C PVC Compound

Min. Avg. Thickness: 0.6 mm;

Min. Thickness: 0.50 mm

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

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

Characteristic Impedance(Z_0): 85~115 Ω (1~500 MHZ)

DC. Resistance Capacitance Unbalance: 5%

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

Conductor Resistance:7.32 Ω / 100M 20°C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 69%

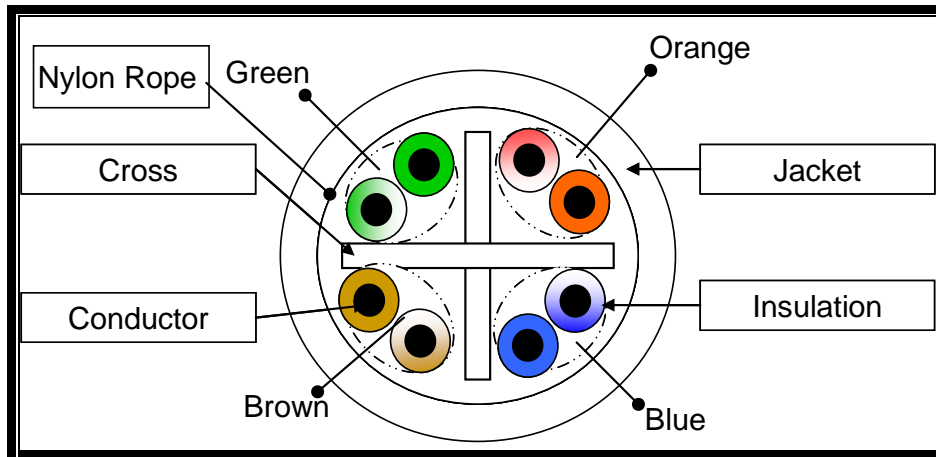
ROHS Compliant

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| Frequency | Att. | Pr-Pr | PS | Prop. | Delay | Return Loss | Pr-Pr | PS |
|-----------|-------|-------|------|----------|---------|-------------|--------|--------|
| MHz | Solid | NEXT | NEXT | Delay ns | Skew ns | | ELFEXT | 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 | 33.1 | 38.3 | 36.3 | 536.3 | 45 | 17.3 | 19.8 | 16.8 |
| 300 | 36.4 | 35.9 | 34.1 | 534.3 | 45 | 16.2 | 18.2 | 15.2 |
| 400 | 43.0 | 34.4 | 33.8 | 534.0 | 45 | 15.1 | 15.7 | 12.7 |
| 550 | 51.8 | 34.1 | 33.2 | 533.6 | 45 | 13.2 | 12.9 | 9.9 |
| 600 | 55.3 | 32.2 | 31.3 | 533.6 | 45 | 12.3 | 12.4 | 8.6 |

ROHS Compliant