# CAT6A UTP/Copper LAN Cable 305m AWG24

CAT6A U/UTP 24AWG PURE COPPER INSOLTATION+PVC JACKET,305M WOODEN REEL

**RS601**

## Description

| | |
|---|---|
| **Rated Temperature (°C):** | 75 |
| **Application:** | Horizontal Wiring in LAN |
| **Reference Standard:** | UL Subject 444,EIA/TIA568 & ISO/IEC 11801 |

## Construction

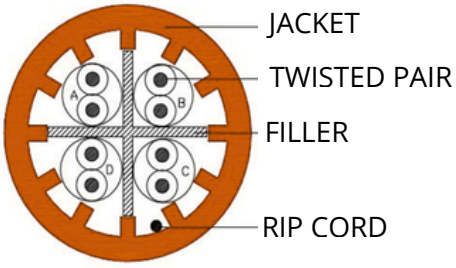
| | |
|---|---|
| **Conductor** | Solid Bare Copper |
| **AWG** | 24 |
| **Conductor Dia. (±0.05mmmm)** | **0.52** |
| **Insultation** | **PE** |
| **Average Thickness(mm)** | 0.220 |
| **Min. Point Thickness(mm)** | 0.200 |
| **Insulation Dia.(±0.01mm)** | **0.98** |
| **Twisted Pair Dia.(±0.02mm)** | 2.00 |
| **Filler** | PE |
| **Assembly Dia.(±0.2mm)** | 4.6 |

| | |
|---|---|
| **Jacket** | **PVC** |
| **Average Thickness(mm)** | 0.60 |
| **Min. Point Thickness(mm)** | 0.55 |
| **Outer Dia.(±0.1mm)** | **7.10** |

| | |
|---|---|
| **Rip Cord** | Nylon |

## Cross Section

4X2X0.52




## Cross Section

- Blue
- White Blue
- Orange
- White Orange
- Green
- White Green
- Brown
- White Brown

## Jacket Color

- Orange

## Marking

- RS 601 CAT6A U/UTP 24AWG 4PR 500MHz PURE COPPER PVC CE RoHS ISO/IEC11801 EN50173 TIA-568.2 --- METRE MARKING ---

# CAT6A UTP/Copper LAN Cable 305m AWG24

## Performance

| Electrical Characteristics | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Freq (MHz) | Ret.Loss (Min dB) | Atten. (MAX) | NEXT (Min dB) | Frequency (MHz) | PSNEXT (Min dB) | ELFEXT Min(dB/100m) | PSELFEXT Min(dB/100m) | DELAY Max(ns/100m) |
| 1 | 20 | 2 | 76.3 | 1 | 72.6 | 68.8 | 65.8 | 570 |
| 4 | 23 | 4.1 | 67.3 | 4 | 63.6 | 56.7 | 53.7 | 552 |
| 8 | 24.5 | 5.8 | 62.8 | 8 | 59.1 | 50.7 | 47.7 | 546.7 |
| 16 | 25 | 8.2 | 58.3 | 16 | 54.6 | 44.7 | 41.7 | 543 |
| 20 | 25 | 9.3 | 56.8 | 20 | 53.1 | 42.7 | 39.7 | 542 |
| 62.5 | 21.5 | 17 | 49.4 | 62.5 | 45.7 | 32.8 | 29.8 | 538.6 |
| 100 | 20.1 | 22 | 46.3 | 100 | 42.6 | 28.8 | 25.8 | 537.6 |
| 200 | 18 | 32.4 | 41.8 | 200 | 38.1 | 22.7 | 19.7 | 536.5 |
| 250 | 17.3 | 36.9 | 40.3 | 250 | 36.6 | 20.8 | 17.8 | 536.3 |
| 300 | 16.8 | 41 | 39.2 | 300 | 35.5 | 19.2 | 16.2 | 536.1 |
| 400 | 15.9 | 48.5 | 37.3 | 400 | 33.6 | 16.7 | 13.7 | 535.8 |
| 500 | 14.9 | 58.8 | 35.2 | 500 | 31.5 | 13.9 | 10.9 | 535.5 |

| | |
|---|---|
| 1.0-100.0MHz Impedance (ohms) | 100±15 |
| 1.0-100.0MHz Delay Skew (ns/100m) | <=45 |
| Pair-to-Ground Capacitance Unbalance (pF/100m) | <=330 |
| Max. Conductor DC Resistance 20 oC (ohms/km) | 89 |
| Resistance Unbalance (%) | <=5 |

## Mechanical Characteristics

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|---|---|
| Test Object | Jacket |
| Test Material | PVC |
| Before Tensile Strength (Mpa) | >=13.8 |
| Aging Elongation (%) | >=150 |
| Aging Condition (oCxhrs) | 100x168 |
| After Tensile Strength(Mpa) | >=85%of unaged |
| Aging Elongation | >=50%of unaged |
| Cold Bend(-20±2 oCx4hrs) | Nocrack |