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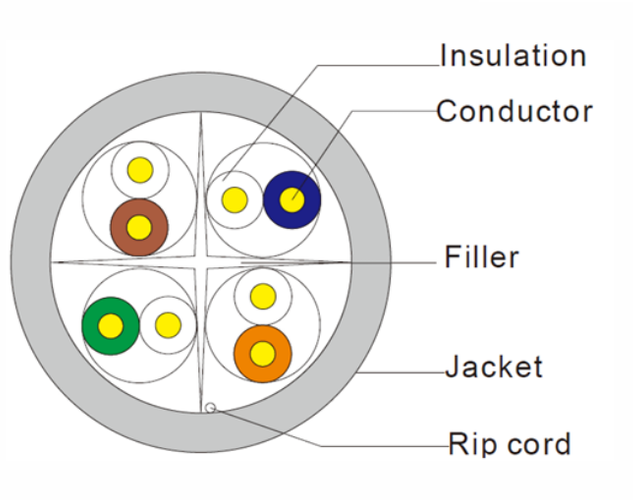
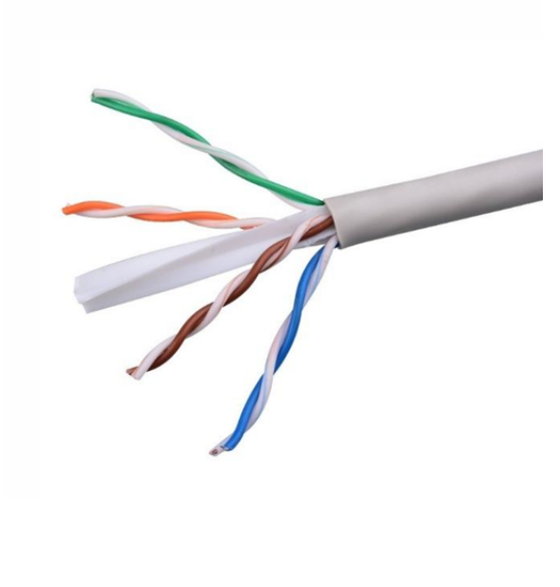
# CAT6 U/UTP 23AWG PVC CABLE

TN5007C623PVC



## Product Description

TEXA NETWORK's Category 6 U/UTP cables are manufactured and tested to the TIA/EIA 568-C2, EN50173-1 and ISO/ IEC 11801 Category 6 specifications. TEXA NETWORK's Category 6 U/UTP cable is designed for optimal support of High-Speed data protocols delivering 1 Gbps performance to the workstation. Each cable consists of 8 colour coded 23AWG High Density polyethylene insulated conductors. Each conductors are twisted together to form 4 pairs with varying lengths. These pairs are then put around a central 'X' shaped polyethylene filler/Separator which helps in maintaining and enhancing the cable performance. TEXA NETWORK's CAT6 cable is designed for quick and easy installation where no special tools are required. CAT6 cable is supplied in "Reelex" packaging for fast, snag free installation.

## Features & Benefits

- Performance exceeding Category 6 specifications of 250MHz
- Performance compliance to ISO/IEC 11801 and ANSI/TIA-568-C2
- ThirdParty Delta EC verified
- AWG23,SolidBareCopper
- PVC
- 25Years System Warranty

## Standards Complied and Verified for Category 6 Cable Performance

- ISO/IEC 11801:2017
- ANSI/TIA-568-C2:2009
- IEC61156-5:2009 + AMD1:2012 CSV Consolidated version
- BSEN50173-1:2018
- EN50288-6-1:2013

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## Specification

| | |
|---|---|
| Overall Diameter (mm) | 5.9 ±0.3 |
| Sheath Type / Surface | PVC / Clean, Frap, Satiation |
| Insulation Material | HDPE |
| Conductor Diameter (mm) | 0.53 (±0.01) |
| Conductor Material | Solid Bare Copper |
| Impedance (Ω) @ 1-250 MHz | 100 ±15 Ω |
| Delay Skew (ns/100m) @1-250 MHz | ≤ 45 |
| Max. DC Resistance(Ω/100m) | 9.38 |
| Max. DC Conductor ResistanceUnbalance (%) | 5.0 |

| | |
|---|---|
| Nominal Velocity of Propagation (NVP) | 69% |
| Rip cord | Yes |
| Drain Wire | No |
| Max.Pulling Force (N) | 115 |
| Min. Bend Radius during Installation | 4xD (Overall diameter) |
| Min. Bend Radius after Installed | 4xD (Overall diameter) |
| Installation Temperature Range | 0°C to +60°C |
| Operating Temperature Range | -20°C to +70°C |
| Packing Length (Meters) | 305 ±1.5 |

| Freq. (MHz) | RL (Min. dB) | ATTN (Max. dB/100m) | NEXT (Min. dB) | PSNEXT (Min. dB) | ELFEXT (ACR-F) (Min. dB/100m) | PSELFEXT (PSACR-F) (Min. dB/100m) | Phase Delay (Max. ns) |
|---|---|---|---|---|---|---|---|
| 1 | 19.1 | 1.9 | 65.0 | 62.0 | 64.2 | 61.2 | 570.00 |
| 4.0 | 21.0 | 3.5 | 64.1 | 61.8 | 52.1 | 49.1 | 552.00 |
| 8.0 | 21.0 | 5.0 | 59.4 | 57.0 | 46.1 | 43.1 | 547.00 |
| 10.0 | 21.0 | 5.5 | 57.8 | 55.5 | 44.2 | 41.2 | 545.00 |
| 16.0 | 20.0 | 7.0 | 54.6 | 52.2 | 40.1 | 37.1 | 543.00 |
| 20.0 | 19.5 | 7.9 | 53.1 | 50.7 | 38.2 | 35.2 | 542.00 |
| 25.0 | 19.0 | 8.9 | 51.5 | 49.1 | 36.2 | 33.2 | 541.00 |
| 31.25 | 18.5 | 10.0 | 50.0 | 47.5 | 34.3 | 31.3 | 540.00 |
| 62.5 | 16.0 | 14.4 | 45.1 | 42.7 | 28.3 | 25.3 | 539.00 |
| 100 | 14.0 | 18.6 | 41.8 | 39.3 | 24.2 | 21.2 | 538.00 |
| 200 | 11.0 | 27.4 | 36.9 | 34.3 | 18.2 | 15.2 | 537.00 |
| 250 | 10.0 | 31.1 | 35.3 | 32.7 | 16.2 | 13.2 | 536.00 |

## Part Number

| | |
|---|---|
| **(TN5007C623PVC)** | **Horizontal Cable, CAT6, U/UTP, 305m, PVC Sheath, 23AWG, Grey** |