# CAT6-UTP PVC *Premium*
## High performance Networking / Data Cables

## Description & Applications

**CAT6-UTP PVC** - Category 6 High performance multi-pair cable consisting of 4 unshielded twisted pairs (UTP) with solid Copper conductors of 0.56 mm (23AWG) per core, used primarily in high speed networking applications, supporting Gigabit Ethernet at frequencies up to 250Mhz.

When compared to CAT5e, each core pair has a higher 'twist per cm' ratio and an integral 'Spline' for pair separation, improving signal integrity and effectively eliminating potential cross talk.

This cable has been designed to exceed the performance requirements of the ANSI/TIA-568-C.2 for Category 6 cables and is suited for use in many types of high speed Networking application, HD TV & Video, HD & IP CCTV, POE, VOIP to name but a few.

Supplied on 305M (1000ft) Roll within 'easy pull' outer box.

## Specification

**Product Ref:** CAT6-UTP-PVC *Premium*

### Construction:
**Conductor :** Solid 'Bare Copper,' 0.56mm (23AWG)
**Cable:** 8 wires formed into 4 insulated twisted pairs
**Core Insulation:** HDPE - High Density Polyethylene
**Core Identification:**
4 colour coded twisted Pairs: Blue + White/Blue, Orange + White/Orange, Green + White /Green, Brown + White/Brown
**Spline:** Plastic 'Spline' separating each twisted pair to eliminate cross talk
**Screening / Shielding:** UTP – Unshielded 'unscreened' twisted pair cable
**Stripping Cord:** Nylon stripping cord.
**Outer Sheath:** PVC, Polyvinyl Chloride Jacket in light Grey colour.
**Overall Diameter:** 6.3mm (+/- 0.2mm)
**Cable Markings:** Product Ref code, / Metre marked / Applicable Standards.

### Electrical Properties:
**DC Resistance:** < 9.5 ohms/100m
**Resistance unbalance:** <2%
**Frequency Range:** Up to 250 Mhz
**Characteristic Impedance :** 100 Ohms +/- 15%
**Capacitance:** < 5.6 nf/100m
**NVP:** 69%
**Min. Bending Radius:** 7 x Overall diameter
**Operating temperature:** -20°c to +60°c
**Technical Performance @20°c:**
  **Attenuation:** 100mhz :19.8 Db / 250Mhz: 32.8dB
  **NEXT:** 100mhz :44.3 dB / 250Mhz: 38.3dB
**Packaging:** 305m (1000ft) 'Easy Pull' Box
**Weight:** 12Kg (including Box)
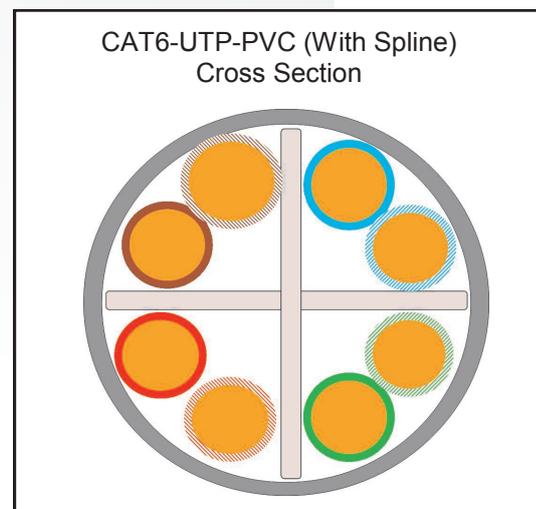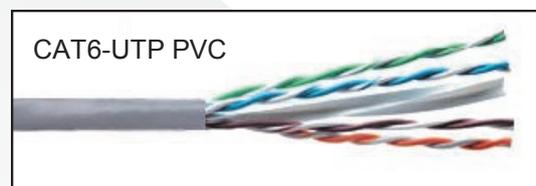
### Standards and Conformances:
Designed to exceed the performance requirements of :

- ANSI/TIA/ EIA-568-C.2 for Category 6 Cables
- EN50173
- ISO11801

Suitable for use in systems conforming to:
IEEE 802.3 / 10BASE-T / 100BASE-T / 1000BASE-T
RoHS Compliant





CAT6-UTP PVC



CAT6-UTP-PVC (With Spline)
Cross Section

**KORTEX** ™
**CABLES**

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