

# CAT6-FTP PVC

## High performance Networking / Data Cables

### Description & Applications

**CAT6-FTP PVC** - Category 6 High performance multi-pair cable consisting of 4 twisted pairs and a common outer Aluminium Foil shielding (FTP) with solid Copper conductors of 0.51 mm (24AWG) 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. The Foil screening can minimise unwanted high frequency signals from other local cables or other sources of noise from entering the cable.

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.

### Specification

**Product Ref:** CAT6-FTP-PVC

#### Construction:

**Conductor :** Solid 'Bare Copper,' 0.51mm (24AWG)

**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:** FTP – Common outer shielding (Foil screen) around the twisted pair cables, with drain wire.

**Stripping Cord:** Nylon stripping cord.

**Outer Sheath:** PVC, Polyvinyl Chloride Jacket in light Grey colour.

**Overall Diameter:** 6.4mm (+/- 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:

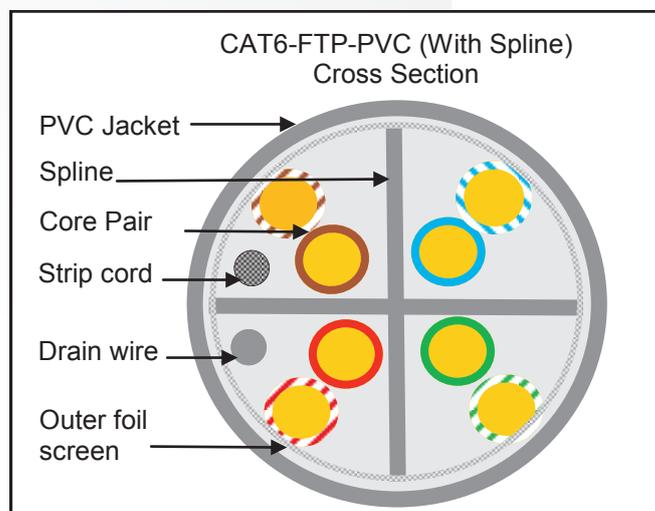
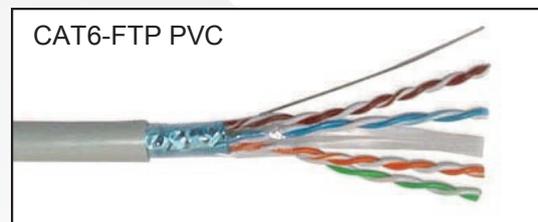
Designed to exceed the performance requirements of :

- 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



[www.kortexcables.co.uk](http://www.kortexcables.co.uk)

Kinetic Electronics Ltd. Unit 2A Townley Park, Middleton, Manchester. M24 2UF.  
TEL: 0161 654 9595 FAX: 0161 654 9596 EMAIL: [sales@kinetic-security.co.uk](mailto:sales@kinetic-security.co.uk)