

CAT6-UTP PE *Outdoor Premium*

High performance 'Duct Grade' Networking / Data Cables

Description & Applications

CAT6-UTP PE - 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. This outdoor specified 'Duct Grade' cable carries a weather and corrosion resistant Polyethylene (PE) outer jacket in Black. 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 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) Wooden Reel.

Specification

Product Ref: CAT6-UTP-PE *Outdoor 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: PE, Polyethylene Jacket in Black.

(weather & corrosion resistant 'duct grade')

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 (@100m / 20°C):

Attenuation: 100mhz :19.8 Db / 250Mhz: 32.8dB

NEXT: 100mhz :44.3 dB / 250Mhz: 38.3dB

Packaging: 305m (1000ft) on Wooden Reel

Weight: 13Kg (including reel)

Standards and Conformances:

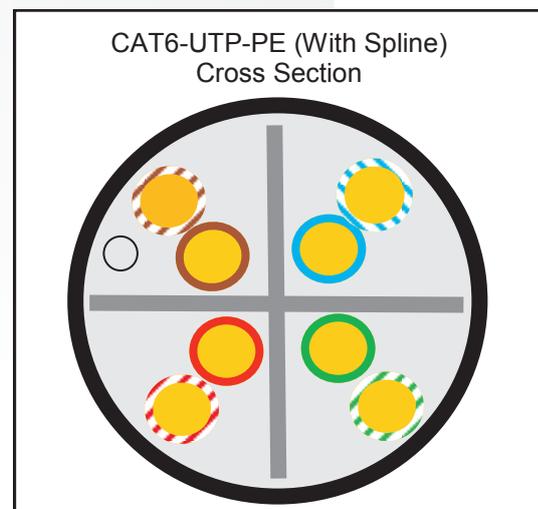
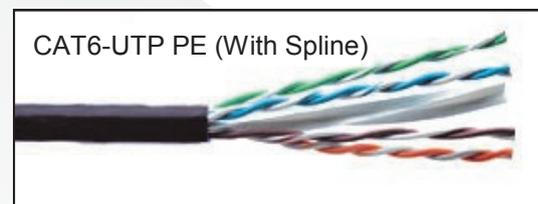
Designed to exceed the performance requirements of :

- 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



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