

# F-UTP PVC Cable -Cat 6 - 250MHz - 23AWG

MODEL: IKC-FUTP-C6-01

## Description & Features

- 01. Conductor:
  - Material : 23AWG solid bare copper
- 02. Insulation:
  - Material : Polyolefin (PO)
  - Color code & diameter
    - Blue & white/blue Stripe :  $1.09 \pm 0.02$  mm
    - Orange & white/orange stripe :  $1.05 \pm 0.02$  mm
    - Green & white/green stripe :  $1.09 \pm 0.02$  mm
    - Brown & white/brown stripe :  $1.05 \pm 0.02$  mm
- 03. Twisted:
  - Description : Left hand direction
- 04. Assembly:
  - Description : Left hand direction
- 05. Filter:
  - Material : Polyolefin (PO)
- 06. Shield:
  - Material : Mylar tape
  - Description : 100 % coverage and mylar side facing out
- 05. Drain wire:
  - Material : 26AWG solid tinned copper
- 07. Jacket:
  - Material : Mylar tape
  - Diameter :  $7.2 \pm 0.2$  mm
  - Thickness :  $0.45 \pm 0.05$  mm
  - Color : Per customer's request
- 10. Product Features:
  - High performance of transmission.
  - High quality of safety property.
  - Sweep frequency up to 400 MHz.

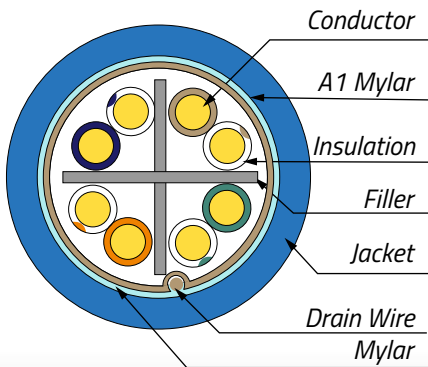
## Applications

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- Overall metal shielded providing good protection from EMI noise.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

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## Construction



CAT6 F/UTP cable features 23AWG solid bare copper conductors encased in a PVC jacket, designed for high-performance Ethernet networks. It includes a cross filler for maintaining the pair structure and reducing crosstalk, and an overall metal foil screen with a drain wire for enhanced shielding and reduced electromagnetic interference.

## Physical & Environmental Characteristics

|                           |                               |
|---------------------------|-------------------------------|
| ▶ Temperature range       |                               |
| Storage & shipping        | -20°C to 75°C                 |
| Installation              | 0°C to 60°C                   |
| Operation                 | -20°C to 75°C                 |
| ▶ Minimum bending radius  | ≥ 8 times of overall diameter |
| ▶ Maximum pulling tension | ≤ 110 Nv                      |

## Specifications

|   |                   |
|---|-------------------|
| ▶ Spark test                                | 2.5 KV DC         |
| ▶ AC leakage current through overall jacket | ≤ 10mA (1.5KV AC) |
| ▶ Cable cold bend                           | -20°C for 4 hr    |
| ▶ Conductor DC resistance                   | ≤ 9.38 Ω/100m     |
| ▶ Resistance unbalance                      | ≤ 5%              |
| ▶ Dielectric strength                       | 1.5 KV ac for 2 s |
| ▶ Insulation resistance                     | ≥ 5000 MΩ•km      |
| ▶ Mutual capacitance                        | ≤ 5.6 nF/100m     |
| ▶ Capacitance unbalance pair-to-ground      | ≤ 330 pF/100m     |

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## Standards & Certifications

|                             |   |
|-----------------------------|---|
| ▶ Electrical Transmission   | ANSI/TIA-568.2-D (2018)<br>ISO/IEC 11801-1<br>IEC 61156-5 (Edition 2.1) |
| ▶ Material and Construction | IEC 61156-5(Edition 2.1)  |
| ▶ Flame Test                | IEC 60332-1-2   |
| ▶ EU Directive              | EU Directive 2011/65/EU & 2015/863/EU<br>EU Directive 2006/95/EC (LVD)  |