

# UTP Cable - Cat 5e - 24AWG - 250MHz

MODEL: IKC - UTP - C5e



## Description & Features

- |                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01. Conductor:        | Material : 24AWG solid bare copper                                                                                                                                                                                                                                                                                                                                                              |
| 02. Insulation:       | Material : Polyolefin (PO)<br>Color code & diameter <ul style="list-style-type: none"><li>- Blue &amp; white/blue Stripe : <math>0.87 \pm 0.02</math> mm</li><li>- Orange &amp; white/orange stripe : <math>0.86 \pm 0.02</math> mm</li><li>- Green &amp; white/green stripe : <math>0.87 \pm 0.02</math> mm</li><li>- Brown &amp; white/brown stripe : <math>0.86 \pm 0.02</math> mm</li></ul> |
| 03. Twisted:          | Description : Left hand direction                                                                                                                                                                                                                                                                                                                                                               |
| 04. Assembly:         | Description : Left hand direction                                                                                                                                                                                                                                                                                                                                                               |
| 05. Rip cord:         | Material : Polyester multi-yarn                                                                                                                                                                                                                                                                                                                                                                 |
| 06. Jacket:           | Material : Polyvinyl chloride (PVC)<br>Diameter : $4.9 \pm 0.20$ mm<br>Thickness : $0.45 \pm 0.05$ mm<br>Color : Per customer's request                                                                                                                                                                                                                                                         |
| 07. Product Features: | High performance of transmission.<br>High quality of safety property.<br>Sweep frequency up to 100 MHz.<br>Reel on a carton and easy to pull out.<br>Carton with one layer corrugated design providing sufficient strength and saving packaging space.                                                                                                                                          |

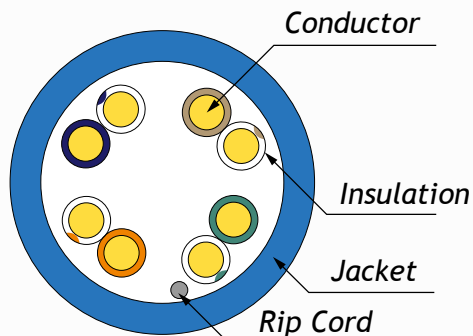
## Applications

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI/ ATM/ Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

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## Construction



CAT 5E. U/UTP (Unshielded Twisted Pair) cable with 24AWG solid bare copper conductors. It features a PVC jacket for insulation and protection. Also, it includes a rip cord for easier stripping of the outer jacket during insulation or termination processes.

## 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  | ≥ 4 times of overall diameter |
| ▶ Maximum pulling tension | ≤ 110 N                       |

## 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) |
| ▶ Flame Test                | IEC 60332-1-2                                                           |
| ▶ Material and Construction | IEC 61156-5(Edition 2.1)                                                |
| ▶ EU Directive              | EU Directive 2011/65/EU & 2015/863/EU<br>EU Directive 2006/95/EC (LVD)  |
| CPR Class Eca               |                                                                         |