

UTP Cable - Cat 6 - 23AWG - 250MHz

MODEL: IKC-UTP-C6

Description & Features

- 01. Conductor:
 - Material : 23AWG solid bare copper
- 02. Insulation:
 - Material : Polyolefin (PO)
 - Color code & diameter
 - Blue & white/blue Stripe : 0.97 ± 0.01 mm
 - Orange & white/orange stripe : 0.93 ± 0.01 mm
 - Green & white/green stripe : 0.96 ± 0.01 mm
 - Brown & white/brown stripe : 0.93 ± 0.01 mm
- 03. Twisted:
 - Description : Left hand direction
- 04. Filler:
 - Material : Polyolefin (PO)
- 05. Assembly:
 - Description : Left hand direction
- 06. Rip cord:
 - Material : Polyester multi-yarn
- 07. Jacket:
 - Material : Polyvinyl chloride (PVC)
 - Diameter : 6.00 ± 0.20 mm
 - Thickness : 0.50 ± 0.03 mm
 - Color : Per customer's request
- 08. Product Features:
 - High performance of transmission.
 - High quality of safety property.
 - Sweep frequency up to 600 MHz
 - Reelex II carton and easy to pull out.
 - Carton with one layer corrugated design providing sufficient strength and saving packaging space.

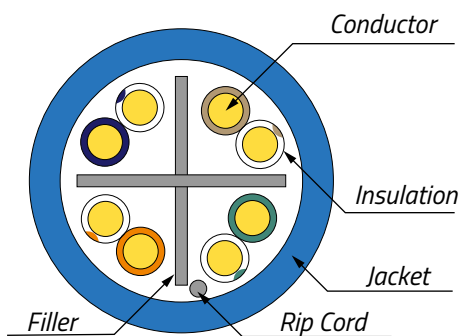
Applications

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

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Construction



CAT.6 U/UTP (Unshielded Twisted Pair) cable with 23AWG solid bare copper conductors. It features a PVC jacket for insulation and protection, along with a cross filler inside to maintain the organization of the twisted pairs and reduce interference. Additionally, it includes a rip cord for easier stripping of the outer jacket during installation 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 60°C
▶ Minimum bending radius	≥ 4 times of overall diameter
▶ Maximum pulling tension	≤ 110 N
▶ Temperature rating	75°C

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) ISO/IEC 11801-1 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 EU Directive 2006/95/EC (LVD)
CPR Class Eca	