

# UTP LSZH Cable - Cat 6A - 23AWG - 500MHz

MODEL: IKC-UTP-C6A-L



## Description & Features

- |                       |   |
|-----------------------|---|
| 01. Conductor:        | Material : 23AWG 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>1.10 \pm 0.02</math> mm</li><li>- Orange &amp; white/orange stripe : <math>1.06 \pm 0.02</math> mm</li><li>- Green &amp; white/green stripe : <math>1.08 \pm 0.02</math> mm</li><li>- Brown &amp; white/brown stripe : <math>1.05 \pm 0.02</math> mm</li></ul> |
| 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 : Low smoke zero halogen (LSZH)<br>Diameter : $8.3 \pm 0.30$ mm<br>Thickness : $1.10 \pm 0.10$ mm<br>Color : Per customer's request  |
| 08. Product Features: | High performance of single cable transmission.<br>Zigzag jacket design provides excellent performance of six around one bundle transmission.<br>Round and smooth jacket without twisted stripe.<br>High quality of safety property.<br>Sweep frequency up to 500 MHz.   |

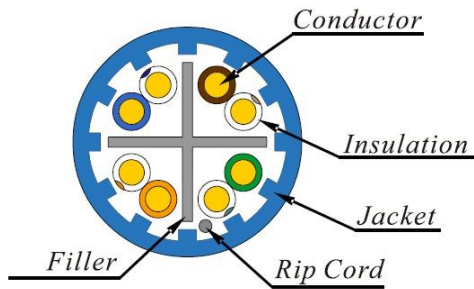
## Applications

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 10GBASE-T and legacy speeds.
- CDDI/ ATM/ Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

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## Construction



CAT.6A UTP (Unshielded Twisted Pair) LSZH 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 60° 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

## 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	≤ 4%
▶ 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 IEC 61034-1 / 61034-2 IEC 60754-2
▶ 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	