

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

MODEL: IKC-UTP-C6A

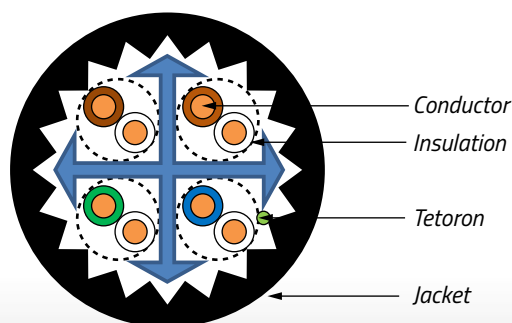
Description & Features

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|------------------------|--|
| 01. Conductor: | <ul style="list-style-type: none"> • Size : 23AWG • Type : Solid bare copper • Diameter (mm) : 0.56 ± 0.01 |
| 02. Insulation: | <ul style="list-style-type: none"> • Type : PE • Diameter (mm) : 1.03 ± 0.05 • Min. thickness (mm) : 0.21 |
| 03. Pairs: Color Code: | <ul style="list-style-type: none"> • Pair 1 - Blue / White – blue strip • Pair 2 - Orange / White – orange strip • Pair 3 - Green / White – green strip • Pair 4 - Brown / White – brown strip |
| 04. Central Element: | <ul style="list-style-type: none"> • Type : PE cross separator |
| 05. Jacket: | <ul style="list-style-type: none"> • Type : PVC • Overall Diameter (mm) : 8.3 ± 0.3 |

Applications

For horizontal network and voice application in a structured cabling system, including IEEE 802.3an: 10G Base-T Gigabit Ethernet, 2.4/1.2Gb/s ATM, digital video, broadband & baseband analog video.

Construction



Solid bare copper conductors insulated with thermoplastics polyolefin. Two insulated conductors twisted together. Four such pairs separated by cross filler. Outer Jacket with PVC compound

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Physical & Environmental Characteristics

▶ Cold bend test	-20 ± 2 X 4hrs no. crack	
▶ Dielectric strength	AC 1.7 KV for 2S.	
▶ Insulation	Before Aging	After aging
Min. Tension strength (psi)	2400	75% before aging (100 °C X 48hrs)
Min elongation (%)	300	75% before aging (100 °C X 48hrs)
▶ Jacket		
Min. Tension strength (psi)	2000	75% before aging (100 °C X 168hrs)
Min elongation (%)	100	50% before aging (100 °C X 168hrs)
▶ Min. bending radius (mm)	62	
▶ Max. pulling tension (lbs)	25	
▶ Installation temperature	-10 °C to + 60 °C	
▶ Operating temperature	-10 °C to + 60 °C	

Specifications

▶ Conductor resistance (Ω/100m @ 20 °C)	Max : 9.5
▶ DC resistance unbalance (%)	Max : 4
▶ Pair-to-ground capacitance unbalance (pF/km)	Max : 1600x
▶ Delay skew (ns/100m)	Max : 45 (4 ≤ f ≤ 500MHz)
▶ Insertion Loss (dB/100m)	Max : 1.82 *√f +0.0091 * f +0.25/√f (4 ≤ f ≤ 500MHz)
▶ Propagation Delay (ns/100m)	Max : 534 + 36 / √f (4 ≤ f ≤ 500MHz)
▶ Input Impedance (Ω)	100 ± 15% (1 ≤ f ≤ 250MHz) 100 ± 22% (250 < f ≤ 500MHz)

Standards & Certifications

▶ International	IEC 61156-5 edit 2.0
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