

U/UTP 4 Pairs cable

Short Description

High-performance Category 6 U/UTP installation cable designed for reliable data transmission in structured cabling systems. The cable features solid copper conductors, LSZH (Low Smoke Zero Halogen) jacket, and meets Cca fire classification, making it ideal for safe and efficient networking installations in commercial and residential buildings.

Properties

- **Category:** CAT6 U/UTP
- **Conductor:** Solid bare copper, AWG23
- **Insulation:** Polyethylene (PE)
- **Jacket Material:** LSZH (Low Smoke Zero Halogen)
- **Color:** White
- **Fire Class:** Cca – suitable for fixed installation in buildings requiring enhanced fire safety
- **Length:** 305 m (supplied in pull-out box)
- **Standards Compliance:** ISO/IEC 11801, EN 50173, ANSI/TIA-568
- **Performance:** 250 MHz bandwidth, suitable for Gigabit Ethernet and higher-speed data transmission
- **Packaging:** Spool for easy installation

Mechanical specifications

- **Conductor Diameter:** 0.57 mm (AWG23)
- **Cable Diameter:** ± 6.0 mm
- **Weight:** ± 8.5 kg per 305 m
- **Operating Temperature:** -20°C to $+60^{\circ}\text{C}$
- **Installation Temperature:** 0°C to $+50^{\circ}\text{C}$
- **Minimum Bending Radius:** $8 \times$ cable diameter
- **Installation Type:** Fixed installation in dry or humid environments, indoor use
- **Pulling Tension:** ≤ 110 N

Variations

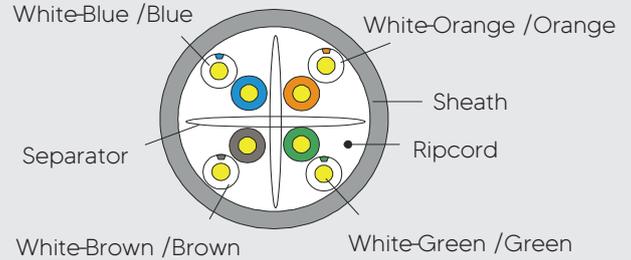
- 500-001 / D-INSTAKAB6C-500
CAT6 U/UTP Cca LSZH AWG23,
solid copper White, spool 500m



Connecting with quality!

Spécifications

Sheath Printing	TBD				
Customer No.		Customer Reference			
Category	U/UTP CAT6 -4P-LSZH (Cca)				
Reference Standard	ISO/IEC11801 , TIA -568-C.2				
Conductor	Material	SOLID -Bare Copper			
	Nom.O.D.(mm)	0.550	up	+0.005	
			down	-0.005	
Insulation	Material	HDPE			
	Diameter	0.97±0.08mm			
Filling	Plastic Separator: FRPE				
Sheath	Thickness	0.65±0.1 mm			
	External O.D.	6.3±0.4 mm			
	Surface	Clean, Frap, Satiation			
	Material	FR -LSZH (complies RoHS)			
	Color	TBD			
Surface Printing	Letter height	3.0±0.3mm			
	Color	Black			
	Print error & Space	≤±0.5%, 1m			
Core Color	1 White- Blue /Blue	2 White-Orange /Orange			
	3 White-Green /Green	4 White- Brown /Brown			
Packing	Drum				
Carton dimension	According to the requires				
Packing length	305± 1.5m				
Ripcord	Yes	Drain wire	No		
	Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥ 9.0	
		Elongation (%)	≥ 100		
Aging Period (°C× hrs)		100°C× 24h× 7d			
After Aging		Tensile Strength (Mpa)	≥ 8.0		
	Elongation (%)	≥ 70			
	Cold bend (-20± 2°C× 4h) 15x cable O.D. No visible cracks				
Electrical Characteristics (20)	1.0 -250.0MHz, Characteristic impedance (Ω)	100 ± 15			
	1.0 -250.0MHz, Delay Skew 20°C (ns/100m)	≤ 45			
	DC Resistance (Ω /100m) max	9.38			
	DC Conductor Resistance Unbalance (%) max	5.0			
Reaction to fire Classification : Cca,s1a,d1,a1				CPR Part no. TX G2401-190	
Version	A/02	Date	2024-01-10	Revised By	
				Audited By	
				Approved By	



Technical Performance:				
Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
1	20.0	2.03	74.3	570.00
4.0	23.0	3.78	65.3	552.00
8.0	24.5	5.32	60.8	546.73
10.0	25.0	5.95	59.3	545.38
16.0	25.0	7.55	56.2	543.00
20.0	25.0	8.47	54.8	542.05
25.0	24.3	9.51	53.3	541.20
31.25	23.6	10.67	51.9	540.44
62.5	21.5	15.38	47.7	538.55
100	20.1	19.80	44.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	58.8	49.7	46.7
10	57.3	47.8	44.8
16	54.2	43.7	40.7
20	52.8	41.8	38.8
25	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8