

## U/UTP 4 Pairs cable

### Short Description

High-quality Category 6 U/UTP installation cable with solid copper conductors, designed for reliable data transmission up to 250 MHz. Supplied in a 305 m pull-out box for easy installation, this cable meets Eca fire classification and is ideal for standard structured cabling in commercial and residential environments.

### Properties

- **Category:** CAT6 U/UTP
- **Conductor:** Solid bare copper, AWG23
- **Insulation:** Polyethylene (PE)
- **Jacket Material:** PVC
- **Color:** White
- **Fire Class:** Eca – suitable for fixed installations with basic fire safety requirements
- **Length:** 305 m (supplied in pull-out box)
- **Standards Compliance:** ISO/IEC 11801, EN 50173, ANSI/TIA-568
- **Performance:** 250 MHz bandwidth, supports Gigabit Ethernet
- **Packaging:** Pull box for smooth and tangle-free installation

### Mechanical specifications

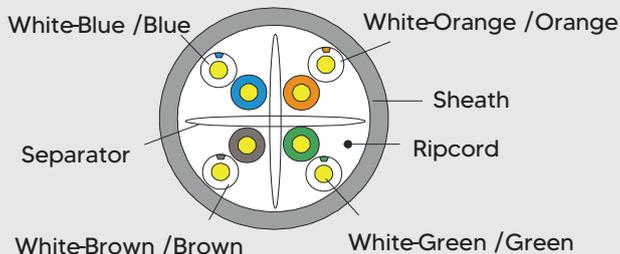
- **Conductor Diameter:** 0.57 mm (AWG23)
- **Cable Diameter:** ±6.0 mm
- **Weight:** ±8.0 kg per 305 m
- **Operating Temperature:** -20°C to +60°C
- **Installation Temperature:** 0°C to +50°C
- **Minimum Bending Radius:** 8 × cable diameter
- **Installation Type:** Fixed installation, indoor use
- **Pulling Tension:** ≤ 110 N



Connecting with quality!

# Spécifications

Sheath Printing	TBD								
Customer No.		Customer Reference							
Category	SD U/UTP CAT6-4P-LSZH (Eca)								
Reference Standard	ISO/IEC11801 , ANSI/TIA -568.2-D								
Conductor	Material	SOLID - Bare Copper							
	Nom.O.D. (mm)	0.550	<table border="1"> <tr> <td>up</td> <td>+0.005</td> </tr> <tr> <td>down</td> <td>-0.005</td> </tr> </table>		up	+0.005	down	-0.005	
up	+0.005								
down	-0.005								
Insulation	Material	HDPE							
	Diameter	0.97± 0.08mm							
Sheath	Thickness	0.50± 0.05 mm							
	External O.D.	5.8± 0.4 mm							
	Surface	Clean, Frap, Satiation							
	Material	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	Wooden Tray & Carton								
Carton dimension	According to the requires								
Packing length	(305+1.5)m								
Ripcord	Yes	Drain wire	No						
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0							
	Elongation(%)	≥125							
	Aging Period (°C×hrs)	100°C ×24h×7d							
	After Aging Tensile Strength(Mpa)	≥8.0							
Elongation(%)	≥100								
Cold bend(-20±2°C×4h)	8×Cable O.D. , No visible cracks								
Electrical Characteristics (20 )	1.0-250.0MHz Impedance (Ω)	100±15							
	1.0-250.0MHz Delay Skew (ns/100m)	≤45							
	DC Resistance (Ω/100m) max	9.38							
	DC Conductor Resistance Unbalance (%) max	5.0							
Reaction to fire Classification	: Eca								
CPR Part no. TX2015612									
Version	A/02	Date	2024-01-10	Revised By		Audited By		Approved By	



### Technical Performance (100m):

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