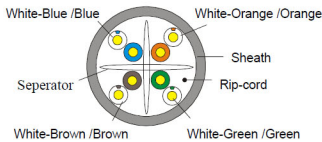


## CAT6 U/UTP 4 Pairs PVC Cable



### FEATURES

- Cables 4 pairs or 2 x 4 twisted pairs
- 100 ohms
- Blue RAL 5015
- Colour code TIA/EIA
- Length 305 m
- Supplied in cardboard box
- Weight 13 kg
- PVC sleeve
- Blue

### DIAGRAM & DESCRIPTION

OPTiLite category 6 U/UTP PVC cable is designed to deliver robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres. Cable performance is routinely verified by the independent testing laboratory 3P as part of an ongoing maintenance programme.

Our category 6 U/UTP PVC cable exceeds the minimum specified performance for category 6 U/UTP cables and support all class E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 100BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Sheath Printing	OPTiLite 4/23AWG (PVC / LSZH) ****m		
Category	U/UTP CAT6-4P-PVC		
Test Standard	ISO/IEC11801, TIA/EIA-568-C.2, YD/T1019		
Conductor	Material	SOLID-Bare Copper	
	Nom.O.D.(mm)	0.550	up +0.005 down -0.005
Insulation	Material	HDPE	
	Diameter	0.95±0.03mm	
Inner Screening Material	xxx	Drain wire	No
Outer Screening Material	xxx	Coverage	xxx
Sheath	Thickness	0.55 ± 0.05 mm	
	External O.D.	6.2 ± 0.4 mm	
	Surface	Clean, Frap, Satiation	
	Material	PVC (complies RoHS)	
	Color	According to the requires	
Surface Printing	Letter height	3.0 ± 0.3mm	
	Color	Black	
	Print error & Space	≤ ± 0.5%, 1m	
Core Color	White (Orange)/Orange	White (Blue)/Blue	
	White (Green)/Green	White (Brown)/Brown	
Packing	Wooden Tray & Carton		
Carton Dimension	40.5*40.5*21cm		
Packing length	305 ± 1.5m		
Rip-cord	Yes		
Sheath Physical Properties	Before Aging - Tensile Strength (Mpa)		≥13.5
	Elongation (%)		≥150
	Aging Period (°C×hrs) 100°C×24h×7d		
	After Aging Tensile Strength (Mpa)		≥12.5
Elongation (%)		≥125	
Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks			
Electrical Characteristics (20°C)	1.0-250.0MHz Impedance (Ω) 100±15		
	1.0-250.0MHz Delay Skew (ns/100m) ≤ 45		
	DC Resistance (Ω/100m) max 9.5		
	DC Conductor Resistance Unbalance (%) max 5.0		

TRANSMISSION PERFORMANCE (20°C, 100M)							
Frequency (MHz)	Attenuation (< dB)	ReturnLoss (> dB)	Next (> dB)	PS-NEXT (> dB)	ELFEXT (> dB)	PS-ELFEXT (> dB)	Propagation Delay (< ns)
1.0	2.03	20.0	74.3	72.3	67.8	64.8	570.0
4.0	3.78	23.0	65.3	63.3	55.8	52.8	552.0
8.0	5.32	24.5	60.8	58.8	49.7	46.7	546.73
10.0	5.95	25.0	59.3	57.3	47.8	44.8	545.38
16.0	7.55	25.0	56.2	54.2	43.7	40.7	543.0
20.0	8.47	25.0	54.8	52.8	41.8	38.8	542.05
25.0	9.51	24.3	53.3	41.3	39.8	36.8	541.2
31.25	10.67	23.6	51.9	49.9	37.9	34.9	540.44
62.5	15.38	21.5	47.7	45.4	31.9	28.9	538.55
100.0	19.8	20.1	44.3	42.3	27.8	24.8	537.6
200.0	28.98	18.0	39.8	37.8	21.8	18.8	536.54
250.0	32.85	17.3	38.3	36.3	19.8	16.8	536.27

### APPLICABLE STANDARDS

The category 6 U/UTP PVC cable is manufactured and tested directly in accordance with the major industry standards:

- ISO/IEC 11801 2<sup>nd</sup> Edition
- ANSI/TIA 568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-3-1

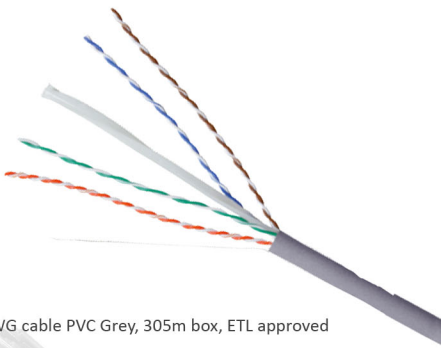
### FIRE PERFORMANCE

Category 6 U/UTP PVC cables exceed the requirements of:

- IEC 60332-1-2

### ORDERING INFORMATION

- **Description**  
Category 6 Unshielded Twisted Pair (U-UTP) 23 AWG cable PVC Grey, 305m box, ETL approved
- **Part Number**  
UTP6305G23-PVC



### System Warranty:

The OPTiLite Cabling System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited OPTiLite Partner who has designed, supplied and installed the said system.

