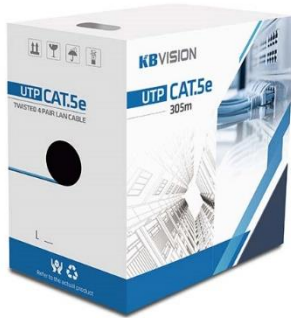


C5E1

UTP CAT5e Cable

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

- 305 m (1000 ft)/carton UTP CAT5e, power over Ethernet, compatible with one cable
- High-purity oxygen-free copper conductor
- Customized PVC outer sheath;



Conductor	
Material	Oxygen free copper (99.97% purity)
Diameter	0.45 mm ± 0.01 mm
Insulation	
Material	HDPE
Min. Average Thickness	0.18 mm
Diameter	0.81mm±0.1mm
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown
Rip Cord	
Material	Polyester
Specification	500D
Sheath	
Material	PVC
Min. Average Thickness	0.5 mm
Diameter	4.7 mm ± 0.3 mm
Color	White
Electrical	
Max. DC Resistance of a Single Conductor	12Ω/100 m
Min. Insulation Resistance	5000MΩ·km
Max. DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Dielectric Strength	No breakdown with 1KV DC for 1 min
Transmission	
Characteristic Impedance	100 ± 15Ω
Near End Cross Talk	≥35.30 dB/100 m@100 MHz
Max. Attenuation	24.2 dB/100 m@100 MHz
Return Loss	≥20.1 dB/100 m@100 MHz

Mechanical	
Tensile Strength	Sheath≥13.5 MPa, insulation≥16 MPa
Elongation at Break	Sheath≥150%, insulation≥300%
Installation Bending Radius	>8 times of outer cable diameter
Conductor Elongation at Break	≥10%
Environmental	
Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥12.5 MPa, ≥100%
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Installation Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature and Humidity	-10°C to +40°C (14°F to 104°F), <60% (RH)
Security	
Vertical Fire Propagation Test	Comply with IEC 60332-1-2
Packaging	
Cable Length	305.0 m (1000.66 ft) ± 1.5 m (4.92 ft)
Inner Carton Dimensions	364.0 mm × 364.0 mm × 216.0 mm (14.33" × 14.33" × 8.50") (L × W × H)
Packaging Method	305.0 m (1000.66 ft) a carton, one master carton with 2 inner cartons
Net Weight	≥7.0 kg (15.43 lb)
Gross Weight	≥8.0 kg (17.64 lb)

C5E1

UTP CAT5e Cable

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Transmission Characteristics (100 m at 20°C) (328.08 ft at 68°F)

Frequency (MHz)	Phase delay ≤ ns	IL ≤ dB	TCL ≥ dB*	EL TCTL ≥ dB*	NEXT ≥ dB	PS NEXT ≥ dB
1	n/s	n/s	50.0	35.0	n/s	n/s
4	552.0	4.5	44.0	23.0	56.3	53.3
8	547.0	6.4	41.0	16.9	51.8	48.8
10	545.0	7.2	40.0	15.0	50.3	47.3
16	543.0	9.0	38.0	10.9	47.2	44.2
20	542.0	10.2	37.0	9.0	45.8	42.8
25	541.0	11.4	36.0	7.0	44.3	41.3
30*	540.6	12.6	35.2	5.5	43.1	40.1
31.25	540.0	12.9	35.1	n/s	42.9	39.9
62.5	539.0	18.7	32.0	n/s	38.4	35.4
100	538.0	24.2	30.0	n/s	35.3	32.3
Frequency (MHz)	EL FEXT ≥ dB	PS EL FEXT ≥ dB	RL ≥ dB	Delay skew ≤ ns	Zc(Ω)	
1	n/s	n/s	n/s	n/s	n/s	
4	52.0	49.0	23.0	45.0	100±15	
8	45.9	42.9	24.5			
10	44.0	41.0	25.0			
16	39.9	36.9	25.0			
20	38.0	35.0	25.0			
25	36.0	33.0	24.3			
30*	34.5	31.5	23.8			
31.25	34.1	31.1	23.6			
62.5	28.1	25.1	21.5			
100	24.0	21.0	20.1			