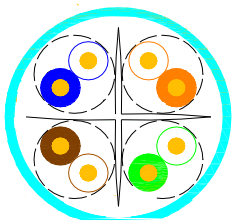
MD Location: 11399 Frederick Avenue, Beltsville, MD 20705
CA Location: 114600 Innovation Dr. Riverside, CA 92508

CAT6 UTP CMP UL (Made in USA)

Tel: (301) 836-1195
Mail: sales@bncables.com
URL: www.bncables.com

Cross Section



23 AWG Bare Copper Pairs

Insulation
FEP Spline

Conductor

Jacket

Standard Compliances

- UL Certified
- ANSI/TIA-568-C.2 CAT6
- ISO/IEC 2nd Edition 11801 Class E
- CENELEC EN 50173-1
- Retardancy verified according to NFPA-262
- RoHS compliance for EU Directive 2002/95/EC

Cable Description

1) Conductor:

Pairs	4
Total Conductor	8
AWG	23
Material Bare Copper	Bare Copper

2) Insulation:

Material	FEP
Nom. Thickness	0.22mm
AWG	23
Dia.	Φ 1.018±0.05mm

Color Cord	White/Blue & Blue White/Orange & Orange White/Green & Green White/Brown & Brown
Unaged Elongation	Min. 200%
Unaged Tensile Strength	Min. 1754Kgf/mm²

3) Outer Jacket: Fire Retardant PVC CMP

Thickness (Nominal)	0.5 mm
Diameter (Nominal)	6.3 mm
Unaged Elongation	Min. 100%
Unaged Tensile Strength	Min. 1754Kgf/mm² Aging
at 100°C for 168 Hrs:	
Min. Elongation retention:	50%
Min. tensile strength retention:	75%

4) Foot Marking:

CAT6 550MHz CMP PLENUM UTP 4-PAIR
23AWG EIA/TIA-568-C.2-1 0002FT-1000FT

Electrical Characteristics

1. Characteristic Impedance:	772kHz 102	102 Ω ± 20%
	1~550MHz	100 Ω ± 15%
2. Capacitance Unbalance:	Max. 160	pF/100m
3. Mutual Capacitance:	Max. 5600	pF/100m
4. Conductor Resistance:	Max. 9.38	Ω/100m@20°C
5. Resistance Unbalanced:	Max. 2%	
6. Insulation Resistance:	>5,000 MΩ·km	
7. Dielectric Strength:	2500 VDC/2 sec	

Frequency (MHz)	Max. Attenueation (dB/100m)	NEXT (dB,Min)	PS NEXT (dB,Min)
1	2.0	74.3	72.3
4	3.8	65.3	63.3
8	5.3	60.8	58.8
10	6.0	59.3	57.3
16	7.6	56.2	54.2
20	8.5	54.8	52.8
25	9.5	53.3	51.3
31.25	10.7	51.9	49.9
62.5	15.4	47.4	45.4
100	19.8	44.3	42.3
155	25.1	41.5	39.5
200	29.0	39.8	37.8
250	32.8	38.3	36.3
300	36.4	37.2	35.2
400	43.0	35.3	33.3
550	51.6	33.2	32.2