

iCAT-ITS® Category 6e 550MHz Cable



PART NUMBER: CBL-C6-550-CMP-WH-BU

CATEGORY: 6e U/UTP Cable, 4 Pair Count, Plenum, 1000 Feet (550MHz)

TEST STANDARD: ISO/IEC11801, TA-568-C.2, YD/T1019

CONDUCTOR

Material: SOLID-Bare Copper
Size: 23AWG

INSULATION

Material: FEP
Diameter: 0.95±0.03mm

CORE COLOR

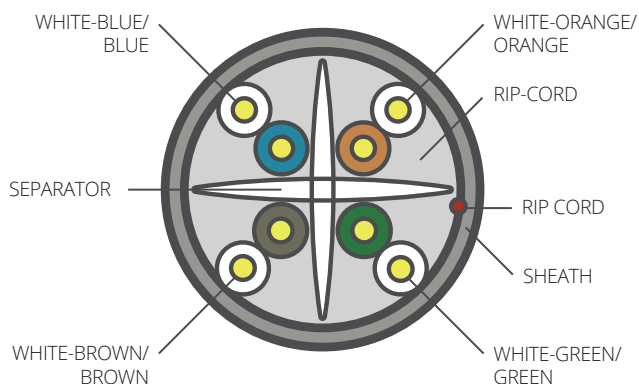
Core Color:
 1) White-Blue/Blue,
 2) White-Orange/Orange
 3) White-Green/Green
 4) White-Brown/Brown

SHEATH PROPERTIES

Thickness: 0.43±0.05mm
External O.D.: 5.6±0.4mm
Surface: Clean, Frap, Satiation
Material: PVC (complies RoHS), Plenum
Color: Multiple
Rip-Cord: Yes
Drain Wire: No
Before Aging: Tensile Strength (Mpa): ≥13.5
 Elongation (%): ≥150
Aging Period (°C x hrs) 100°C x 24hrs x 7d
After Aging: Tensile Strength (Mpa): ≥12.5
 Elongation (%): ≥125
 Cold Bend (-20±2°C x 4h): 8 x Cable O.D., No visible cracks

ELECTRICAL CHARACTERISTICS (20° C)

1.0-250MHz Impedance (Ω): 100±15
1.0-250MHz Delay Shew (ns/100m): ≤45
DC Resistance (Ω/100m) max: 9.38
DC Conductor Resistance
Unbalance (%) max: 5.0



TECHNICAL PERFORMANCE (100m)

Frequency (MHZ)	RL ≥dB	ATT ≤dB	NEXT ≤dB	DELAY ≤ns
1	20.0	2.1	74.3	570.0
4.0	23.0	3.8	65.3	552.0
8.0	24.5	5.3	60.8	546.7
10.0	25.0	5.9	59.3	545.4
16.0	25.0	7.5	56.2	543.0
20.0	25.0	8.4	54.8	542.1
25.0	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.5	21.5	15.0	47.4	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	536.5
350*	16.3	39.79	36.1	535.92
550*	12.6	61.7	33.2	535.5

Frequency (MHZ)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	72.3	67.8	64.8
4.0	63.3	55.8	52.8
8.0	58.8	49.7	46.7
10.0	57.3	47.8	44.8
16.0	54.2	43.7	40.7
20.0	52.8	41.8	38.8
25.0	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
350*	34.1	16.9	13.9
550*	31.2	13.2	10.1

NOTE: * are the reference values

