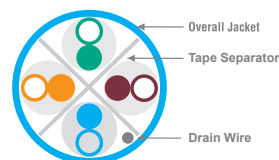


Cat 6E 550MHz UTP PVC Cable

Part Number: BC-C6EPVC-XX

XX=Available in black, blue, green, gray, red, white, yellow, and orange



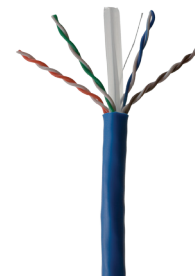
Specification

Fire Rating
C(ETL) listed
ETL Verified
ROHS Compliant

ETL Listed Type CMR
CMG FT4
TIA 568 C.2, & ISO/IEC 11801

Construction Materials

Conductor Material: Solid Bare Copper
Conductor Gauge: 23 AWG
Stranding: Solid
Insulation Material: Polyethylene
Shield Material: Unshielded
Jacket Material: Flame Retardant PVC



General Specification

Cable Type: Unshielded Twisted Pair (UTP)
Pairs, Quantity: 4
Jacket Color: Black | Blue | Green | Gray | Red | White | Yellow | Orange
Rip Cord: Yes
Conductor Gauge, Singles: 23 AWG
Conductor Type, Singles: Solid
Conductors, Quantity: 8
Insulation Overall Diameter ± 0.0002 in.: 1.016 mm | 0.040 in.
Insulation Average Wall Thickness: 0.223 mm | 0.0088 in.
Outer Jacket Average Wall Thickness: 0.584 mm | 0.023 in.
Outer Jacket Nom. O.D. ± 0.008 : 6.197 mm | 0.244 in.
Nominal Weight: 13.60 kg | 30 lbs.
Cable Length: 304.8 m | 1000 ft

Environmental Specifications

Temperature Rating: 0 °C to + 60 °C (32 °F to + 140 °F)
Operating Temperature: -20 °C to + 75 °C (-4 °F to + 167 °F)

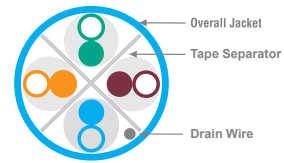
Mechanical Characteristics

Minimum Ben Radius: 55.88 mm | 2.2 in.
Maximum Pulling Force: 11.33 kg | 25 lbs
Tensile Strenth: Before ≥ 13.8 Mpa
Elongation: Aging $\geq 100\%$
Aging Condition: 100 °C x 168 Hours
After $\geq 85\%$ of Unaged
Aging $\geq 50\%$ of Unaged

Cat 6E 550MHz UTP PVC Cable

Part Number: BC-C6EPVC-XX

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Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	9.38 Ω/100 Meters
Maximum DC Resistance Unbalanced @ 20°C	5%
Maximum Pair-to-Pair Ground Capacitance Unbalanced	330 pF / 100 Meters
Characteristic Impedance (1 ~ 350 MHz)	100 ± 15 Ω
Mutual Capacitance	5.6 nF/100 Meters
Maximum Delay Skew	40 nS/100 Meters
Nominal Velocity of Propagation (NVP)	63%



Freq. (MHz)	Attenuation (dB/100M) Max.	Return Loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.	ELFEXT Min. (dB)	PS-ELFEXT Min. (dB)	ACR Min. (dB)	PS-ACR Min. (dB)
1	2.0	20.0	77.3	75.3	70.8	67.8	75.0	73.0
4	3.8	23.6	68.3	66.3	58.7	55.7	64.0	62.0
8	5.3	25.4	63.8	61.8	52.7	49.7	57.7	55.7
10	5.9	26.0	62.3	60.3	50.8	47.8	55.6	53.6
16	7.4	26.0	59.3	57.3	46.7	43.7	50.7	48.7
20	8.3	26.0	57.8	55.8	44.7	41.7	48.2	46.2
25	9.3	25.5	56.3	54.3	42.8	39.8	45.6	43.6
31.25	10.4	25.0	54.9	52.9	40.9	37.9	42.8	40.8
62.5	14.9	23.5	50.4	48.4	34.8	31.8	32.9	30.9
100	19.0	22.5	47.3	45.3	30.8	27.8	24.9	22.9
155	23.9	21.6	45.8	43.5	27.0	23.6	21.0	19.0
200	27.4	21.0	42.8	40.8	24.7	21.7	18.4	16.4
250	30.8	20.5	41.3	39.3	22.8	19.8	16.5	14.5
300	34.0	20.1	40.2	38.2	21.2	18.2	15.0	13.0
350	37.0	19.8	39.2	37.2	19.9	16.9	13.2	11.2
400	39.7	19.5	38.3	36.3	18.7	15.7	11.5	9.5
450	42.1	19.2	37.5	35.5	17.7	14.7	10.5	8.5
500	44.9	19.0	36.8	34.8	16.8	13.8	9.5	7.5
550	47.3	18.8	36.2	34.2	15.9	12.9	8.5	6.5

* Values above 250 MHz are information only