

CATEGORY 6 CABLE

ELECTRICAL CHARACTERISTICS

Impedance (1 ~ 250 MHz): 100 ± 15 Ohms
 Nominal Mutual Capacitance @ 1 KHz: 15 pf/foot
 Nominal Velocity of Propagation: 70%
 Maximum Delay Skew: <.45 ns/100m
 Maximum DCR Unbalance @ 20° C: <.5%
 Maximum Conductor DC Resistance @ 20° C: 9.5 Ohms/100m
 Maximum Operating Voltage - UL: 300 V RMS
 All the Cat6 certified to 250 MHz, swept to 500 MHz

CONSTRUCTION CHARACTERISTICS

EIA/TIA: 568-B.2.1
 ISO: 11801 Class E
 Number of Pairs: 4
 Total Number of Conductors: 8
 AWG: 23 (.5 mm ± .01)
 Conductor Stranding: Solid
 Conductor Material: BC-Bare Copper
 Insulation Material: HDPE
 Outer Jacket O.D.: .256" (6.5 mm)
 Outer Jacket Material: FR-PVC
 Outer Jacket Ripcord: Yes
 Shipping Weight: 33 lbs./1,000 ft.
 Max. Recommended Pulling Tension: 38 lbs.
 Min. Bend Radius (Install): 1.0" (2.5 cm)
 Operating Temperature Range: -20°C to + 75°C
 Footage Markers: 0-1,000 ft.
 UL/ETL Flame: UL 1581 CM

COLOR CODE

PVCAT6 is also offered in the following colors:

BLK GRY WHT RED GRN

DIMENSIONS

Width: 15.94 in.
 Height: 8.27 in.
 Depth: 15.94 in.
 Weight: 30.86 lbs.

PALLET

Width: 33.07 in.
 Height: 87.80 in.
 Depth: 44.88 in.
 Weight: 1,587.00 lbs.
 Quantity: 50 Boxes



| Frequency (MHz) | Return Loss (Min. dB) | Attenuation (Max. dB/100m) | NEXT (Min. dB) | PSNEXT (Min dB/100m) | ELFEXT (Min dB/100m) | PSELFEXT (Min dB) |
|-----------------|-----------------------|----------------------------|----------------|----------------------|----------------------|-------------------|
| 1 | 20.0 | 2.2 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 4.1 | 65.3 | 63.3 | 55.8 | 52.7 |
| 10 | 25.0 | 6.3 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.8 | 56.2 | 54.3 | 43.7 | 40.7 |
| 20 | 25.0 | 8.7 | 54.8 | 52.8 | 41.8 | 28.8 |
| 31.25 | 23.6 | 10.9 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.5 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.9 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 39.8 | 31.8 | 21.8 | 18.8 |
| 250 | 17.3 | 32.8 | 38.3 | 36.3 | 19.8 | 16.8 |