

Products

PowerCat 6 4 Pair PVC Alloy Cable, White, CMP Plenum Rated, 305m Box



Part No: CAA-0181P-02

Region: Americas

Molex Category 6 Cable is a premium Category 6 cabling solution designed for Gigabit Ethernet support.

Features & Benefits

- Full duplex operation capable over four cable pairs
- Documented balance characteristics (LCL, TCTL)
- ETL verified to ANSI/TIA/EIA-568-B.2-1 Category 6 standard gigabit
- 1000 foot to 0 foot markers
- Specified and tested to 500 MHz

Technical Info

Technical Data Physical

Conductor diameter- in. (mm): .022(0.56)

Cable diameter- in. (mm): .210(5.4)

Nominal cable weight- lb./kft. (kg/km): 27 (40)

Max installation tension-lb. (N): 25 (110)

Min. bend radius-in. (mm): 1.0 (25.4)

Parametric Measurements

Mutual Capacitance: 4.4nF/100 m nom.

DC resistance: 9.38 Ohms/100 m max.

Skew: 25ns/100m nom.

Pair to ground Unbalance: 330pF/100 m max

Nominal Velocity of Propagation (NVP): 72%

Input Impedance (Ohms): 100Ω±13% 0.772-100Mhz

100Ω±[13+15log(F/100)] 100-500 Mhz

Performance

Crosstalk (dB)

@ 1MHz: 75.3 min. 84 typical

Insertion Loss (dB/100m)

@ 1MHz: 2.0 max. 1.7 typical

@ 16MHz: 7.5 max. 7.3 typical

@ 100MHz: 19.7 max. 19.1 typical

PS NEXT

@ 1MHz: 73.3 min. 81 typical

@ 16MHz: 55.3 min. 63 typical

@ 100MHz: 43.3 min. 51 typical

ELFEXT

@ 1MHz: 68.8 min. 83.0 typical

@ 16MHz: 44.7 min. 59.0 typical

@ 100MHz: 28.8 min. 43.0 typical

PS ELFEXT

@ 1MHz: 65.8 min. 80.0 typical

@ 16MHz: 41.7 min. 56.0 typical

@ 100MHz: 25.8 min. 40.0 typical

Return Loss

@ 1MHz: 20.0 min. 33.7 typical

@ 16MHz: 26.0 min. 31.9 typical

@ 100MHz: 22.5 min. 31.1 typical

ACR (dB)

@ 1MHz: 73.3 min. 82 typical

@ 16MHz: 49.8 min. 59 typical

@ 100MHz: 25.3 min. 35 typical

Ordering Info