

# Category 3

Part Number: Plenum3504/Non-Plenum35N4

4 Twisted Pair Cable

Plenum: ETL Type CMP C(ETL) CMP

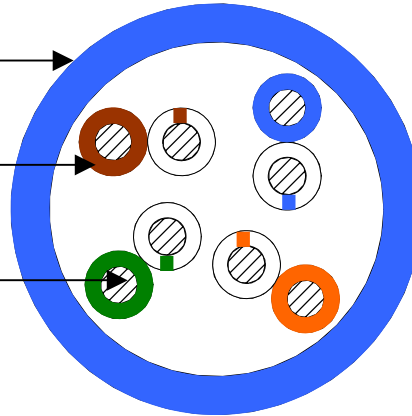
Non-Plenum: ETL Type CMR, C(ETL) CMG

### 4 Twisted Pair Cable

**Outer Jacket**  
 Plenum: CommFlex  
 Non-Plenum: PVC

**Pair Insulation**  
 Plenum: PVC  
 Non-Plenum: PE

24 AWG Solid Copper



#### Pair Identification

|        |   |
|--------|---|
| Pair 1 | Blue/White w/Coextruded Blue Stripe on White Single     |
| Pair 2 | Orange/White w/Coextruded Orange Stripe on White Single |
| Pair 3 | Green/White w/Coextruded Green Stripe on White Single   |
| Pair 4 | Brown/White w/Coextruded Brown Stripe on White Single   |

| Mechanical Specification      | Plenum        | Non-Plenum |
|-------------------------------|---------------|------------|
| Nominal Jacket OD             | 0.186"        | 0.175"     |
| Nominal Jacket Thickness      | 0.014"        | 0.018"     |
| Jacket Minimum Spot Thickness | 0.011"        | 0.013"     |
| Installation Temperature      | 0°C to 60°C   |            |
| Operation Temperature         | -20°C to 60°C |            |

Available Packaging: Box or Reel

Available Colors: White, Blue, Yellow, Green, Purple, Pink and Gray



1100 CommScope Place SE  
PO Box 1729  
Hickory, NC 28603-1729

(800) 982-1708  
(828) 324-2200

Fax: (828) 328-3400  
Int'l Fax: (828) 323-4989

www.commscope.com



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## Electrical Performance

| Frequency<br>MHz | Attenuation<br>(dB/100m)  | Near End Cross Talk<br>(dB) | Structural Return<br>Loss (dB) |
|------------------|---------------------------|-----------------------------|--------------------------------|
|                  | EIA/TIA 568<br>Category 3 | EIA/TIA 568<br>Category 3   |                                |
| .772             | 2.2                       | 43                          | NA                             |
| 1.0              | 2.6                       | 41                          | 12                             |
| 4.0              | 5.6                       | 32                          | 12                             |
| 8.0              | 8.5                       | 27                          | 12                             |
| 10.0             | 9.7                       | 26                          | 12                             |
| 16.0             | 13.1                      | 23                          | 10                             |

(All tests include swept frequency measurements)

|                                   |   |   |
|-----------------------------------|---|---|
| Structural Return Loss            | $\geq 12$<br>$\geq 12 - 10 \log(\text{freq}/10)$        | $1 \leq \text{freq} \leq 10$<br>$10 \leq \text{freq} \leq 16$ |
| Near End Cross-Talk               | $\geq 43 - 15 \log(\text{freq}/0.772)$                  | $0.772 \leq \text{freq} \leq 16$                              |
| Attenuation                       | $\leq 2.320 * \sqrt{\text{freq}} + 0.238 * \text{freq}$ | $0.772 \leq \text{freq} \leq 16$                              |
| Characteristic Impedance          | 100 ohms $\pm$ 15%                                      |   |
| Capacitance                       | 20 pf/ft nominal  |   |
| DC Resistance/Unbalance           | 28.6 ohms/1000' Max/5% Max                              |   |
| Dielectric Breakdown              | 2500 Volts DC Conductor to Conductor                    |   |
| Nom. Velocity of Propagation, NVP | 62% Plenum<br>71% Non-Plenum                            |   |



Drawings not to Scale  
Specifications subject to change  
Revision: 06/01/06