

Enhanced Category 6 Data Cables

23AWG. UTP with UV-Resistant PVC

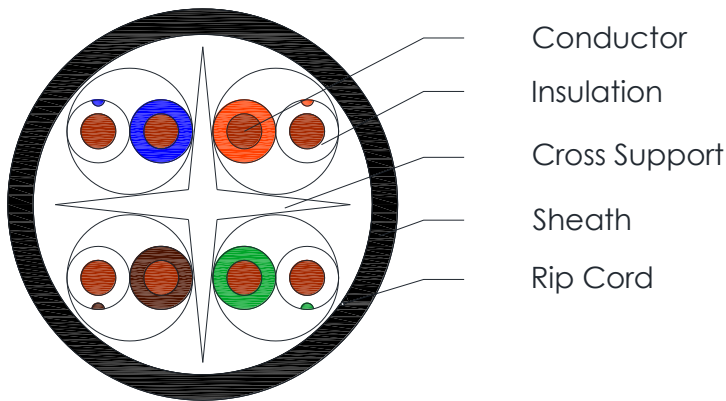


CI 4008

Applications

Twisted pair cable suitable for Local Area Networks and Video Applications delivering 1000base-t Gigabit Ethernet, 100BASE-TX Fast Ethernet, 622 Mbps ATM, 155 Mbps ATM and Composite Video.

Cross Section Drawing



Design

| Unit | Properties |
|------------------------|--|
| Conductor | Solid Plain Copper Wire |
| Insulation | Solid Polyethylene Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN |
| Pair | Two wires twisted together |
| Filler | Cross support |
| Rip Cord | Nylon Yarn |
| Sheath Material | UV-Resistant Polyvinyl Chloride (PVC) Standard Color: Black |
| Standard Put Up Length | 305 metres |

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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C14008

Physical Characteristics

| Part Number | C14008 |
|-----------------------------------|------------|
| Screen type | UTP |
| No. of Pairs | 4 |
| Conductor Size (AMG) | 23 |
| Nom. Radial Thickness Sheath (mm) | 0.5 |
| Nom. Overall Diameter (mm) | 6.1 |
| Operating Temperature (°C) | -20 to +75 |
| Min. Bend Radius (install) (mm) | 61 |
| Nominal Cable Weight (kg/km) | 40.5 |
| Maximum Pulling Tension (Newton) | 160 |

Electrical Characteristics at 20°C

| Conductor Resistance (Ohm/100m) | Mutual Capacitance (pF/m) | | Input Impedance (Ohm) | Velocity of Propagation (%) | Maximum Delay Skew (ns/100m) | Max. Operating Voltage (Volts RMS) |
|---------------------------------|---------------------------|-----|-----------------------|-----------------------------|------------------------------|------------------------------------|
| | UTP | FTP | | | | |
| 9.38 | 47 | 48 | 100 ± 15 | 67 | 45 | 300 |

| Frequency (MHz) | Return Loss (dB/100m) | Maximum Attenuation (dB/100m) | Minimum NEXT (dB) | Maximum Time Delay (ns/100m) | Minimum PSNEXT (dB) | Minimum ELFEXT (dB) | Minimum PSELFEXT (dB) |
|-----------------|-----------------------|-------------------------------|-------------------|------------------------------|---------------------|---------------------|-----------------------|
| 1 | 20.0 | 2.0 | 74.3 | 570.00 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 65.3 | 552.00 | 63.3 | 55.8 | 52.8 |
| 8 | 24.5 | 5.3 | 60.8 | 546.73 | 58.8 | 49.7 | 46.7 |
| 10 | 25.0 | 6.0 | 59.3 | 545.38 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.6 | 56.2 | 543.00 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.5 | 54.8 | 542.05 | 52.8 | 41.8 | 38.8 |
| 25 | 24.3 | 9.5 | 53.3 | 541.20 | 51.3 | 39.8 | 36.8 |
| 31.25 | 23.6 | 10.7 | 51.9 | 540.44 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.4 | 47.4 | 538.55 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.8 | 44.3 | 537.80 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 39.8 | 536.54 | 37.8 | 21.8 | 18.8 |
| 250 | 17.3 | 32.8 | 38.3 | 536.27 | 36.3 | 19.8 | 16.8 |
| 350 | 16.3 | 39.8 | 36.1 | 536.00 | 34.1 | 16.9 | 13.9 |

Reference Standards

| | |
|---------------------|-----------------|
| EN 50290-2 | IEC 60332-1 |
| ISO 11801 | RoHS directives |
| ANSI/TIA/EIA-568-C2 | |