

# Category 6 Data Cables

## 23AWG. F-UTP with PVC Sheath

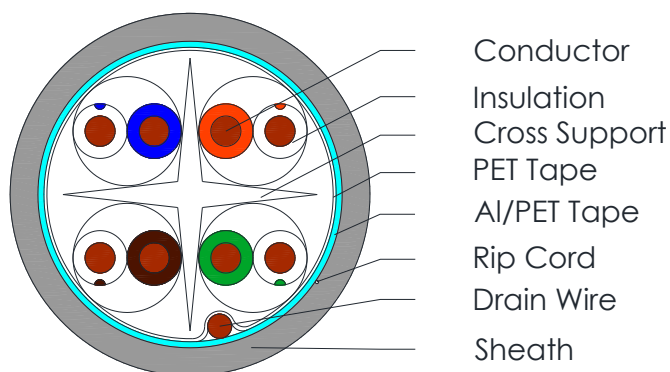


C4373

### 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<br>Pair 1: WHITE/Blue + BLUE<br>Pair 2: WHITE/Orange + ORANGE<br>Pair 3: WHITE/Green + GREEN<br>Pair 4: WHITE/Brown + BROWN |
| Pair                   | Two wires twisted together   |
| Filler                 | Cross support  |
| Wrapping Tape          | PET Tape   |
| Drain Wire             | Tinned Copper wire   |
| Screen                 | Aluminium/Polyester tape   |
| Rip Cord               | Nylon Yarn   |
| Sheath Material        | Polyvinyl Chloride (PVC)<br>Standard Color: Grey   |
| 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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#### Physical Characteristics

| Part Number                       | C4373      |
|-----------------------------------|------------|
| Screen type                       | FTP        |
| No. of Pairs                      | 4          |
| Conductor Size (AMG)              | 23         |
| Drain Wire Size (AMG)             | 26         |
| Screen Coverage (%)               | 115        |
| Nom. Radial Thickness Sheath (mm) | 0.5        |
| Nom. Overall Diameter (mm)        | 7.2        |
| Operating Temperature (°C)        | -20 to +60 |
| Min. Bend Radius (install) (mm)   | 72         |
| Nominal Cable Weight (kg/km)      | 56         |
| Maximum Pulling Tension (Newton)  | 200        |

#### 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) |
|---------------------------------|---------------------------|-----------------------|-----------------------------|------------------------------|------------------------------------|
| 9.38                            | 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                  |

#### Reference Standards

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