

# Cat5e UTP Patch Cables

Ideal for 1000Base-T Copper Cabling Solution



## Overview

Cat5e network patch cable is the cost-effective solution for data center applications. Design for computers, hubs, switches, routers, DSL/cable modems and patch panels in Gigabit datacenter applications. With fast transmission and excellent signal quality, it ensures peak performance through your LAN.

## Application

- Rated for any 1000Base-T Ethernet.
- Perfect for data center and SMB applications.
- Ideal for switches, servers, patch panels, or other equipment.

## Key Features

- Protected by CM-rated PVC jacket
- Stranded Pure Bare Copper
- RJ45 Plugs with 50 Microinches Gold-plated Connectors
- Snagless Design Protects Clips When Plugging and Unplugging
- Multiple Colors and Lengths Helps Simplify Complicated Cable Runs
- 4 Twisted Pairs and Cross Separator Reduce Crosstalk, Noise and Interference
- Tested with a Fluke DSX-8000 Versiv CableAnalyzer
- CE, Reach, RoHS Certified

## Specification

### Product Type

**Shielding Type**

Unshielded (U/UTP)

**Termination End**

RJ45 Plug

**Reference Standard**

ISO/IEC 11801, ANSI/TIA-568-C.2

### Conductor

**Conductor Type**

Stranded

**Conductor Material**

Pure Bare Copper

**Wire Gauge (AWG)**

24 (7/0.20mm)

**Conductor Qty.**

4 Twisted Pairs

### Insulation

**Insulation Material**

HDPE

**Insulation Diameter (mm)**

0.97 ± 0.05

**Core Color**

A. Orange, White-Orange,  
 B. Blue, White-Blue,  
 C. Green, White-Green,  
 D. Brown, White-Brown

### Sheath

**Material**

PVC (Complies RoHS), CM

**Thickness (mm)**

0.55 ± 0.05

**Outer O.D. (mm)**

5.5 ± 0.4

**Color**

Blue/Black/Gray/Red/  
 Green/Yellow/White/Purple

**Surface**

Clean, Frap, Satiation

## Specification

### Electrical Characteristics (20 °C)

<b>Data Rate Support</b>	1000Base-T
<b>Standard Bandwidth (MHz)</b>	100
<b>Reference Bandwidth (MHz)</b>	350
<b>1-100MHz, Characteristic Impedance (<math>\Omega</math>)</b>	$100 \pm 15$
<b>1-100MHz, Delay Skew (ns/100m)</b>	$\leq 45$
<b>Max. DC Resistance 20°C (<math>\Omega</math>/100m)</b>	9.5

### Mechanical Characteristics

<b>Before Aging Tensile Strength (Mpa)</b>	$\geq 13.5$
<b>Before Aging Elongation (%)</b>	$\geq 150$
<b>Aging Period (<math>^{\circ}\text{C}\times\text{hrs}</math>)</b>	$100^{\circ}\text{C}\times 24\text{h}\times 7\text{d}$
<b>After Aging Tensile Strength (Mpa)</b>	$\geq 12.5$
<b>After Aging Elongation (%)</b>	$\geq 125$
<b>Cold Bend (<math>-20\pm 2^{\circ}\text{C}\times 4\text{h}</math>)</b>	No Visible Cracks
<b>Min. Bend Radius (cm)</b>	$3.85 \pm 0.3$

### Surface Printing

<b>Letter Height (mm)</b>	$3.0 \pm 0.3$
<b>Color</b>	Black

### Others

<b>Rip Cord</b>	Yes
<b>Drain Wire</b>	No



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