

# CAT5e Ethernet Flexible Data Cable

This high-speed data cable is suitable for cabling systems in cloud computing centers, computer rooms, and factories. It is designed for use in LANs such as IEEE 802.3 10 Base-T, 100 Base-T, and 1000 Base-T, and can also be utilized in industrial settings.



## Overview

### High-Performance CAT5e Connectivity

This CAT5e Ethernet cable is engineered for flexible and reliable data transmission in demanding networking environments. It supports signal transmission up to 100MHz and features robust construction options including PVC and LSZH jackets to suit various installation requirements. With excellent resistance to external EMI, especially in shielded configurations, it ensures high signal integrity for critical B2B applications.

## Electrical Characteristics

### Test Voltage

**1000 V**

Test Voltage

### Characteristic Impedance

100  $\Omega$

### Insulation Resistance

e6@m

## Temperature Ratings

### Fixed Application Temperature

| Material   | Range        |
|------------|--------------|
| PVC        | -20°C ~ 70°C |
| LSZH / PUR | -40°C ~ 80°C |

### Occasional Movement Temperature

| Material   | Range       |
|------------|-------------|
| PVC        | -5°C ~ 60°C |
| LSZH / PUR | -5°C ~ 70°C |

## Mechanical Specifications

### Minimum Bending Radius

- Fixed Application: 8D (D = cable diameter)
- Occasional Movement: 15D (D = cable diameter)

## Construction

### Shielding Options

U/UTP (Unshielded) • F/UTP (AL/Mylar Screen) • SF/UTP (Screen + Tinned Copper Braid)

### Materials

Solid Bare Copper, PE Insulation, PVC Jacket, LSZH Jacket

## Compliance & Features

### Key Features

- Flame resistance according to IEC60332-1
- Excellent EMI resistance (especially SF/UTP)
- Transmission frequency up to 100MHz

### Reference Standards

IEC61156-5, ANSI/TIA-568-C.2, EN50173, ISO/IEC11801