

CAT6A Ethernet Flex Cable

This cable is used as a high-speed data cable in cabling systems for cloud computing centers, computer rooms, and factories. It is suitable for flexible applications in cabling systems for machines, equipment, instruments, and control cabinets.



Product Overview

High-Performance CAT6A Flex Cable

This CAT6A Ethernet Flex Cable is engineered for reliable, high-speed data transmission in demanding network environments. Designed to support frequencies up to 500MHz, it features superior shielding options to minimize external EMI interference. With flexible jacket options including PVC, LSZH, and PUR, this cable is suitable for both fixed installations and applications requiring occasional movement.

Technical Specifications

Transmission Frequency

500 MHz
Max Frequency

Electrical Characteristics

Parameter	Value
Test Voltage	1000V / min (DC)
Characteristic Impedance	100±15Ω @ 100MHz
Insulation Resistance	e6@m

Minimum Bending Radius

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

Environmental Performance

Temperature Range (Fixed)

Jacket Type	Temp Range
PVC	-20°C ~ 70°C
LSZH / PUR	-40°C ~ 80°C

Temperature Range (Movement)

Jacket Type	Temp Range
PVC	-5°C ~ 60°C
LSZH / PUR	-5°C ~ 70°C

Construction & Materials

Construction Components

- Conductor: Stranded bare copper
- Insulation: Foamed PE
- Shielding: U/FTP, F/FTP, or S/FTP configurations available
- Jacket: PVC, LSZH, or PUR

Available Jacket Color

Yellow

Compliance & Standards

Key Features

- Flame resistance compliant with IEC60332-1
- Excellent resistance to external EMI (especially S/FTP version)
- PUR jacket offers superior oil and abrasion resistance

Reference Standards

IEC61156-5, ANSI/TIA-568-C.2, EN50173, ISO/IEC11801, IEC60332-1