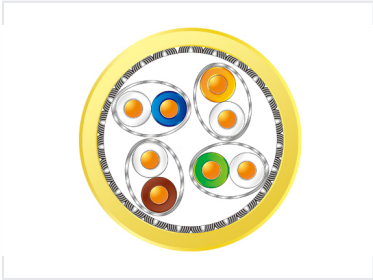


# CAT7 Ethernet Flexible Data Cable

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 of machines, equipment, instruments, and control cabinets.



## Overview

### High-Performance CAT7 Networking

This flexible CAT7 Ethernet data cable is engineered for demanding networking environments requiring high bandwidth and signal stability. Featuring advanced shielding with both AL/Mylar individual screens and tinned copper overall braiding, it provides excellent protection against external EMI. Available in durable jacket options including PVC, LSZH, and PUR, this cable is suitable for both fixed and flexible applications.

## Performance Metrics

### Transmission Frequency

**600 MHz**

Max Frequency

Characteristic Impedance	100 $\Omega$
Insulation Resistance	$e6 @ m$
Test Voltage	1000V / min (DC)

## Construction

### Materials

- Conductor: Stranded bare copper
- Insulation: Foamed PE
- Shield: AL/Mylar individual screen and tinned copper wire overall braid
- Jacket Options: PVC, LSZH, PUR

Jacket Color	Yellow
Key Features	Flame resistant (IEC60332-1), EMI resistant, Oil resistant (PUR jacket), Abrasion resistant (PUR jacket)

## Operational Limits

### Temperature Range

Application Type	PVC Range	LSZH / PUR Range
Fixed	-20°C ~ 70°C	-40°C ~ 80°C
Occasional Movement	-5°C ~ 60°C	-5°C ~ 70°C

### Minimum Bending Radius

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

## Compliance

### Reference Standards

IEC61156-5 • EN50173 • ISO / IEC11801