

# CAT5e RJ45 to RJ45 Ethernet Cable Assembly

This CAT5e patch cord is designed for automation technology and industrial environments. It facilitates external interconnection of electronic equipment and can be integrated into EtherCAT, EtherNet/IP, and CC-link IE systems.



## Overview

### High-Performance CAT5e Connectivity

This CAT5e RJ45 to RJ45 Ethernet cable assembly is engineered for reliable, high-speed data transmission in demanding environments. Featuring flexible ultra-fine stranded copper conductors and robust shielding, it offers excellent resistance to external electromagnetic interference (EMI). With a drag chain rating of over 10 million cycles and flame-resistant construction, this cable is a durable solution for both fixed and mobile industrial networking applications.

## Technical Specifications

Characteristic Impedance	100 $\Omega$
Protection Classification	IP20
Reference Standards	ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 60332-1

## Temperature Range

Fixed Application	-40°C to 80°C
Mobile Application (PVC)	-5°C to 70°C
Mobile Application (PUR)	-20°C to 80°C

## Mechanical Properties

### Minimum Bending Radius

- Fixed application: 5D (D=cable diameter)
- Mobile application: 10D (D=cable diameter)

### Drag Chain Performance

**10000000 times**

Minimum Cycles

## Construction

### Construction Details

Component	Specification
Conductor	Flexible ultra-fine stranded copper (IEC 60228/VDE 0295 class 6)
Insulation	PE
Shielding	Tinned copper braiding
Jacket Material	PVC or PUR
Connector Type	Shielded RJ45 (both ends)

## Features

### Key Benefits

Flame Resistant • EMI Resistant • Flexible • Gigabit Compatible