

# 10 Gigabit Ethernet Cable for Machine Vision

This cable supports 10 Gigabit Ethernet and is designed for machine vision systems and industrial cameras. Its flexible 3D motion design makes it suitable for data transmission on robot arms.



## Product Overview

### High-Performance Ethernet Solution

This 10 Gigabit Ethernet cable is engineered specifically for machine vision applications, offering superior performance in demanding industrial environments. Featuring a robust construction with high-coverage shielding and oil-resistant PUR sheathing, it ensures reliable signal integrity even in the presence of electromagnetic interference. Designed for longevity, this cable supports over 5 million bending cycles, making it an ideal choice for dynamic automation systems.

## Technical Specifications

### Performance Metrics

**10 Gbps**

Data Rate

**100 Ω**

Characteristic Impedance

**5000000 cycles**

Bending Cycles

### Temperature Range

Installation Type	Range
Fixed	-40°C to 80°C
Mobile	-5°C to 80°C

### Minimum Bending Radius

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

## Construction & Materials

### Chemical Resistance

Oil-resistant • Acid-resistant • Alkali-resistant

Cable Construction	Stranded Copper, PE Insulation, Tinned Copper Braid Shield, PUR Sheath
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## Connectivity

### Connector Configuration

- RJ45 (All-metal)
- M12 X-code (All-metal)

### Protection Rating

**20 IP**

RJ45 IP Rating

**67 IP**

M12 IP Rating

## Compliance

### Reference Standards

ANSI/TIA-568-C.2