

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