

# CAT8 Shielded Ethernet Module

This CAT8 module features tool-free termination for convenient and fast installation. The shell is 360° shielded to ensure optimal performance.



## Overview

### High-Performance CAT8 Connectivity

The CAT8 Shielded Ethernet Module is a high-performance connectivity solution designed for demanding network environments, supporting data transfer rates up to 40 Gbps and bandwidths up to 2 GHz. It features robust shielding to minimize electromagnetic interference (EMI) and crosstalk, ensuring reliable and stable connections in data centers and enterprise networks. Built with durable materials like phosphor bronze and UL 94V-0 compliant plastics, this module is engineered to withstand frequent use and provide long-lasting performance.

## Standards & Compliance

### Reference Standards

YD/T 926.3, IEC 60603-7, ANSI/TIA-568.2-D, ISO/IEC 11801

## Materials

### Material Composition

Component	Material Details
PIN	Phosphor bronze, 50 ½gold plated
IDC Reed	Phosphor bronze, tinned 200 ½"
Plastic Parts	ABS+PC, UL 94V-0 compliant

## Physical Parameters

### Durability Metrics

**1000 cycles**

Plug Life

**250 cycles**

Wiring Life

### Operating Environment

- Working temperature: -10 °C to 60 °C
- Storage temperature: -40 °C to 60 °C
- Relative humidity: 10% to 90%

## Electrical Parameters

### Electrical Specifications

Parameter	Value
Insulation Resistance	e 500M $\text{\textcircled{C}}$
Withstand Voltage	1000 VAC
DC Current	1.5 Amps
DC Resistance	d 100m $\text{\textcircled{C}}$
Contact Resistance	d 20m $\text{\textcircled{C}}$