

# Shielded CAT6A Ethernet Outlet

This shielded CAT6A outlet supports 10Gbps Ethernet applications. It features a 360° shielded shell and optimized PCB design for enhanced performance and signal integrity.



## Overview

### High-Performance Shielded CAT6A Connectivity

This Shielded CAT6A Ethernet Outlet is engineered for environments where signal integrity is paramount, such as data centers and industrial settings. It features robust construction with a stainless steel shielding shell and zinc alloy module outer layer to effectively minimize electromagnetic and radio frequency interference. Designed for reliability, this outlet supports demanding high-speed network applications while ensuring easy installation.

## Materials & Construction

### Material Composition

Component	Material
Plastic Part	ABS (UL94V-0)
Shielding Shell	Stainless Steel
Module Outer Layer	Zinc Alloy
Front Contact	Phosphor Bronze (50% Gold-plated)
IDC Clamping Part	Nickel-plated Phosphor Bronze

## Physical Parameters

### Durability & Lifecycle

**750 Cycles**

Plug Life

**200 Cycles**

Wiring Life (Unshielded)

**30 Cycles**

Wiring Life (Shielded)

Compatible Wire Gauge

22-24 AWG Solid Conductor

## Environmental Conditions

Operating Temperature	-10°C to 60°C
Storage Temperature	-40°C to 68°C
Relative Humidity	10% - 90%

## Electrical Parameters

### Key Electrical Specifications

- Insulation Resistance: 500m $\Omega$
- Pressure Resistance: 1000VAC
- Current Rating: 1.5 Amps
- DC Resistance: 0.1 $\Omega$
- Contact Resistance: 20m $\Omega$