

7894 - Fiber-optic ethernet converter set

Our 7894 - Fiber-optic Ethernet converter set offers a shielded-room feedthrough for high-speed RS232C/Ethernet/ UTP communication links. The Ethernet fiber Media Converter is used to convert a RS232C/10/100Base-T signal to a 10/100Base/RS232C optical signal, so you can use your internet connection or for example your video-camera connection inside or outside the Faraday cage while maintaining over 140dB of room attenuation.

The set consists of two shielded fiber-optic converters, waveguide passage and 5 meters of fiber-optic cable.

An optical-fiber guiding light (high frequency) does not guide magnetic and electric waves. So signals from within the cage are not transported to the outside of the cage, or vice versa, because the optical fiber does not function as an antenna.



Feedthrough set for shielded rooms and Faraday cages



Feedthrough set for shielded rooms and Faraday cages. The unit outside the Faraday cage is connected with the unit inside the Faraday cage through a waveguide an optical fiber.

Features

- The transmission of a channel optical signals can be completed by single fiber. It has doubled in quantity of fiber data transmission compared with twin fiber type.
- Auto negotiation function allows UTP port to auto select 10M or 100M and Full Duplex or Half Duplex.
- UTP port supports MDI / MDI-X auto crossover
- Supporting flow control
- Supporting 1552 Byte packet
- Internal circuit of prevented thunder could greatly reduce damage of the converter caused by thunderbolt induction.
- Design of internal or external power supply for selection by users

Specifications

- Operating standards: IEEE802.3u, 10/100Base-TX and 100Base-FX
- MAC address table: 1K
- LED: Power, FX 100, FX Link/Act, TX 100, TX FDX, TX Link/Act.
- Power: AC 110V - 220V to DC 5V; DC48V to DC 5V
- Ambient temperature $0 \text{ }^{\circ}\text{C}$ $\frac{3}{4}$ $50 \text{ }^{\circ}\text{C}$
- Storage temperature $-20 \text{ }^{\circ}\text{C}$ $\frac{3}{4}$ $+70 \text{ }^{\circ}\text{C}$
- Humidity: 5% $\frac{3}{4}$ 90%

Connector

- UTP: RJ-45 10/100Mbps
- Fiber: SC 100Mbps

Cable

- UTP: Cat. 5 UTP (max. distance up to 100m)
- Fiber (single mode): 8.3/125, 8.7/125, 9/125, 10/125m (max. distance up to 90km)

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Flow control

- Full Duplex: IEEE802.3x
- Half Duplex: Backpressure

Dimensions

- Internal power: 30110140mm
- External power: 267093mm

Part number

7894

Fiber optic ethernet
converter set +
waveguide

Partnumber / Ordercode:

7894