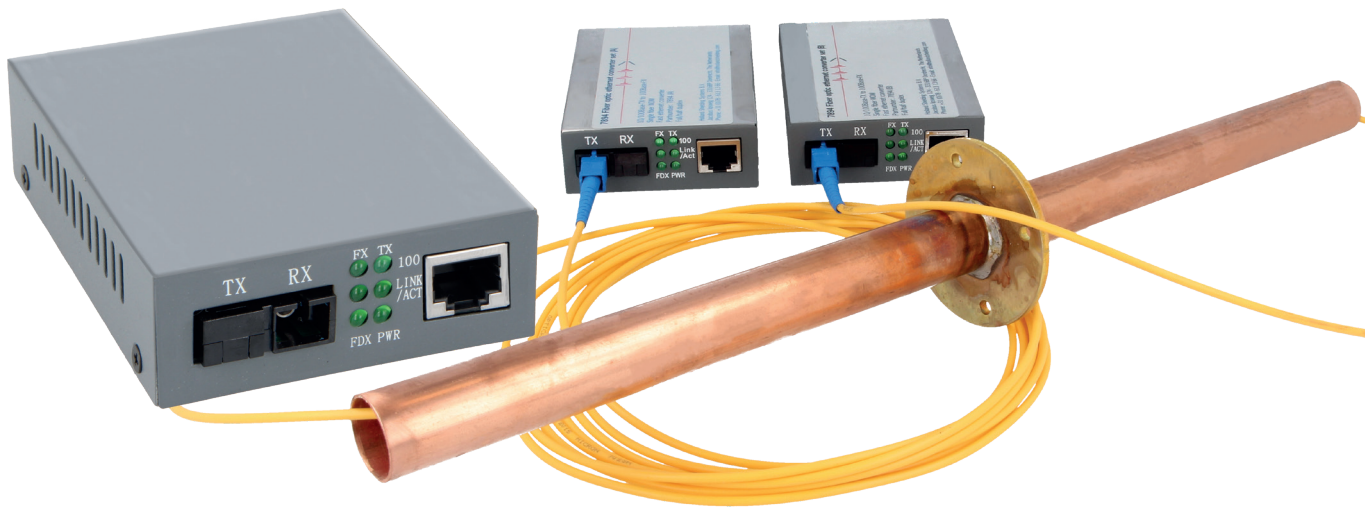# FIBER OPTIC ETHERNET CONVERTER SET 7894

EMI Shielded room and Faraday cage feedthrough for high speed Ethernet / UTP communication links

Our 7894- Fiber-optic ethernet converter set offers a shielded-room feedthrough for high-speed Ethernet/UTP communication links. The fiber-optic ethernet converter set is used to convert a 10/100/1000 Base-T signal to a 10/100/1000 optical signal, so you can use your internet connection or for example your videocamera connection inside or outside the Faraday cage while maintaining over 140 dB 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.

FEATURES

- The transmission of optical signals can be done through a single fiber since this allows for twice as much data transmission compared with a twin fiber type
- Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex.
- UTP port supports MDI / MDI-X auto crossover.
- Supporting the max 1536 byte Ethernet packet
- Supporting flow control
- Adopting internal power supply

SPECIFICATIONS

Operating standards	IEEE802.3z/AB 1000Base-T, 1000Base-SX/LX
MAC address table	4K
Data Buffer	256K
Connector	UTP: RJ-45, 10/100/1000Mbps
	Fiber: SC,1000Mbps
Cable	UTP: Cat 5e or Cat 6 (the max distance up to 100m)
	Fiber (singlemode): 8.3/125, 8.7/125, 9/125μm (the max distance up to 100km)
Flow Control	Full Duplex: IEEE802.3x flow control
	Half Duplex: back pressure flow control
Power	AC110-240V to DC5V
Ambient temperature	0 - 50°C
Storage temperature	-40 - 70°C
Humidity	5% - 90%
Dimensions	140 x 110 x 40 mm

ORDER EXAMPLE

Series

7894
Fiber optic ethernet converter set + waveguide