

Plastic Optic Fiber Media Converter FMC-10/100POF

Unmanaged Media Converter with POF (SMI & Optolock)

Plastic Optic Fiber, or POF as it is widely known, offers affordable, high-end connectivity for office and home networks. With speeds of 100 Mbps Optical Ethernet, it is a superior alternative to copper used in traditional networks. This is especially true for applications such as triple play and IPTV. The advantages to professional installers and amateur do-it-yourself users are numerous. The discrete 2mm x 4.5mm duplex cable is easily concealed under carpets or inside walls. While it's very lightweight and can be cut with a pair of scissors, POF is robust enough to survive even the most novice installer. Troubleshooting is a snap as it uses 650nm red light to transfer data from one device to another. A quick glance inside the cable will indicate connectivity to the network a red light seen by the human eye means the cable is connected; no red light means no connection. It's that simple.



SMI Type

POF is completely safe. Because it's a light-based solution, there is no EMI (electro-magnetic interference) so it won't interfere with other electrical equipment. Even a beloved pet biting through it would not be harmed. Likewise POF and the content it carries are completely immune to electrical noise, so they are not affected by the electrical equipment the POF passes. Even other existing networks or wireless systems in the house cannot interfere with data passing through the its cable. POF is already used in millions of cars worldwide to drive entertainment and information networks and has been proven reliable even in the most rugged environments.

Features

- RJ-45 to POF conversion
- POF link to 50 meter
- Cat. 5 UTP link to 100 meter
- Compact size and simple installation
- Supports store and forward
- Supports Auto-MDI/X function on Ethernet
- LED display for link/activity, full/half, 10/100
- DC Powered 12V/400mA. (with AC adapter)



Optolock Type

Ordering Information

- **FMC10/100POF-S** SMI connector, up to 50m, 650nm, 9dB
- **FMC10/100POF-O** Optolock connector, up to 50m, 650nm, 9dB

Specifications

LAN Interface Specification

- One RJ-45 female connector for straight or cross-over connection.
- Supports 10/100Base-TX, Full, Half duplex n-way (Auto-Negotiation).
- Supports Full, Half duplex, 10/100 speed manual selections.
- Transmission Packet Rate for 10/100Base-TX : 14880bps/148800bps.
- Copper TP cable 4 pair Cat. 3 or 5 UTP
- Link length Up to 100 m* for full duplex application

Optical Interface Specification

- Wavelength 650nm
- Link length Up to 50 meter
- Connector type SMI POF or Optolock POF port (multi-mode)
- Transmitted optical power type: -8.0dBm
- Received sensitivity type: -17.0dBm
- Spectral width (FWHM): 18nm

General Specification

- Complies with IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX standards.
- 6 diagnostic LEDs : Power, Ethernet & Fiber linking and working statuses.
- Temperature: 0 - 50° C (Operating); 0 - 70° C (Storage).
- Humidity: 20-80% non-condensing (Operating); 10-90% (Storage).
- Power: Input: DC in : 12V/400mA, DC.
- Dimensions: FMC-10/100POF-S: 96.5 x 73.4 x 23mm (LxWxH). FMC-10/100POF-O: 100.4 x 73.4 x 23mm (LxWxH).
- Weight: 80g.
- Compliance: FCC part 15 class A, CE Mark.
- MTBF: > 50,000 h (25°C)