The Planet FT-807 is a 10/100Base-TX shielded twisted-pair to POF (Plastic Optical Fiber) SMI Fast Ethernet 100Base-FX fiber converter. The 10/100TX connection employs a standard RJ45 interface and the 100FX connection features a SMI (Small Multimedia Interface) connector. The FT-807 auto-adapts to the highest level of performance supported by the device connected to the RJ45 STP port. The SMI port is designed for use with POF cables with a core size of 1.0mm. POF offers a low-cost, high-speed data transmission solution, which is also immune to RFI and EMI. The SMI interface meets the IEEE 1394b specification and can transmit data up to 50 meters. The maximum distance supported on the RJ45 port is 100 meters.

Typical Applications for Plastic Fiber Optic Cables

- Automobile Control Systems
- Aircraft Control Systems
- Audio Equipment
- Video/Security Systems
- Industrial Automation
- LED/LCD/Plasma Displays
- POS/Checkout Systems
- Data Collection Systems
- Machine Tool Controls
- Medical Equipment
- Network Switch/Hub Applications
- Network Entertainment System (NESS™)
- Surveillance Systems
- Process Control Systems
- Business Systems
- Retail Systems

What are Plastic Optical Fiber Cables used for?

Plastic Optical Fiber cables experience high loss or attenuation and are used on short distance applications such as in car, in airplanes and with high-end audio equipment such as DVD players, CD players and MP3 and DAT recorders. The low cost and ease of connection make Plastic Optical Fiber the logical choice for these short distance applications.

Plastic Optical Fiber, like glass fiber is immune to lightning, and EMI and RFI. Using plastic fiber on high-end audio systems guarantees a "pure" sound.

Anatomy of a Plastic Optical Cable

- Core: Plastic fiber where light pulses travel through.
- Cladding: Coating around the plastic core which keeps the light from escaping.
- Jacket: Outer protective coating, typically PVC.

What our customers are saying...

"I always look forward to receiving The L-com newsletter! I love the "how to" articles and tips that are included along with the great prices...Don't change a thing!" - Michael T.