

POF SFP TRANSCEIVER

Data Sheet

Description

Fast Ethernet POF networks with standard 4B5B coding schemes are an attractive solution for local access data transmission systems in the transmission distance range from 30m to 120m. Up to a transmission distance of 70m it is feasible to use a simplex POF cable for the realization of a full duplex operating data link. Simplex cables comprise one optical waveguide only. Unlike simplex glass fiber systems that utilize WDM multiplexing, POF systems are able to operate with directivity multiplexing at one wave-length only for both transmission directions. This saves costs and makes the systems design easy. The technical basics for POF directivity multiplex are shown as well as the practical consequences for low cost POF-installations for intra building and apartment networks.

Up to now the system equipment for POF networks was more or less limited to media converter products (see figure below). Start sets of this type allow the installation of a 100Mbit/s Fast Ethernet link for every private customer.



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Features

Operating data	Rate up to 100MBit/s ,650nm
SFP compatible	Compatible with electrical and optical performance of the POFAC recommendations for the fast Ethernet over Plastic Optical Fiber(POF)
Current supply	180mA
Power supply	3.3V
Temperature range	-25~85℃
Dimension	68.4×19.4×20mm(L×W×H)
Net weight	34.5g

Fiber installation – Quick and Easy



Figure 1. Slice the POF cable.



Figure 2. Split the POF strands.



Figure 3. Insert POF into OptoLock®.

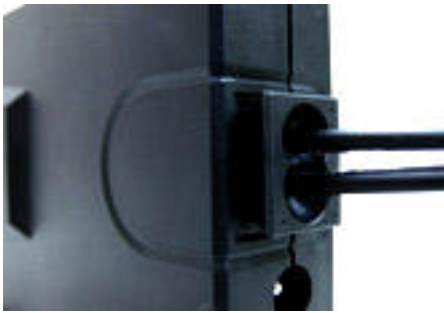


Figure 4. Press OptoLock® to hold POF into place.

Applications

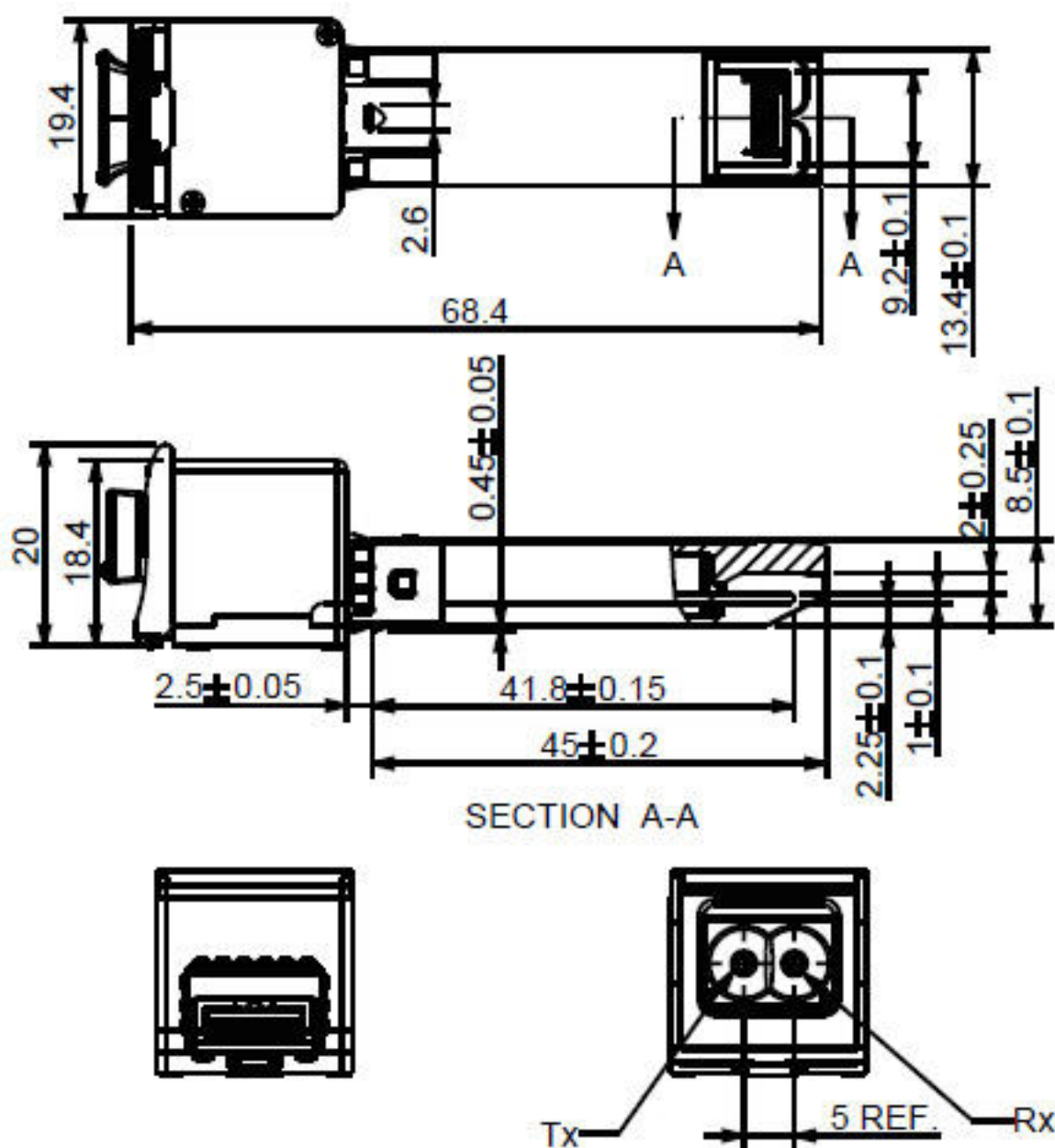
- Historic buildings
- Medicine and laboratory institutions
- Galvanic isolation
- Protection against electromagnetic interferences
- Factory automation at Fast Ethernet speeds
- Fast Ethernet networking over POF and HCS

Advantages

- Immunity against electromagnetic
- Higher bandwidth and higher transmission speed
- Terminate in seconds & Simple installation
- Mechanic stability & Robust design
- Flexibility & Inter operability
- Cost & space saving
- Galvanic separation
- Spark hazard reduction
- Data integrity

P.S. OptoLock® is a registered trade mark of Firecomms.

Structural Drawing



※Measurement: mm