

# FDDI Connectors & Adapters



[查询"86130-0600"供应商](#)



## Features & Benefits

- Fully compatible with ANSI FDDI standard
- Floating and self-aligning ferrule design
- Positive latching mechanism
- Color coded keying for service identification
- Pre-polished and pre-radiused ferrules
- Variety of adapters:
  - FDDI to ST\*
  - Flange mount or snap mount
  - Zirconia or polymer alignment sleeves

## Applications

- Duplex fiber optic system
- Building wiring
- FDDI backbone network
- IEEE 802.4 token bus

The American National Standards Institute (ANSI) developed a standard that provides for flexible, robust high-performance local area networks. This high-speed, 100 megabit per second standard is called the Fiber Distributed Data Interface (FDDI). In support of this standard, Molex has developed its FDDI family of fiber optic connector and adapter products.

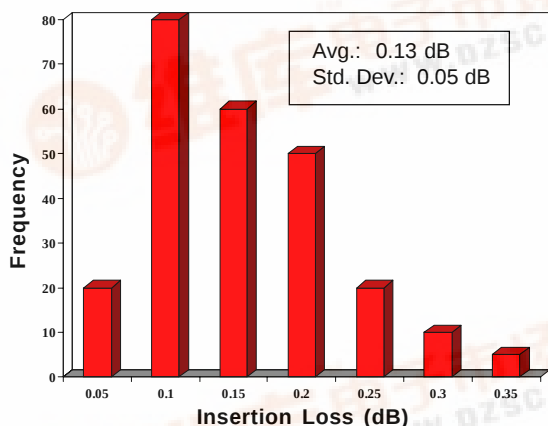
The Molex family of FDDI connectors utilize pre-polished and pre-radiused ferrules. When combined with the unique Molex termination process, these connectors produce quick and consistent FDDI terminations. The type of port and service on the connector is easily identified by the color coded and polarized keys provided with these connectors.

Adapters are available in a variety of mating and mounting configurations. All are made of strong and durable engineering polymers and have either precision zirconia ceramic or polymer alignment sleeves. Polarity maintaining and color coded keys, that are compatible with the port designation on the connector, are provided with the adapters.

\*ST is a trademark of Lucent Technologies

## Optical Performance Distribution

**Insertion Loss Performance**  
(MM enhanced ferrule, 62.5/125 $\mu$ m fiber)



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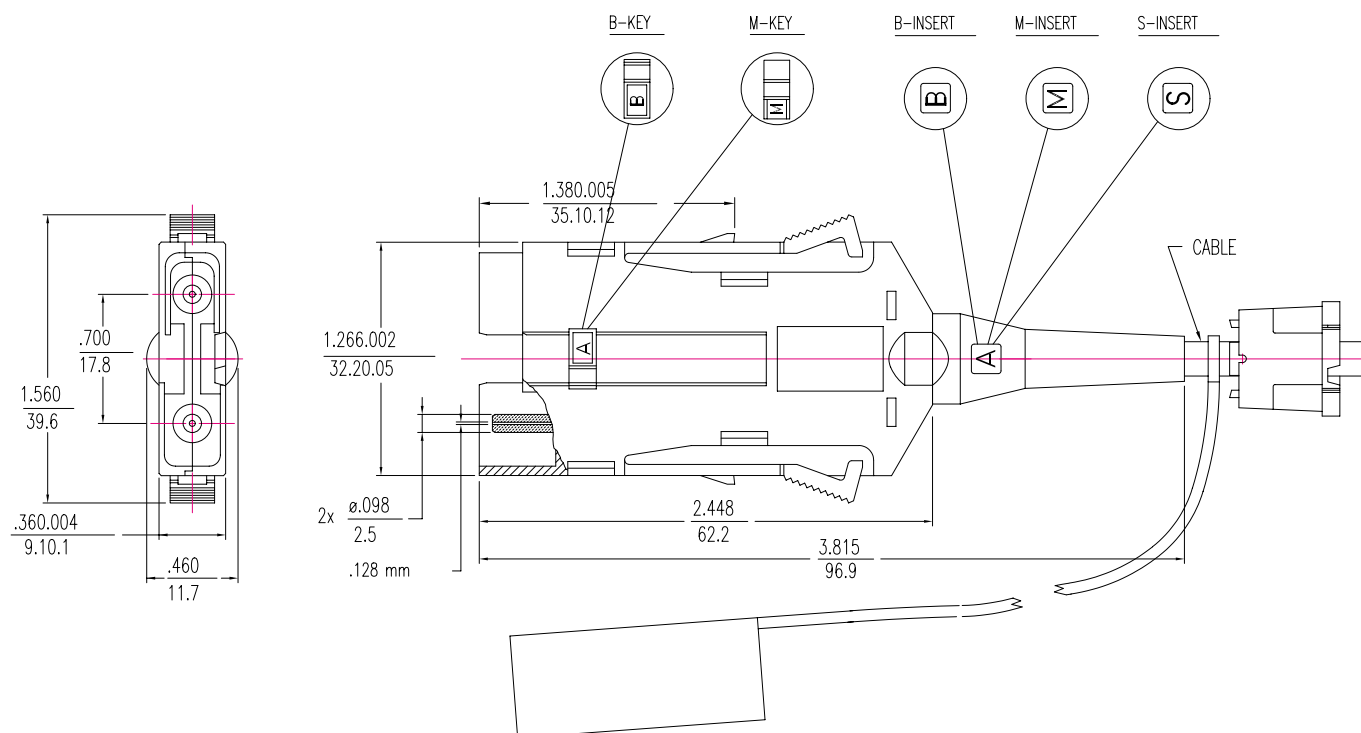
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## Performance and Specifications

| Characteristics     | Units | Min. | Typ. | Max. | Comments                                           |
|---------------------|-------|------|------|------|----------------------------------------------------|
| Durability          | ~dB   | -    | -    | 0.1  | FOTP-21A, 1000 cycles<br>cleaning every 100 cycles |
| Temperature Range:  |       |      |      |      |                                                    |
| Storage             | °C    | -40  | -    | +80  | May be further limited by cable specifications     |
| Operating           | °C    | -40  | -    | +80  | May be further limited by cable specifications     |
| Thermal Shock       | ~dB   | -    | -    | 0.1  | -40°C to +60°C, 10 cycles                          |
| Temperature Cycling | ~dB   | -    | -    | 0.1  | -40°C to +80°C, 40 cycles                          |
| Humidity Cycling    | ~dB   | -    | -    | 0.1  | FOTP-5, type 1 +60°C at 95% RH for 504 hours       |
| Cable Retention     | ~dB   | -    | -    | 0.2  | FOTP-6, 50 lb. load without adhesive               |

## Mechanical Dimensions

### FDDI Connector



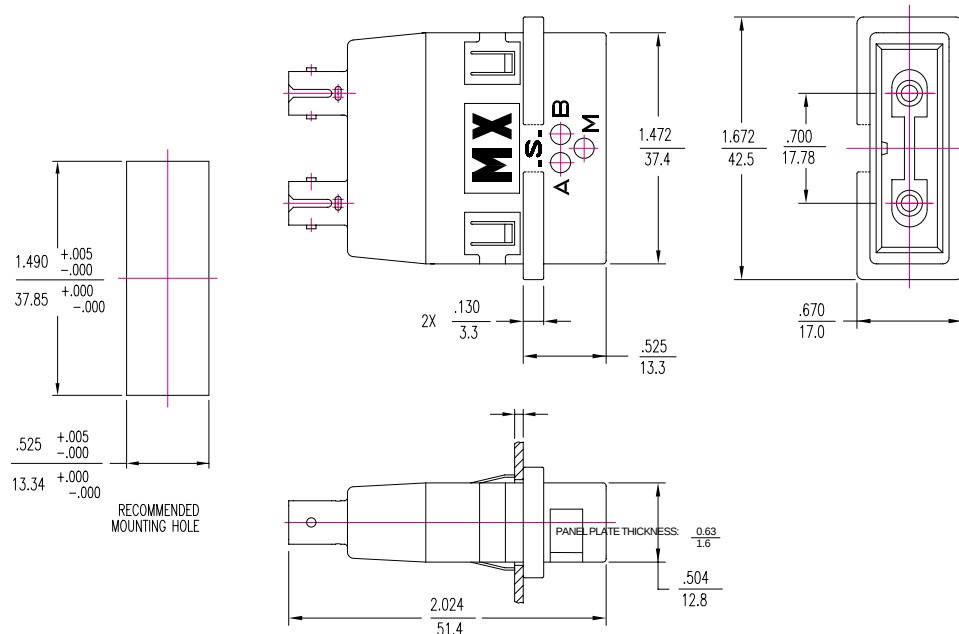
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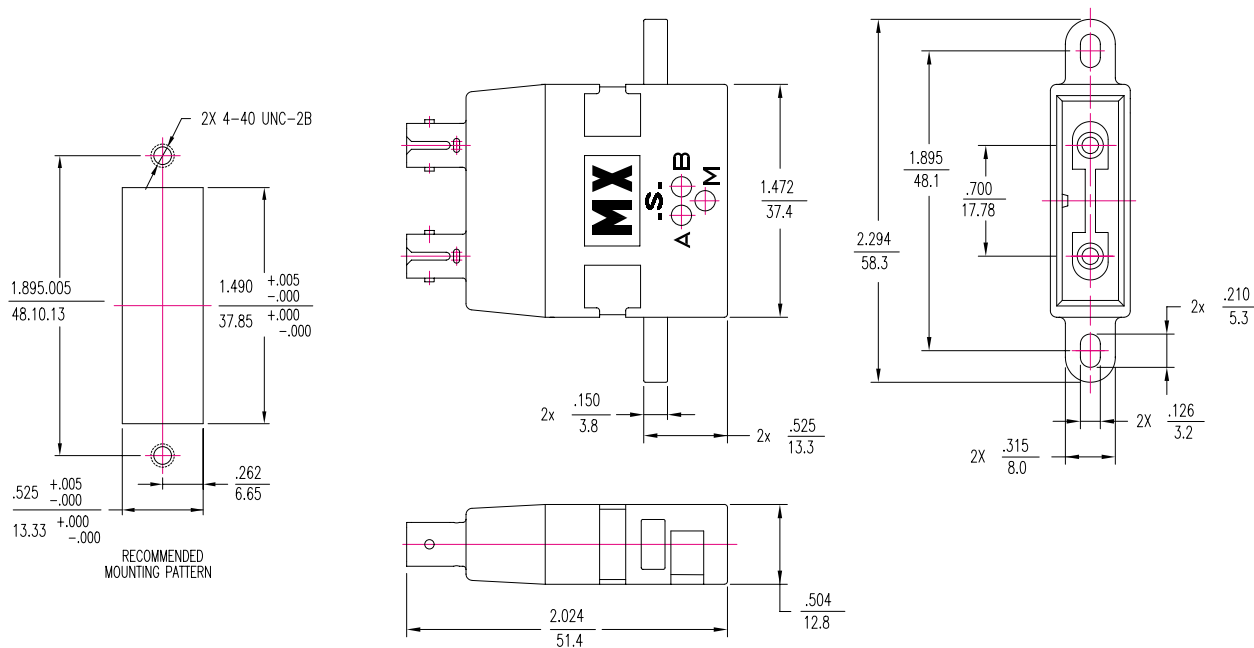


## Mechanical Dimensions

### FDDI to ST Adapter, Snap-In Mount Style



### FDDI to ST Adapter, Flange Mount Style



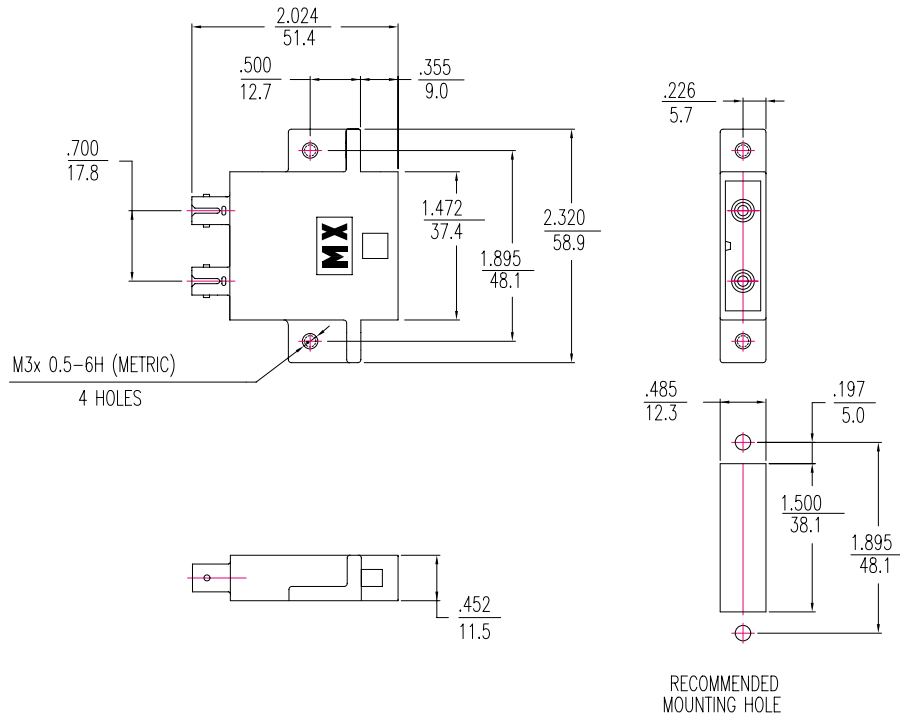
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## Mechanical Dimensions

### FDDI-ST Adapter, Threaded Mount Style



All dimensions in  $\frac{\text{INCHES}}{\text{mm}}$

## Standard Part Numbers

| Order Number | Description                                          | Hole size "D" | Cable size |
|--------------|------------------------------------------------------|---------------|------------|
| 86030-0000   | FDDI connector, MM, zirconia PC <sup>+</sup> ferrule | 127μm         | 4.2mm      |
| 86030-0100   | FDDI connector, MM, zirconia PC <sup>+</sup> ferrule | 127μm         | 4.8mm      |
| 86030-0200   | FDDI connector, MM, zirconia PC <sup>+</sup> ferrule | 127μm         | zipcord    |
| 86030-0300   | FDDI connector, MM, zirconia PC <sup>+</sup>         |               |            |