



HIPPI-6400 Optical Working Group

**MTP Connector Update
February 10th, 1998**

**John Keesee
US Conec Ltd.**

MTP Connector Update

- 1) Hermaphroditic MTP?**
- 2) Module/Plug Guide Pin Orientation**
- 3) Guide Pin Retention**
- 4) MTP Side-Load Performance**
- 5) New Color-Coded Housings**
- 6) Duplex MTP?**

Module/Plug Guide Pin Orientation

Question:

- Male or female module?

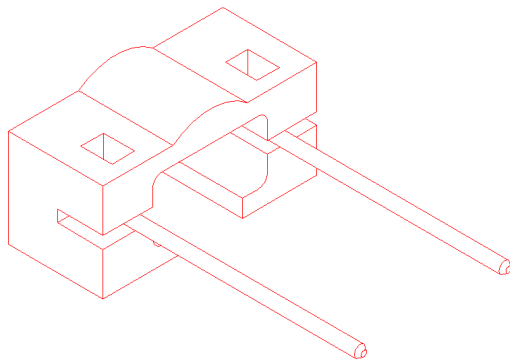
Module/Plug Guide Pin Orientation

Answer:

- **Reduce possibility of damage to module.**
- **Make module male.**

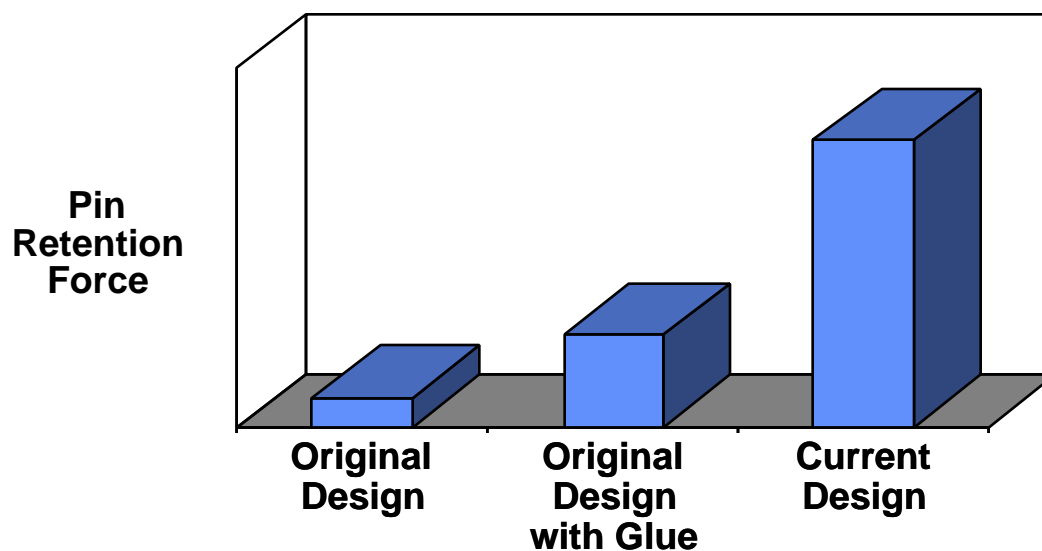
Guide Pin Retention

- Pins held in MTP using pin clamp.
- Pin clamp utilizes tongue-in-groove for retention.



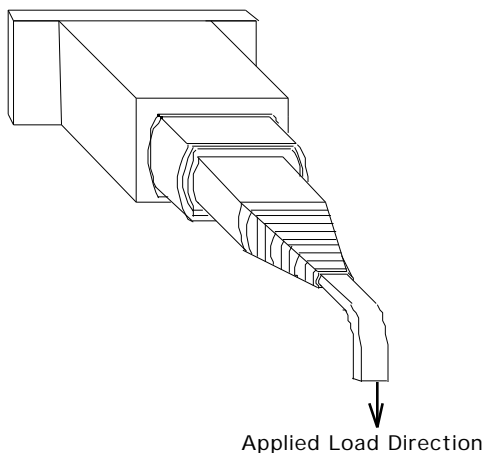
Guide Pin Retention

- Pin clamp tested to over 3 lbf pull out force.
- MTP sold with guaranteed pin retention since 1996.

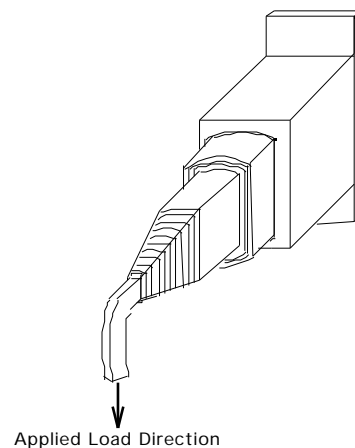


MTP Side-Load Performance

- Apply load 90° to connector
- Test in preferential and non-preferential axes.



Preferential



Non-Preferential

MTP Side-Load Performance

Performance:

- Loss change* <0.5 dB during 5 lbf load.
- Loss change* <0.2 dB after 10 lbf load removed.

* Tested per US Conec Product Specification CD-B05-004.

MTP Side-Load Performance

- **Requires minor design change to pass.**
- **Meets IEC 1754-7.**
- **Prototype testing completed.**
- **Parts available 2nd half 1998.**

New Color-Coded Housings

- **To more easily distinguish MM and SM:**
 - **Single-mode = green housing**
 - **Multimode = beige housing**

Duplex MTP?

- Is a duplexed MTP needed?