



P1394b Spec. Holes Analysis

-December '97 P1394b meeting-



Major Holes

◆ Copper

- Gigabit connector
- Gigabit cable
- CAT-5

◆ Fiber

- Glass
- POF

◆ PHY - LINK

◆ Protocol

- Startup
- Suspend/Resume
- Arbitration enhancements

◆ Testability

◆ 4 GBd physical



Copper

◆ Gigabit connector

- Current, new plug compatible, new not compatible
- Cross-talk, impedance profile specifications

◆ Gigabit cable

- Ditto

◆ New annex K procedures



Fiber

◆ Glass

- Connector choice
- Amateur friendly installation tools

◆ POF

- Connector choice

◆ Testing/qualification procedures



PHY -LINK

- ◆ **Scaleable interface**
- ◆ **Isolation to 500 V.**
- ◆ **Signaling choice**
- ◆ **Clocking choice**



Protocol

- ◆ **Startup**
 - State machines
- ◆ **Suspend/Resume**
 - Signaling scheme
- ◆ **Arbitration enhancements**
 - Define and validate



Testability

- ◆ System level/OEM testing hooks
- ◆ Positive proof of compliance



4 GBd Physical

- ◆ The electro-optical story is non-existent
- ◆ The copper story is suspect