

IEEE P1394b Connector Task Group ***"Copperheads"***

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Report to the Plenary

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- **Cable detect pin in copper connector**
 - **Proposal under review**
 - ▶ **User feedback requested by Alps to allow for high speed operation with legacy performance**
 - **Action from the Chairman to determine by October meeting whether a new cable + switch are needed**

- **REPORT**
 - **After much discussion it was concluded:**
 - **S800 may not need a detect device (to be confirm by additional testing)**
 - **S1600 will need new cable/mod. connector + detect device**
 - **Impact to pinout/function of connector/cable + PHY**

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- **NEXT- Near end cross talk for cable/connector requirement**
 - **Colin Witby- Strevens has requested that this group provide NEXT information for the 6 ckt I/O system. These are needed to understand total electrical budget. Request is based on work done in Fibre Channel**

- **REPORT**
 - **Based on the draft electrical chapter today we propose the followings changes to meet the NEXT and total electrical budget for connectors and cables:**
 - **S800 - 200ps risetime (250ps for EMC concerns)**
 - **S1600- 100ps (same in draft)**
 - ▶ **Based on -26Db crosstalk, Skew values in P1394b**
 - ▶ **Total Budget- 80 mv maximum launch (NEXT 40mv, noise 15mv, off transmitter 20mv, margin 5mv)**