Connector requirements - 1 - Cost of ownership etc

- Low cost (v important)
  - enables system (cable, connectors, any other necesary hardware installation) cost comparable to UTP-5
- Good for home wiring installation with 20 year lifetime,
  - transceiver upgrades for higher bandwidth
- Simple installation, suitable for domestic application
  - simple cable termination for wall plates etc
  - amateur installation, simple, economical tools
- Low to zero maintenance
  - amateur maintenance
  - no problem from dust etc
- Standardized or standardization in progress (EIA/TIA, ISO, IEC etc)
  - select, not invent
  - complies with IEEE patent policy

Connector requirements - 2 - Function

- Duplex, asymmetric, differentiated (keying etc)
- Support speeds from 125 MBaud up to 4GBaud
- Suitable for equipment, dongles and wall plates
  - allow any to any connection with patch cords
- OK to require pre-assembled patch cords
- Small size (e.g. RJ45 aperture compatible)
- Low loss
  - 1.5dB link connector budget - at least 2 passive connections, support for additional splices desirable
- Format suitable for MMF
  - suitable for POF may be desirable
- Support for eye-safety in normal use
- Assist physical safety

Additional information

1. Provide an appropriate letter on access to patents (see below)
2. Ensure that a pdf of today's presentation is on the P1394b web site (send the pdf file to mike@fireflyinc.com)
3. Provide tooling estimated costs for both GOF and POF and, in both cases, for professional installers and amateur installers (as appropriate). NB costs should not be expressed in terms which conflict with anti-trust requirements (open market list prices are OK)
4. Provide a matrix of what is available, and what is under developments (with a timeline) for both GOF and POF
5. Provide information on durability and higher cycles of mating/unmating tests (performance after 500 cycles, performance after 1500 cycles)
6. Provide information on independent testing (including round robin)
7. Provide information on the number of vendors of the proposed connector
8. Provide information on transceiver integration
9. Provide a demonstration in Maui on October 22nd