

P1394b UTP5 Task Group April 98

1. Loss budget calculations (Alistair Coles)

- allows reach of 57m (see next item)
- propose to lower launch and sensitivity (50mV) to assist Class B emissions requirements

2. Reach issue

- may not have a good solution for installed base or expectations of cable installation specification groups
- limitation is both loss budget and passive equalisation
- propose to liaise with cable wiring specification groups

3. Crosstalk measurements (Bill Northey)

- pin choices look good
- more testing promised

4. Review of the current specification and open issues:-

- Eye diagram mask for the transmitter signal at the RJ45 connector
 - ▶ based on shorthaul elec spec with an allowance for transformer etc
 - ▶ min rise time - based on short haul elec (still tbd)
- Jitter budget
 - ▶ need simulations and proposal
- Testing
 - ▶ informative spec on the electrical spec at various reference points
 - ▶ normative spec at the connector (TX and RX)
 - ▶ diagrams from the short-haul electrical section
- How to spec equalisation
 - ▶ in the system (after the connector), not in the cable
 - ▶ informative section on equaliser spec/example design - action AC/EH
- Twist in a twisted pair
 - ▶ solved logically after scrambler synch