

P1394b UTP5 Task Group Mar 98 - Report

1. Ingress noise (Alistair Coles/Dan Dove)

- report of various measurements - max is 20mV differential noise

2. 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
 - ▶ rmin rise time - based on short haul elec (still tbd)
- Jitter budget
 - ▶ need simulations and proposal
- Receiver sensitivity (is the new figure of 100mV too aggressive??)
 - ▶ want even more aggressive 50mV
- Loss budget (max cable length plus max 4 in-line connector pairs)
 - ▶ contribution solicited
- Testing
 - ▶ informative spec on the electrical spec at various reference points
 - ▶ normative spec at the connector (TX and RX)
 - ▶ diagrams from th 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
- Twist in a twisted pair
 - ▶ solve logically, possibly during scrambler synch

3. Any other business

- VESA question - accidental connection to ethernet
 - ▶ not a problem, transformer isolation, phone ring tone on a different pair