

ISO/IEC SC25/WG3 Meeting, Tokyo: 25-28 May 1998

- Customer Premises Cabling -

presented by Alan Flatman



50 Experts

17 Nations

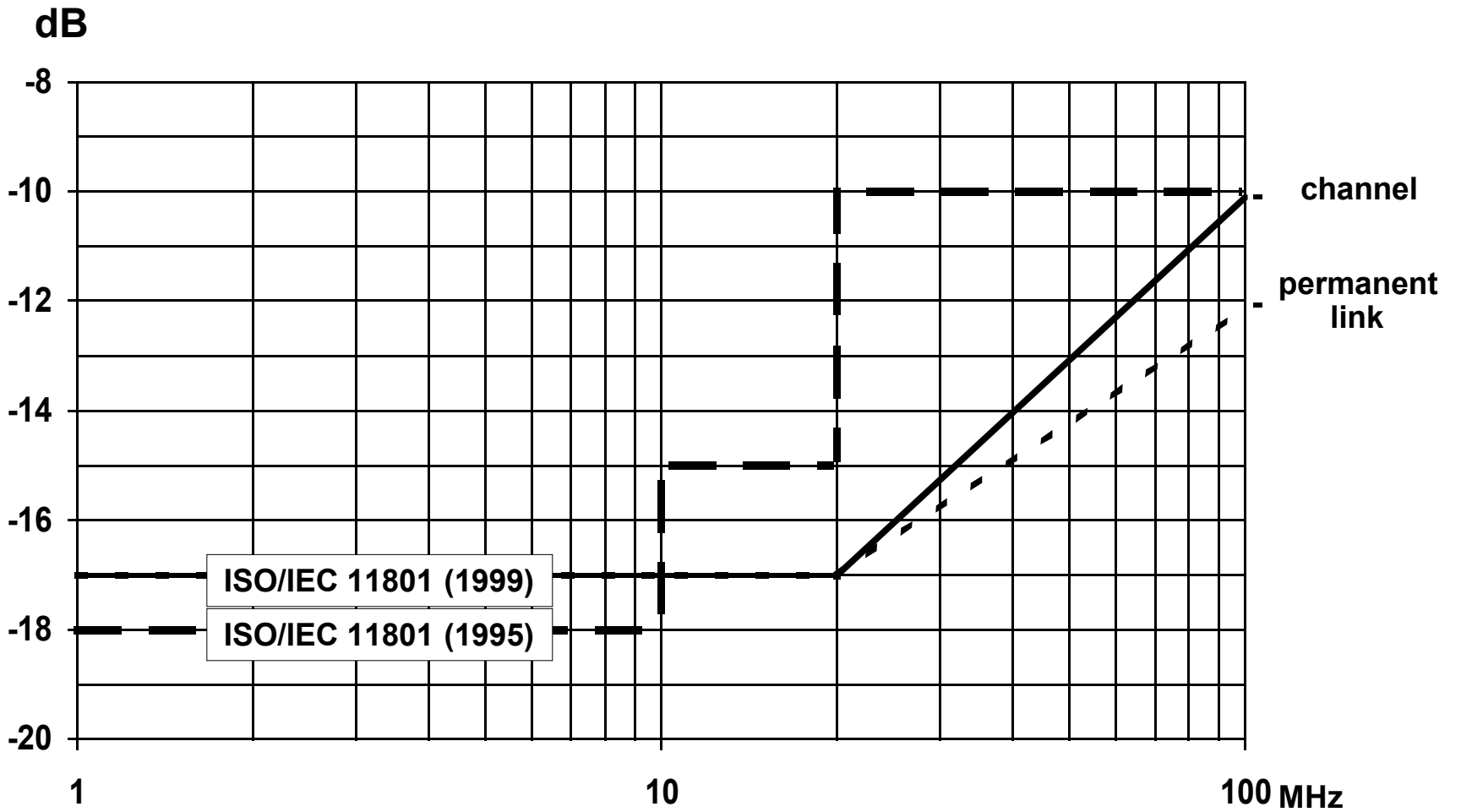
Key Items:

- short-term addendum finalised
- Enhanced Cat 5 RL adopted
- future cabling model agreed
- Cat 6, 7 make steady progress
- generic FO cabling abandoned
- 97 working docs considered
- closer links with CENELEC

ISO/IEC 11801 Addendum

- being processed as three amendments
- channel specifications introduced
- *Link* changed to *Permanent Link*
- parameter values based on formulae
- link Zc determined by RL, met by design
- 160 MHz.km 62MMF cable accommodated
- ELFEXT, PS-ELFEXT and PS-NEXT added
- RL values = TIA Enhanced Cat 5 values

ISO/IEC 11801 Return Loss



ISO/IEC 11801 2nd Edition

- **4-connectors and +ve PS-ACR channel**
- **CENELEC Cat 6/7 dev't process adopted**
- **LCL, Transfer Impedance limits proposed**
- **proposal to relax FTP LCL not accepted**
- **Coupling Attenuation limits from 30 MHz**
- **generic optical fibre classes abandoned**
- **minimum lengths for fibre applications**
- **high density optical connector TBD**

Cat 6/Class E Cabling

- **200 MHz channel with 4-pair wired RJ-45**
- **draft spec to 250 MHz based on formulae**
- **working spec based on Lucent proposal (48dB connector NEXT @ 200 MHz)**
- **Nordx/CDT propose cable with 3dB lower attenuation and 6dB higher PS-NEXT**

Cat 7/Class F Cabling

- **~500 MHz channel based on 4 connectors**
- **specification proposed to 600 MHz only**
- **no ELFEXT limits or formulae proposed**
- **component values based on German DIN**
- **connector NEXT from RJ-45 pins 1,2 & 7,8**
- **new Cat 7 connectors yield superior NEXT**
- **connector requirements linked with IEC48B**
- **development phase extended to Jan 1999**