

# ISO/IEC SC25/WG3 Meeting

Tromso: 12-16 June 2000

- Customer Premises Cabling -

## Highlights

- 11801 2<sup>nd</sup> Ed approved as CDV
- interim mtg to complete draft
- Class D, E, F channel + PL firm
- optical class scheme adopted
- $dcloopR = 25_{ohm}$  for Class D,E,F
- SOHO cabling gains momentum
- “multimedia” cabling proposed
- pathways + spaces draft ready



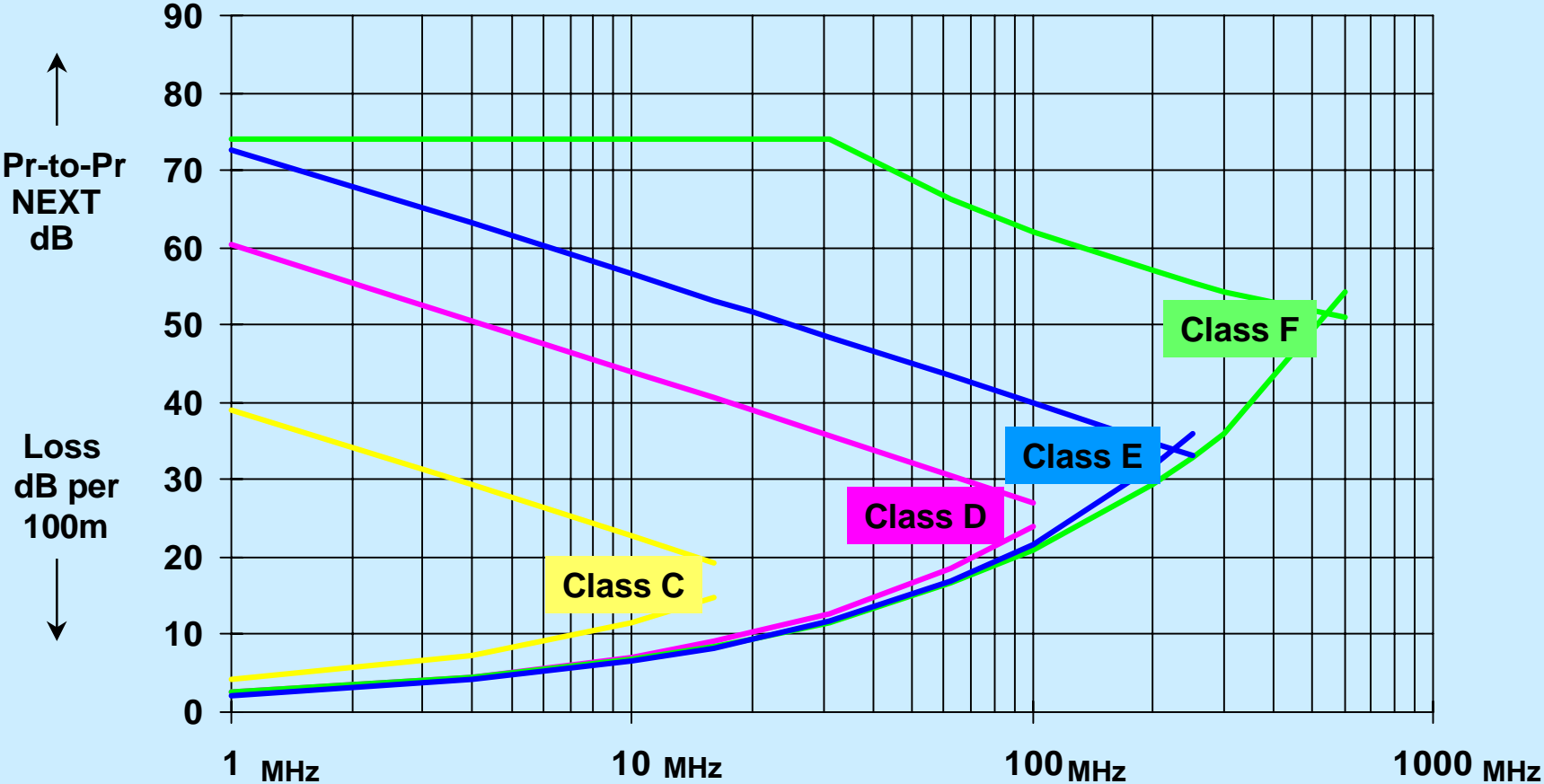
50+ Experts

18 Nations

# **ISO/IEC 11801 2nd Edition: Content**

- 1. Scope**
- 2. Normative References**
- 3. Definitions & Abbreviations**
- 4. Conformance**
- 5. Structure**
- 6. Balanced Cabling Performance**
- 7. Balanced Cabling Ref Implementations**
- 8. Optical Fibre Cabling Performance**
- 9. Cable Performance**
- 10. Connecting HW Performance**
- 11. Electromagnetic Performance**
- 12. Screening Practices**
- 13. Administration**
- 14. Modular Cords**

# ISO/IEC 11801 2nd Edition: Next Generation Copper



# **ISO/IEC 11801 2nd Edition: Tromso Decisions**

## **- Copper -**

- **minimum horizontal link performance = Class D**
- **cable mean impedance tightened to  $\pm 5$  ohms**
- **120 ohm cabling limited to Classes A through C**
- **Insertion Loss Deviation spec'd for Class E & F:**
  - » **to be specified as both insertion loss and noise**
  - » **1dB @ 250 MHz, 2dB @ 600 MHz with 4 connectors**
  - » **3m of solid horizontal cable equivalent to ILD loss**
  - » **IEEE 802 requested to guide on noise parameters**
- **does IEEE 802 require specification of LTCL?**

# **ISO/IEC 11801 2nd Edition: Tromso Decisions**

## **- Copper -**

- **UTP temperature de-rating factor was adjusted:**
  - » **0.4% per degC from 20 to 40 degC**
  - » **0.6% per degC from >40 to 60 degC**
- **Class D, E, F channel DCLR reduced to 25ohms**
  - » **true for temp range -10 degC to +60 degC**
  - » **installed Cat 5/Class D may exceed 25 ohms**
- **connector current capacity added as 175mA/pin**
- **max power limited to 10w per pair, 20w per cable**
- **max dc unbalance 1 ohm -10 degC to +60 degC**
- **majority of installed outlets are 4-pair terminated**

# **ISO/IEC 11801 2nd Edition: Tromso Decisions**

## **- Fibre -**

- **4-level scheme for generic optical cabling specified in terms of channel transmission characteristics:**
  - » **OF-300** for channel lengths up to 300m
  - » **OF-500** for channel lengths up to 500m
  - » **OF-2000** for channel lengths up to 2000m
- **4 optical fibre types spec'd for LED/laser bandwidth:**
  - » **OM1 = 200/500 MHz.km 62MMF**
  - » **OM2 = 500/500 MHz.km 50MMF**
  - » **OM3 = 2200/500 MHz.km 50MMF**
  - » **OS1 = Singlemode Fibre SMF**

## Other Projects

- **ISO/IEC 15018 SOHO Cabling**
  - » integrated cabling for homes, SOHO & other buildings
  - » for IT, building control systems, entertainment services
  - » all CD review comments were resolved at this meeting
- **ISO/IEC 18010 Pathways & Spaces**
  - » 23-page initial draft to be processed as CD
- ***Multimedia Cabling***
  - » 1.2 GHz cabling proposed, primarily for SOHO use
  - » support of existing/future CATV, satellite services

## **Future Meetings**

**29 Aug - 01 Sep 2000      Kitzbuel**

**12-16 Feb                  2001      Nice**