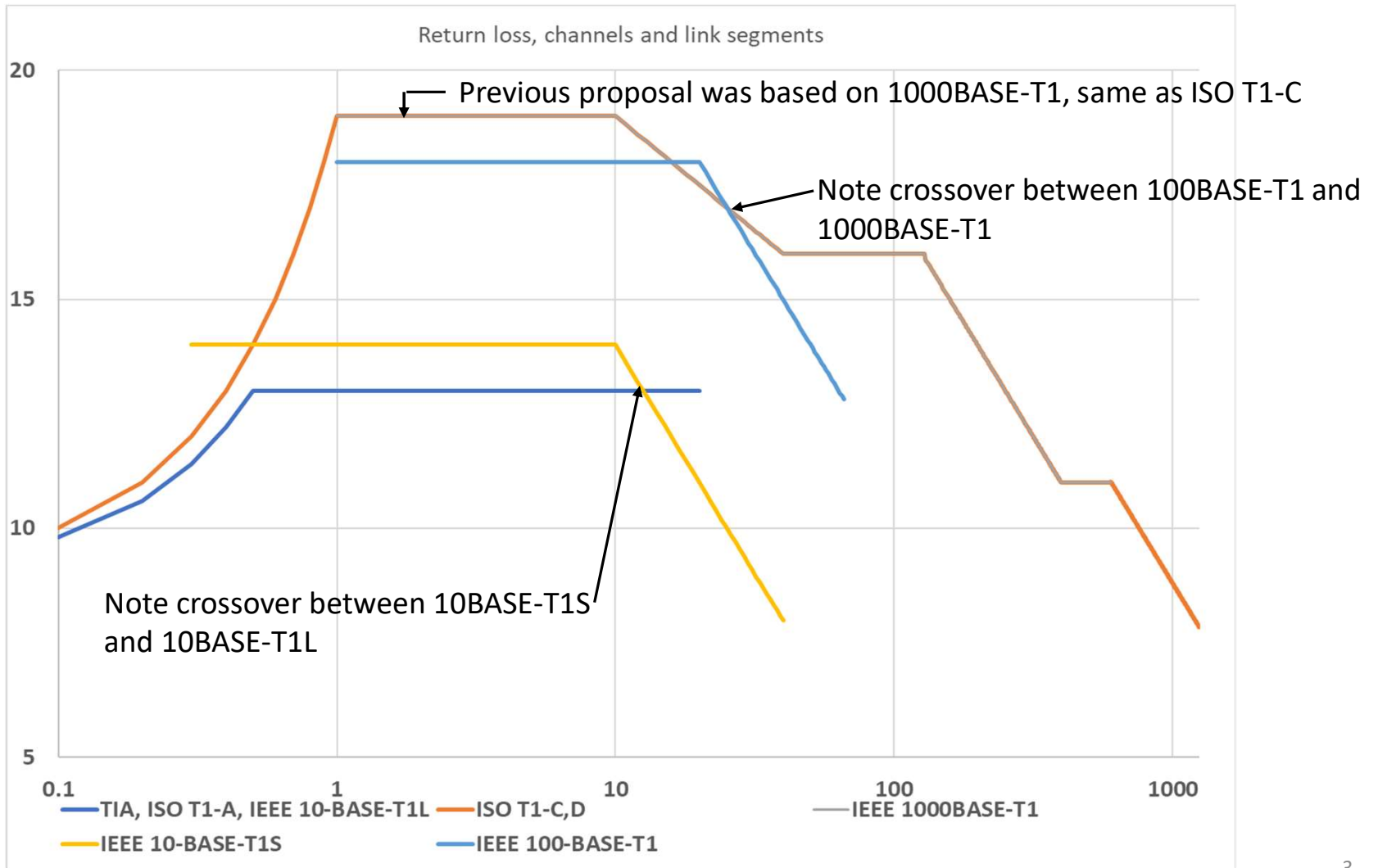


# Link Segment Ideas

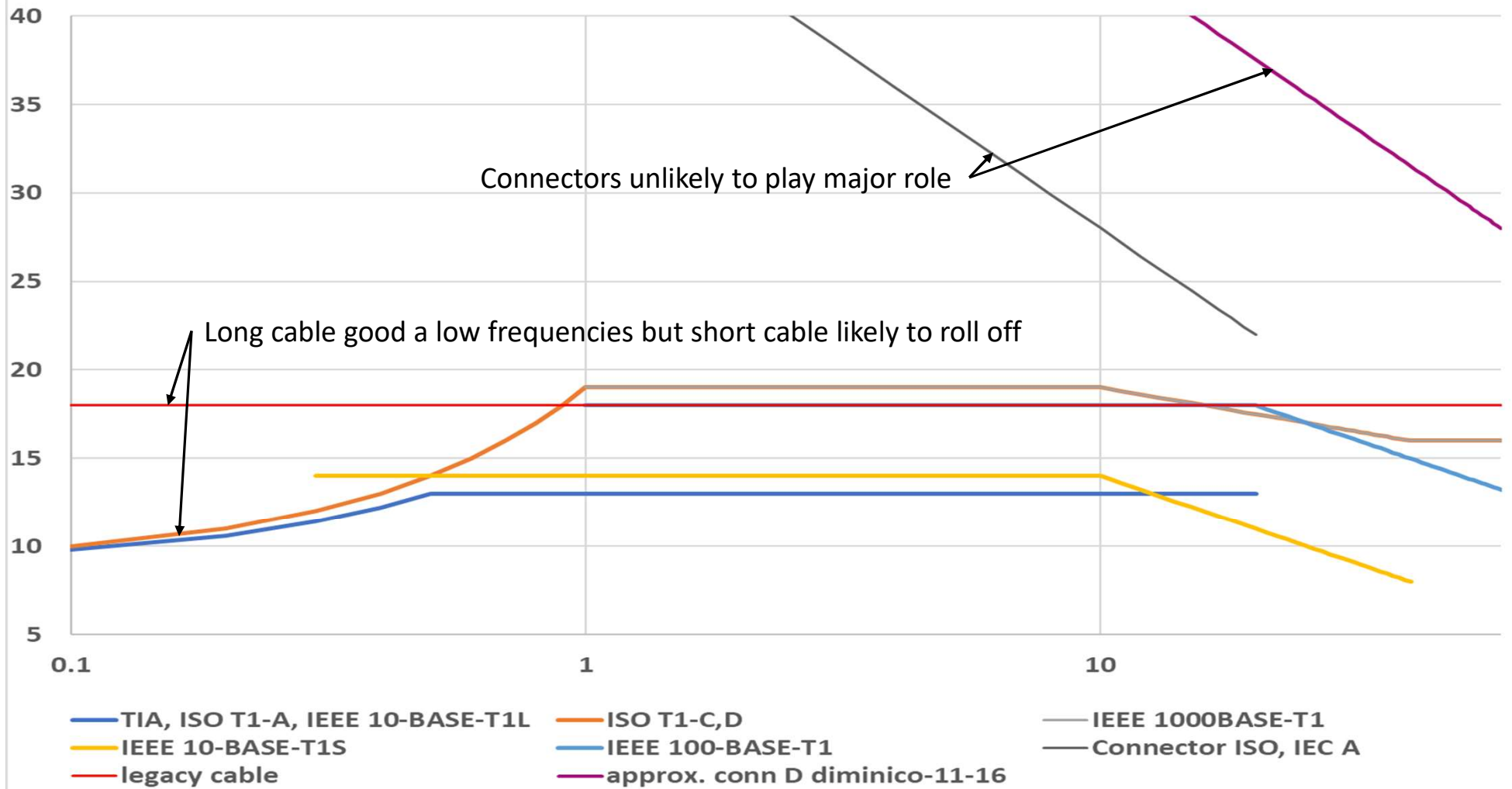
Wayne Larsen CommScope

# General thoughts

- Stick with the list of parameters to specify
  - Insertion Loss
  - Return Loss
  - TCL
  - ELTCTL
  - PSANEXT
  - PSAACRF
  - Delay
  - DC resistance
- Use the range 0.3 – 60 MHz for all parameters

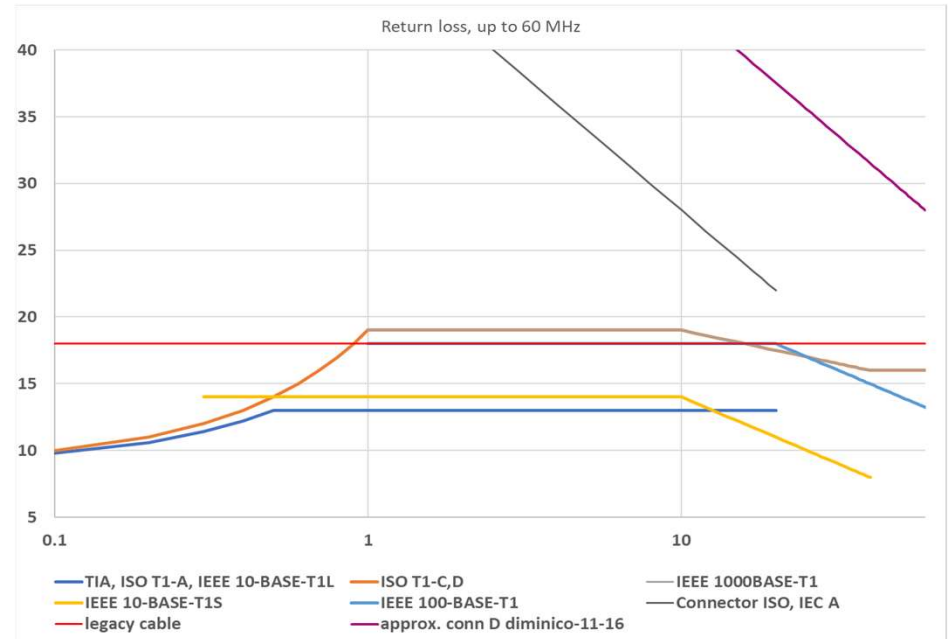


Return loss, up to 60 MHz



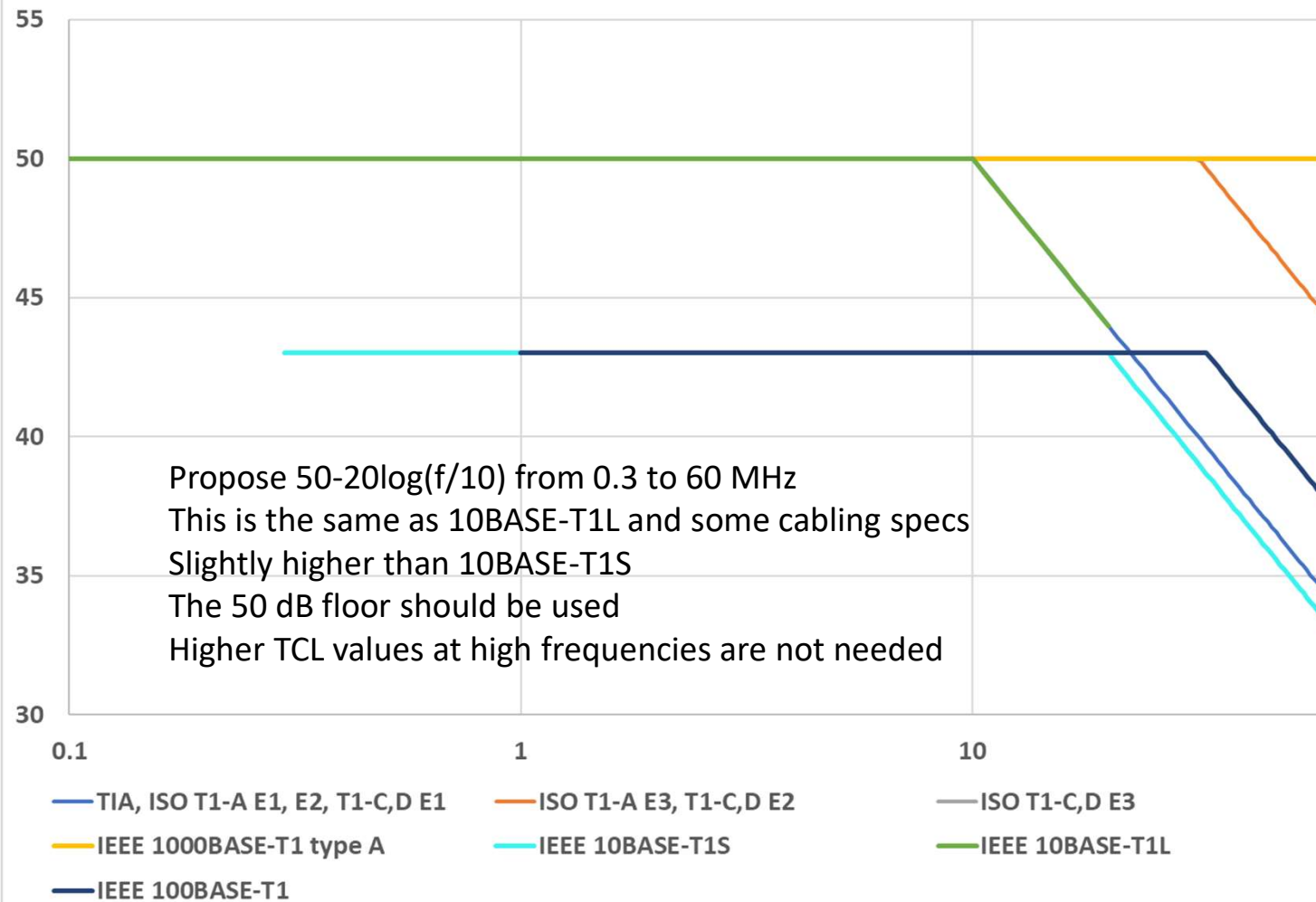
## Issues to consider in setting a return loss limit for 802.3dg

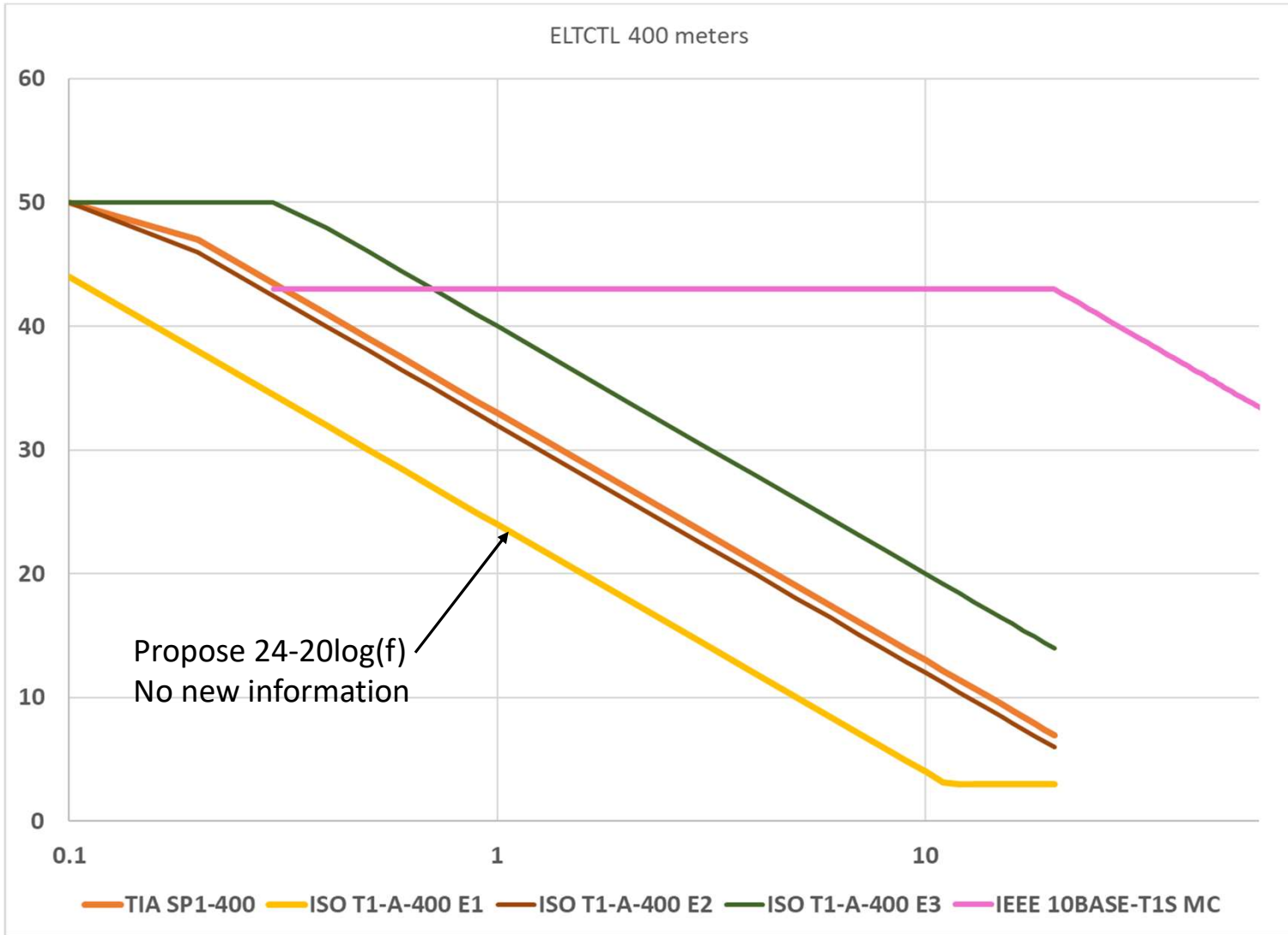
- Connectors are unlikely to play a large role  
ISO A connector is unreasonably low
- A level of 18 dB is likely to support one legacy cable  
Might want to include low f relief

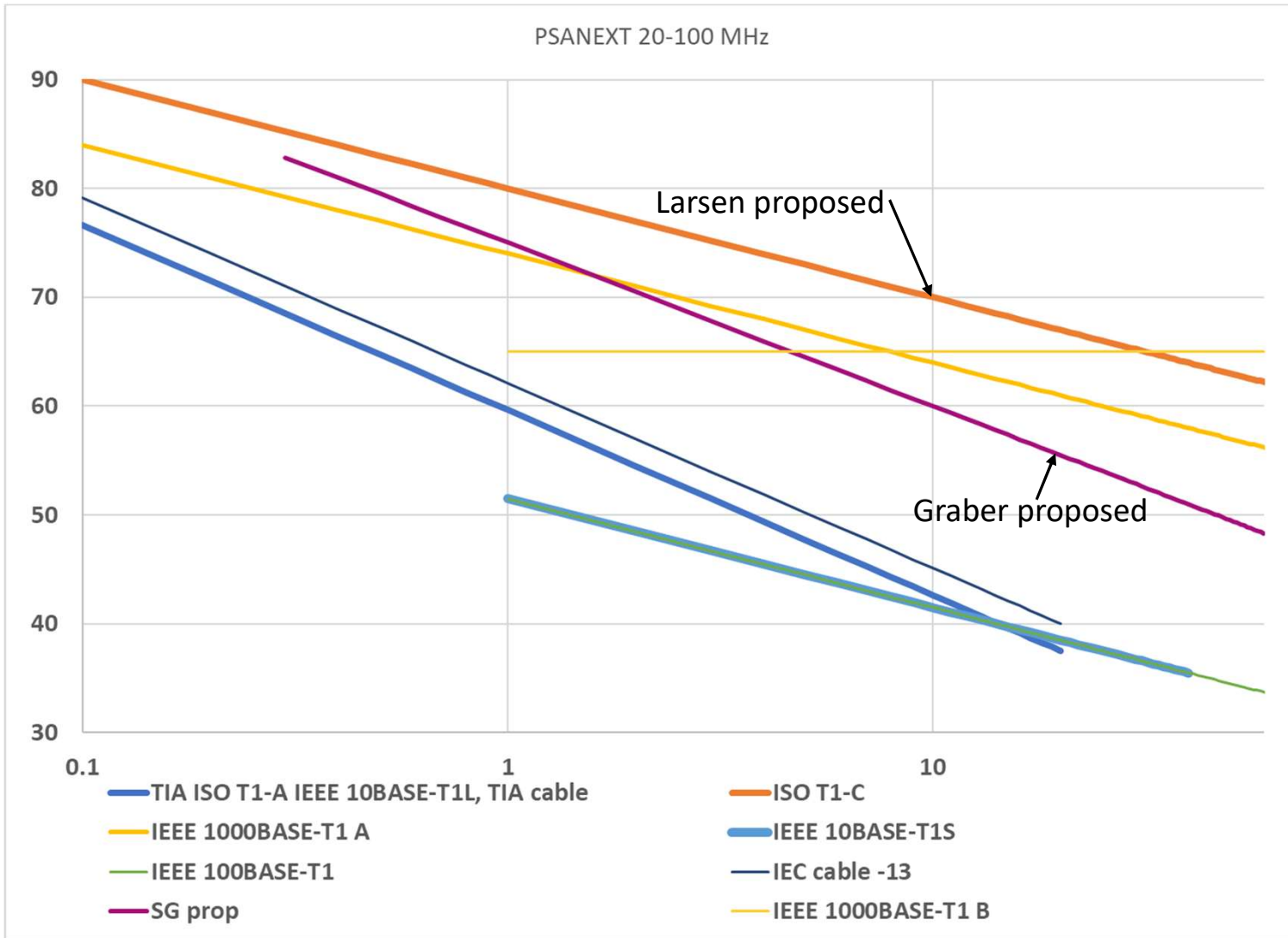


- An open question is whether impedance discontinuities between cable segments of different impedances would cause concentrated reflections
- The time domain based requirement from cy would be serving other purposes, and is a separate question
- A limit between the max of 10BASE-T1L and -T1S and the max of 1000BASE-T1 and 100BASE-T1 would be consistent with other specifications

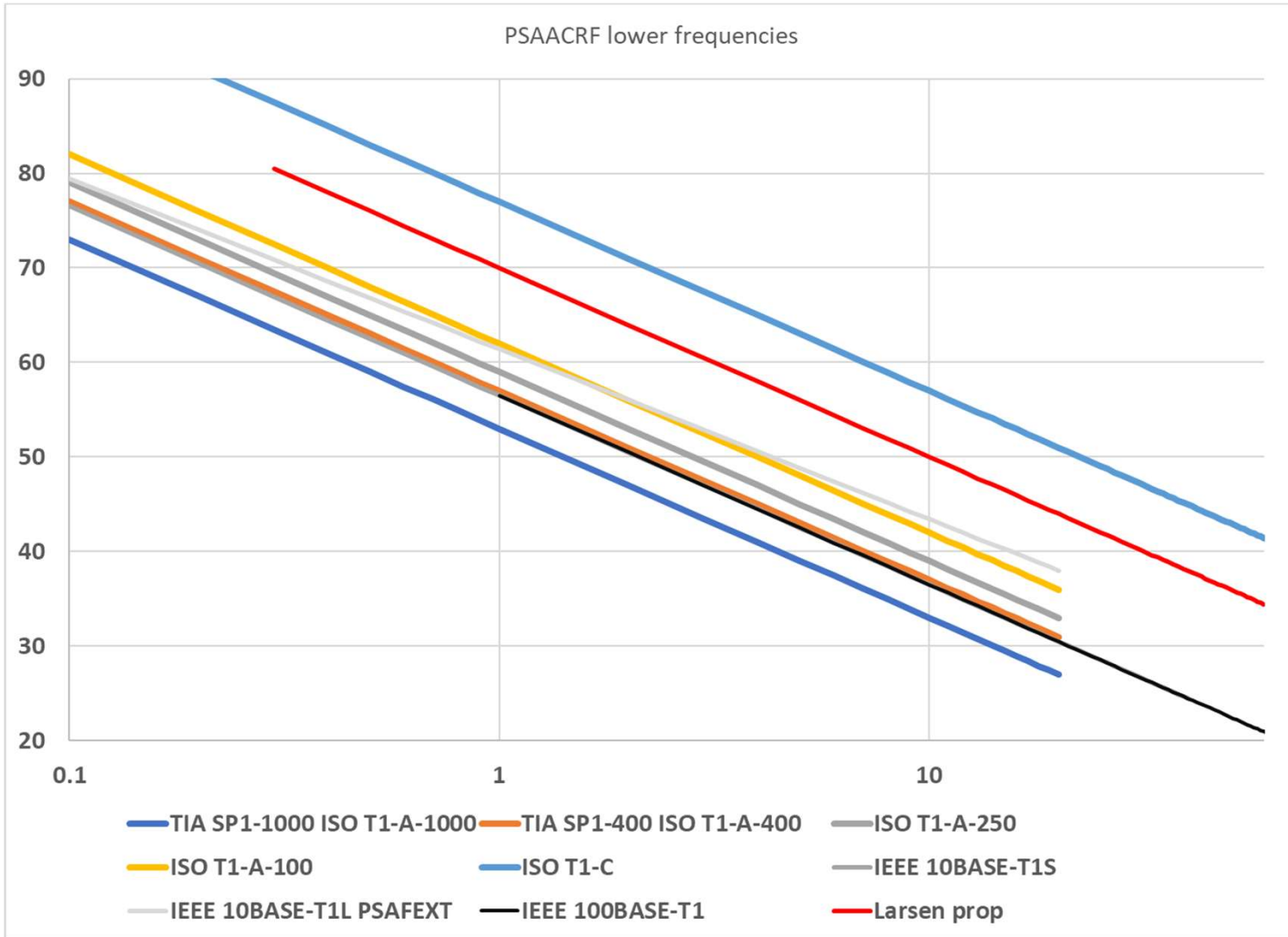
TCL channel and link segment requirements

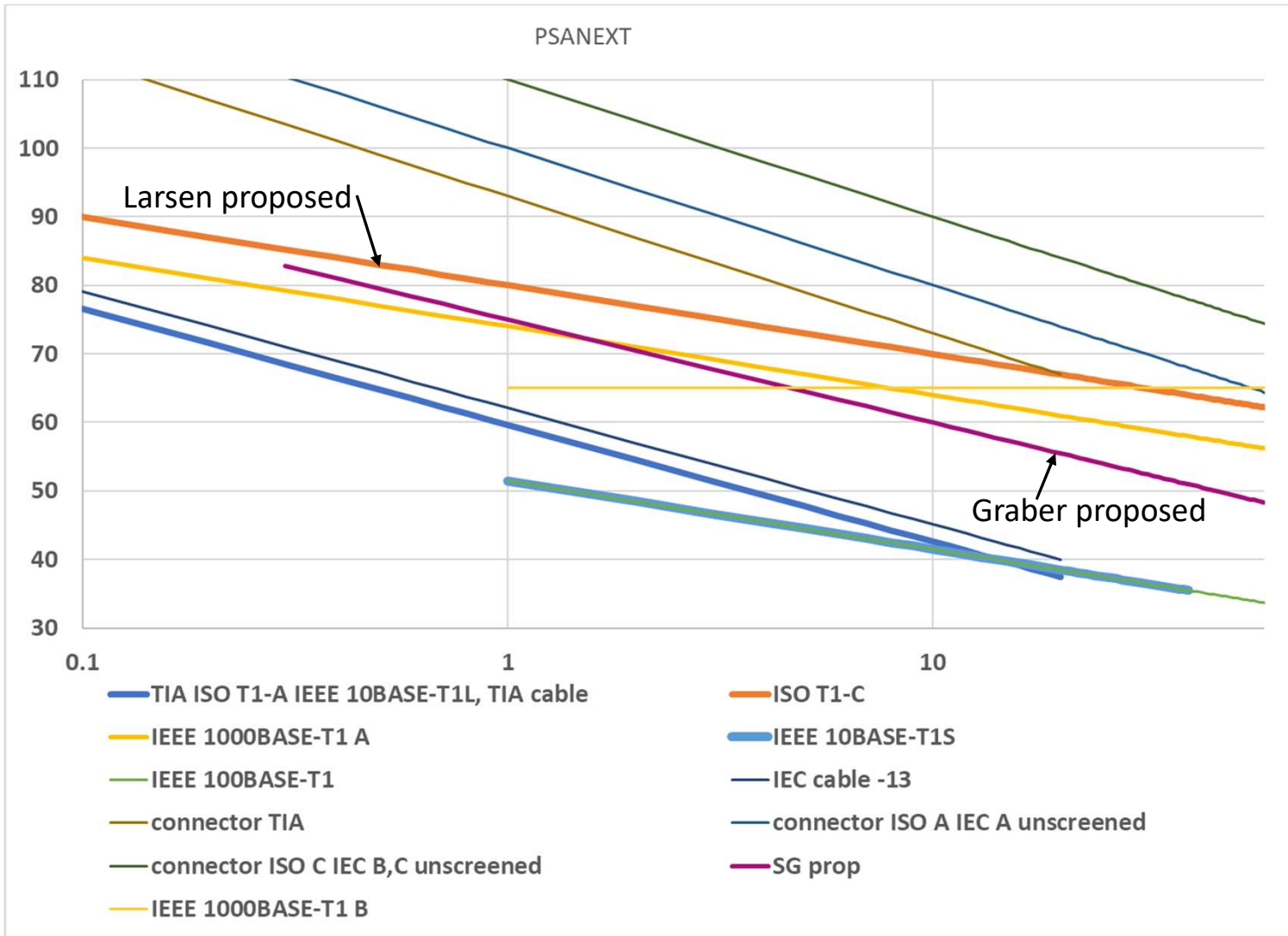












- Nothing to add to proposals from last time for delay and DC resistance
- Discussion