Some Data on Production Channels and Components and Prototype Components

Class 7A channels, and cat 6A and cat 8 RJ-45 connectors
Wayne Larsen, Commscope

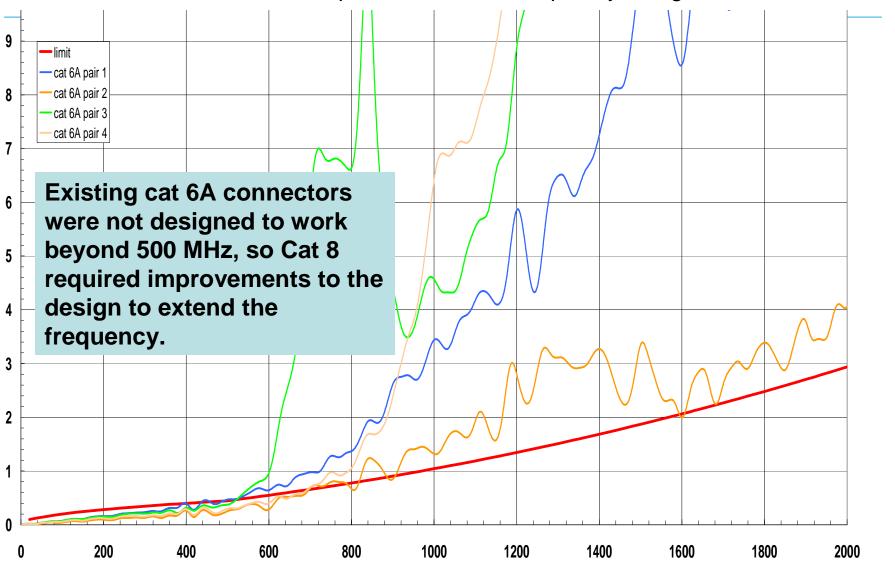
Supporters

- Paul Langer
- Kamal Dalmia
- George Zimmerman
- Pete Cibula
- Keith Kosanovich
- Peter Wu
- Paul Kish

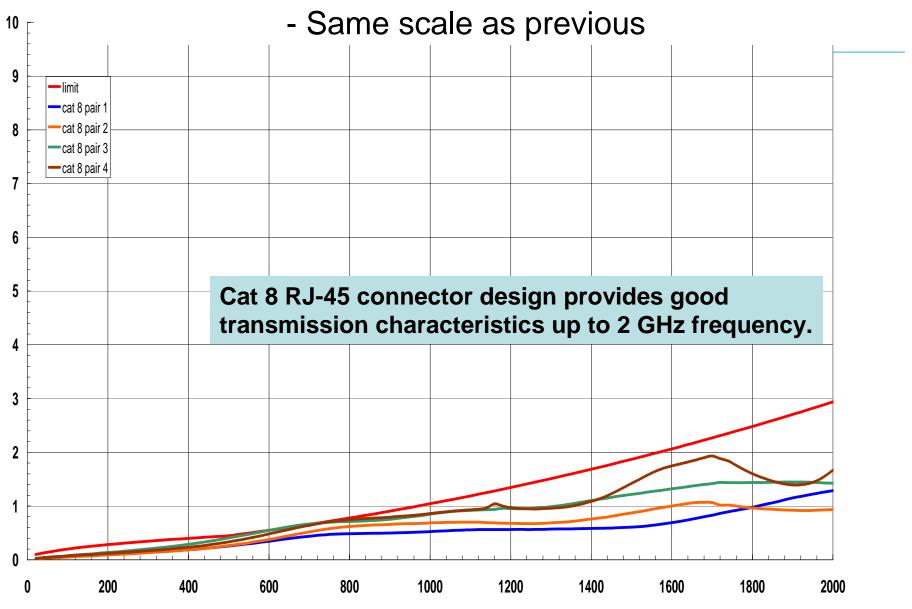
- Aquantia
- Aquantia
- CME Consulting
- Intel
- Leviton
- Marvell
- Belden

Insertion Loss of Cat6A Production Connectors to 2000 MHz

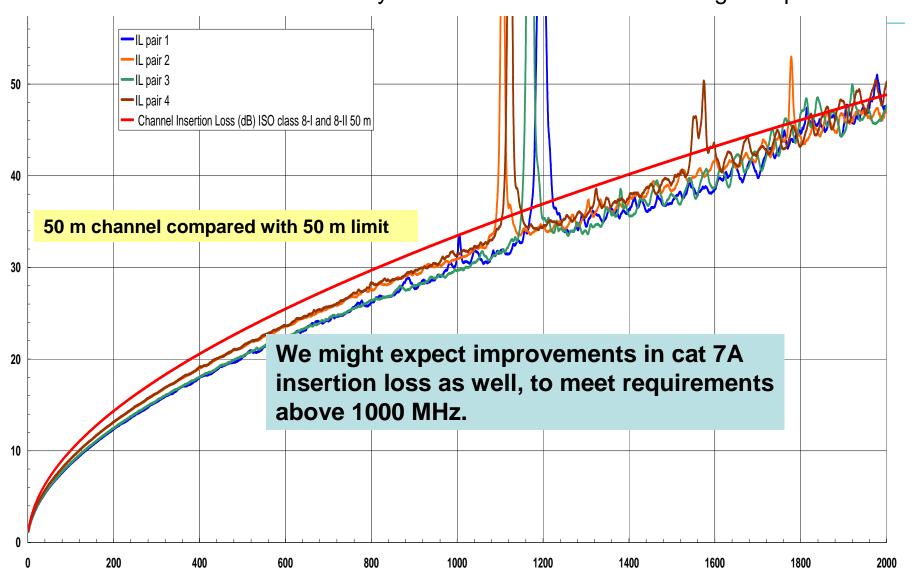
- Don't use old products to new frequency Ranges



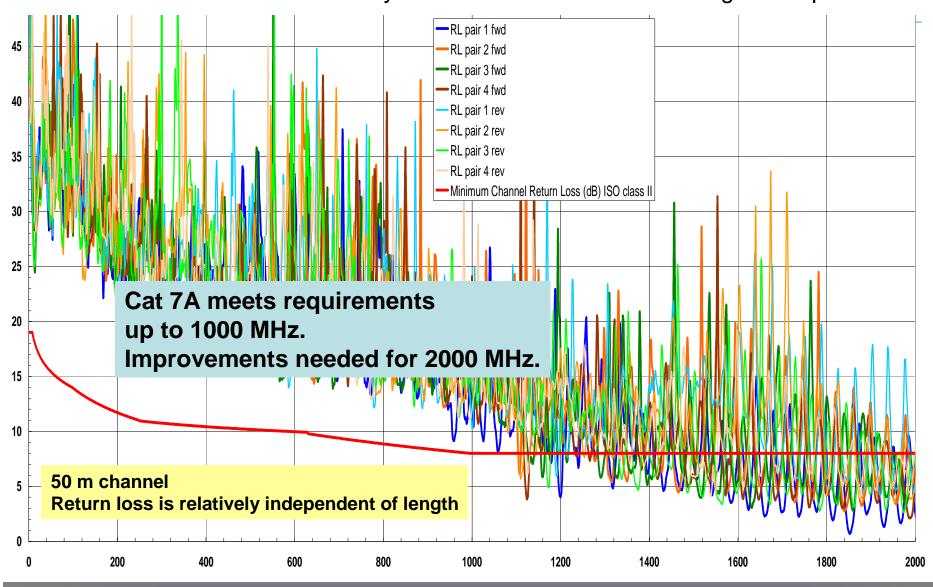
Insertion Loss of Cat8 Proto Connector



Insertion Loss cat 7A channel (1000 MHz) compared with ISO class II limit - Another illustration that old systems should not be used at high frequencies



Return Loss cat7A channel (1000 MHz) compared with ISO class II limit - Another illustration that old systems should not be used at higher frequencies



Conclusions

- Neither the cat 7A nor the cat 6A system will be suitable for use up to 2000 MHz, without changes.
- Both the ISO class I (similar to TIA cat 8, based on 6A) and the ISO class II (based on cat 7A) are likely to eventually be suitable for use up to 2000 MHz.