

Feasibility of 4 Pair power/Gigabit Ethernet in the Midspan

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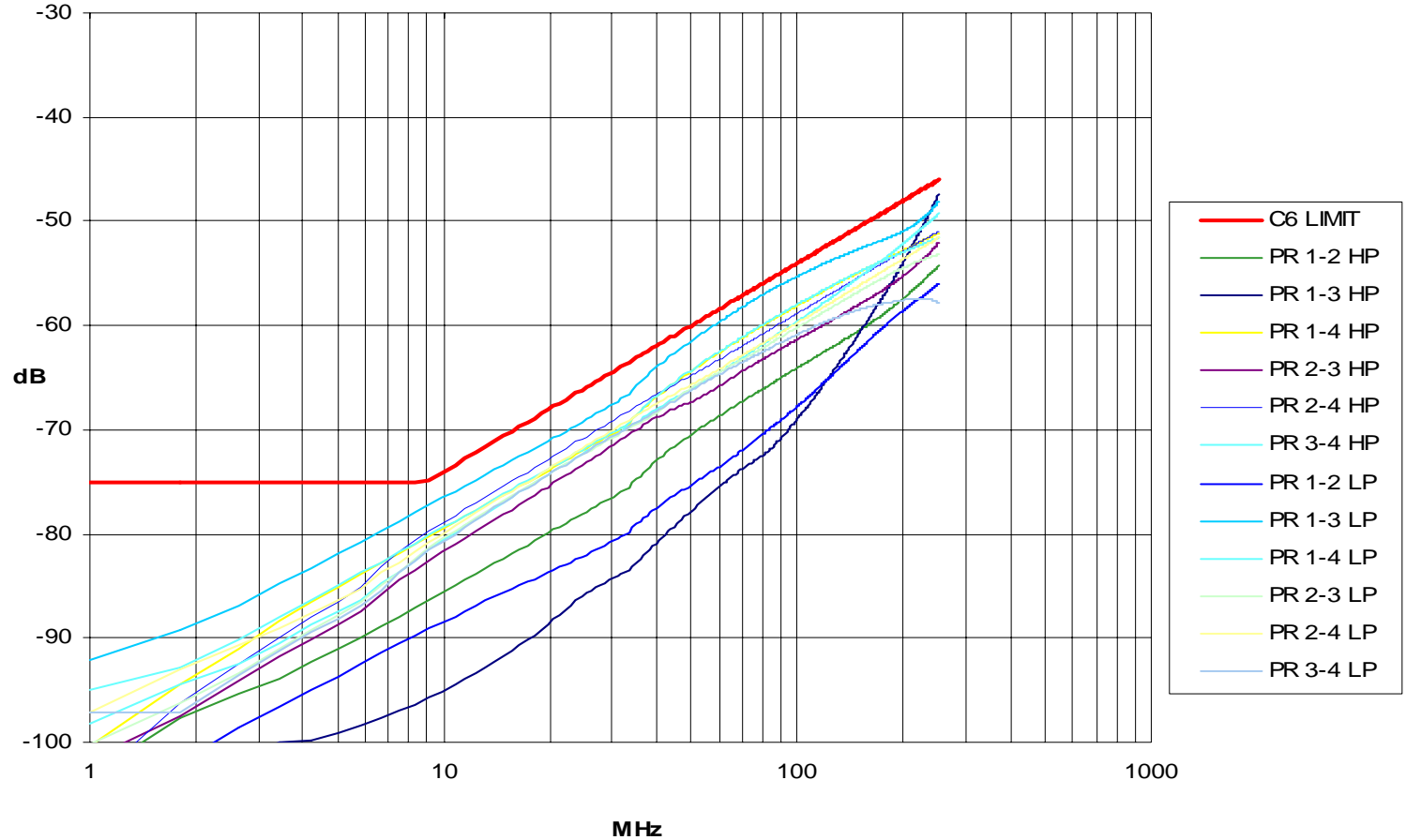


Summary

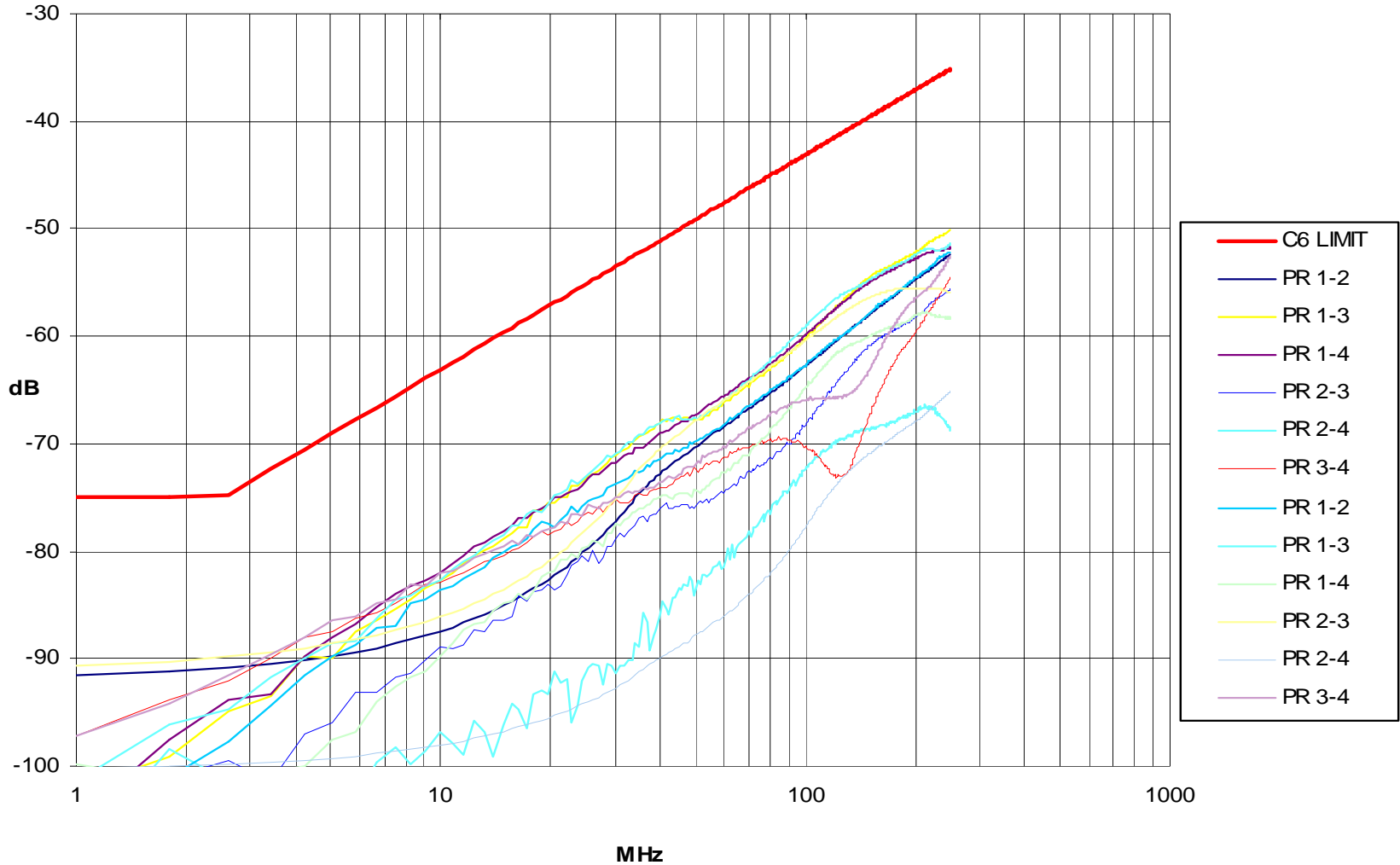
- All measurements were tested to TIA/EIA- 568-B.2-1
- All conductors had blocking capacitors on the RJ-45 side (towards the switch).
- All pairs had center tap chokes used to insert the DC.

NEXT

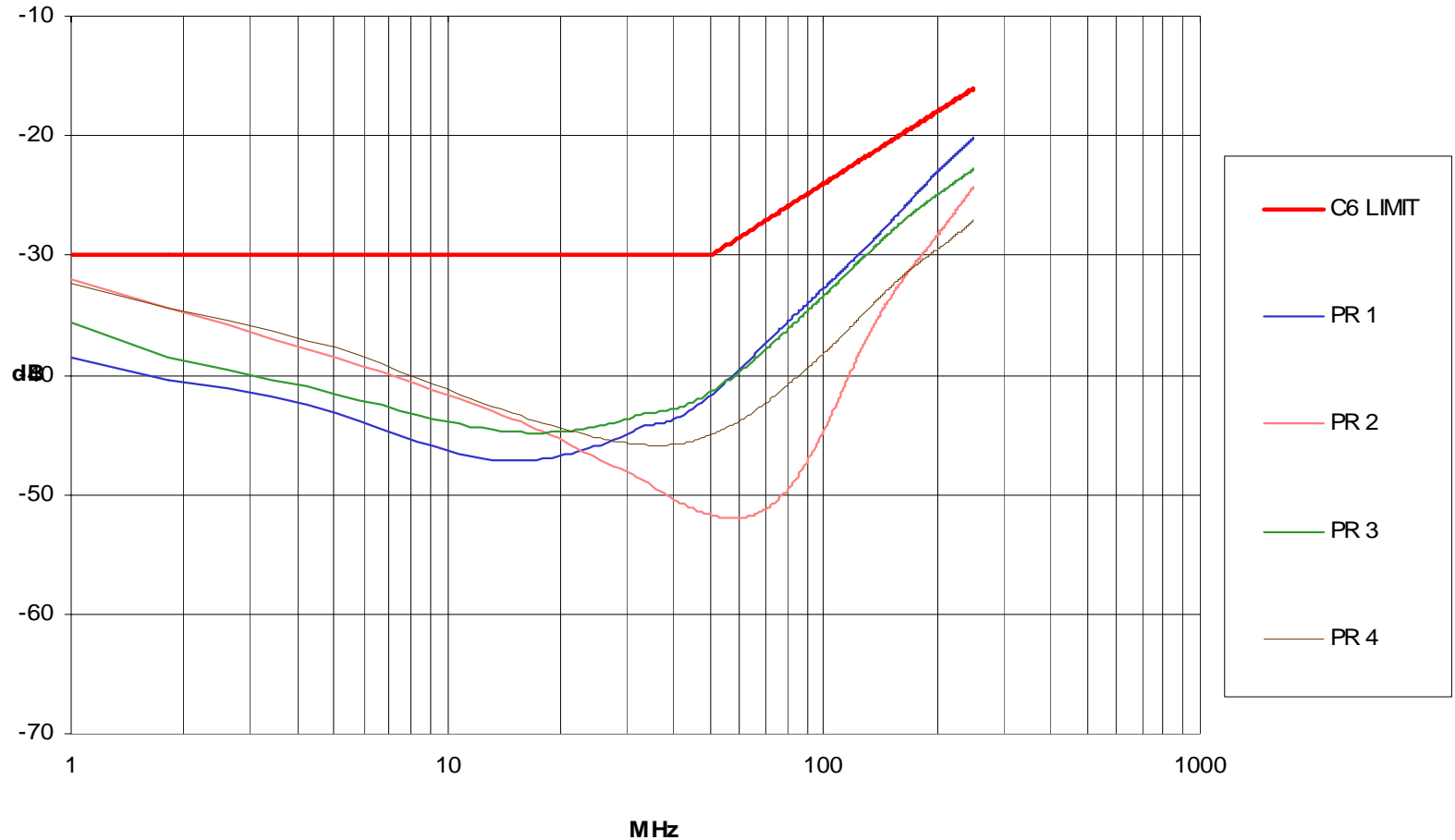
(tested with high and low plugs)



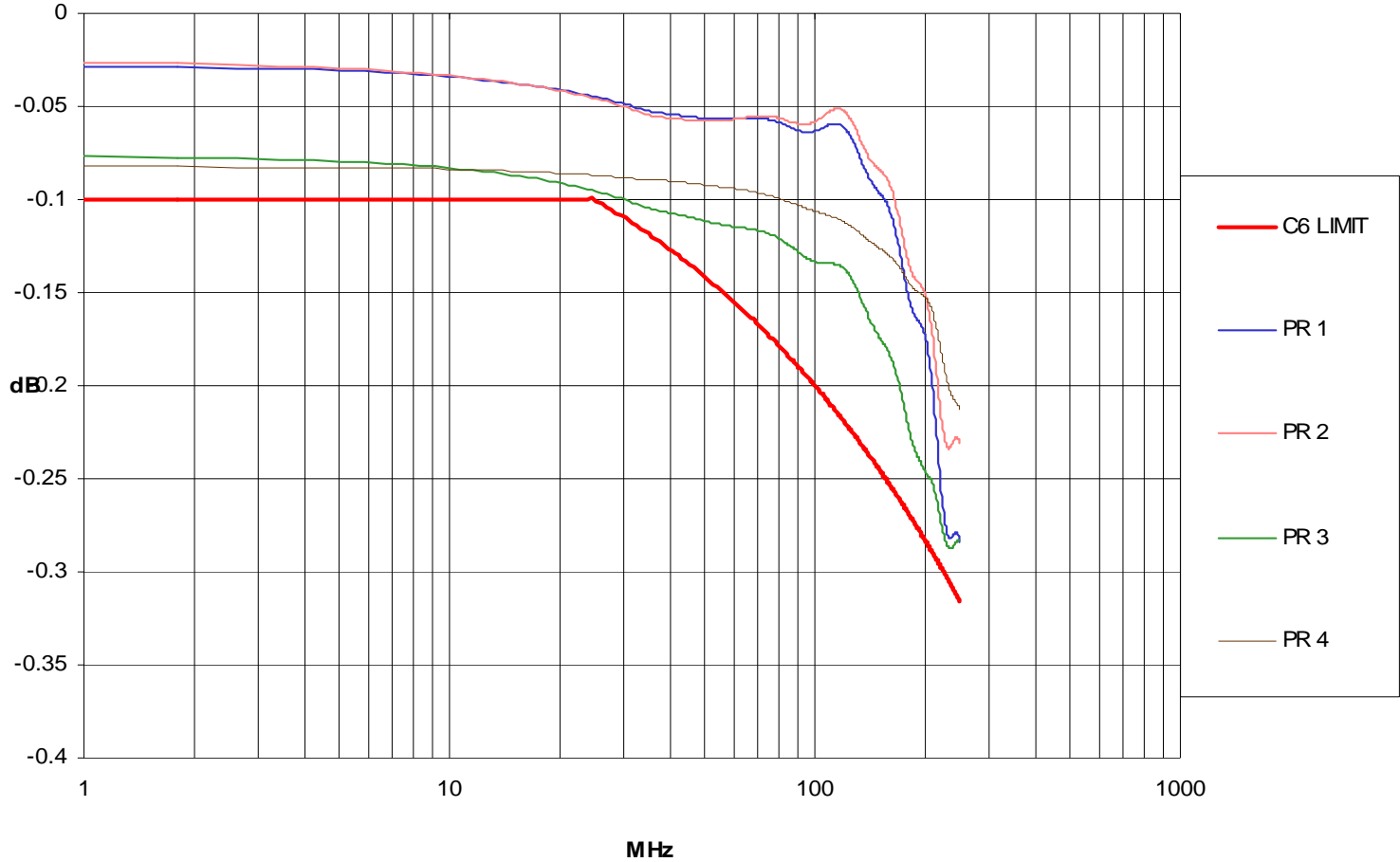
FEXT



Return Loss



INSERTION LOSS



Conclusion

- A Category 6 (class E) 4 pair midspan is achievable
- With signal continuity on all 4 pairs Gbe(+) is supported

