

Addressing the CommScope comment on 97B.1.1 page 205 line 35:

The requirement for 200 Ω common mode termination on far ends is onerous and unnecessary, as will be shown in a simple presentation.

Change: Link segment ends not under test are terminated in 100 Ω differential mode and 200 Ω common mode. To: Link segment ends not under test are terminated in 100 Ω differential mode and ≤ 200 Ω common mode. This would also apply to deleting the note on page 206 line 13.

200 Ω requires extensive testing or unique termination heads

First a simple estimation:

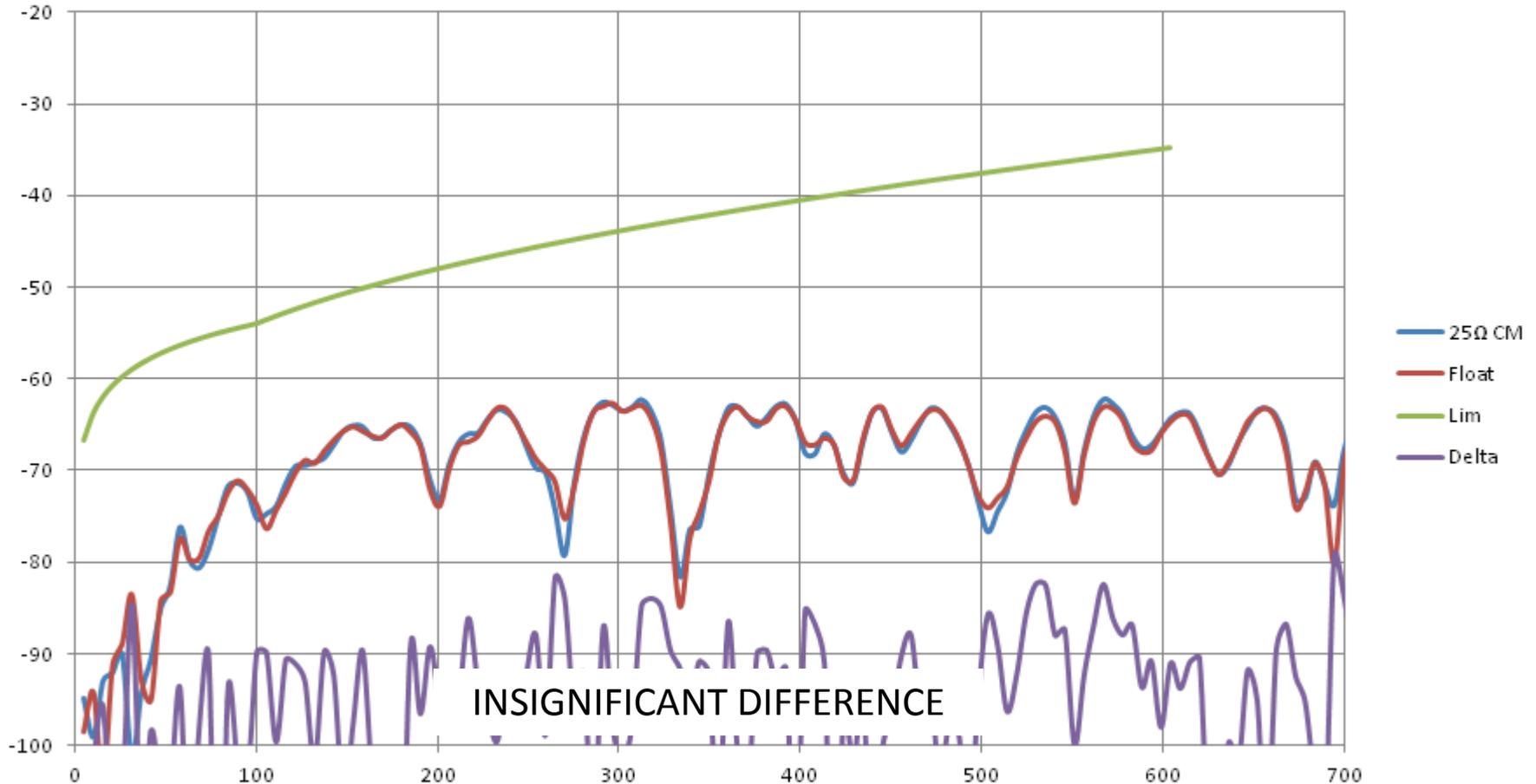
Balance specification @ 600 MHz > 40 dB loss

- So common mode into adjacent cable >> 40 dB
- And converted to alien differential >> 40+40 or 80 dB loss
- Which should be insignificant anyway, but the common mode reflections (which is what would change) then converted are even smaller

Then a direct measurement comparison:

- An alien NEXT scan (not power sum) with far end at a **25 Ω** termination
- A re-scan with the far end test heads **FLOATING** * (roughly **600 Ω**)

* The test heads are disconnected from ground and lifted 10 mm away



Same for Alien FEXT:

