

IEEE P802.3da D2.0 10 Mbps Multidrop Enhancements

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Comment Type TR Comment Status A Mixing Segment

Channel Return Loss Limit and TCI Return Loss Limit crossing each other at 22.2 MHz and 36.9 MHz. Within this range, the Channel Return Loss Limit is higher than the TCI Return Loss Limit. This can lead to a case, where the TCI specification is met but the channel specification is not met caused by the TCI.

SuggestedRemedy

Change Return Loss Limit in the frequency range from 2.8 MHz $\leq f \leq$ 40 MHz from: "-42.5-20*log10(f)-(0.024/f)+47.5*sqrt(f)-6.39*f+0.0259*f^2" to: "-45.8-20*log10(f)-(4.3/f)+53*sqrt(f)-8*f+0.046*f^2"

Response Response Status U

ACCEPT IN PRINCIPLE.

Change Mixing Segment Return Loss to:
19.5 - Max (0, 25*log10(F/12.5) dB for 40 MHz > F > 6.8 MHz
0.65 + Max (0, .65+30*log10(F/1.6)) dB for 0.3 < F < 6.8 MHz

Editorial license to reformat equation per other comments and 802.3 style.