Single Mode Fibre Parameters

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Introduction

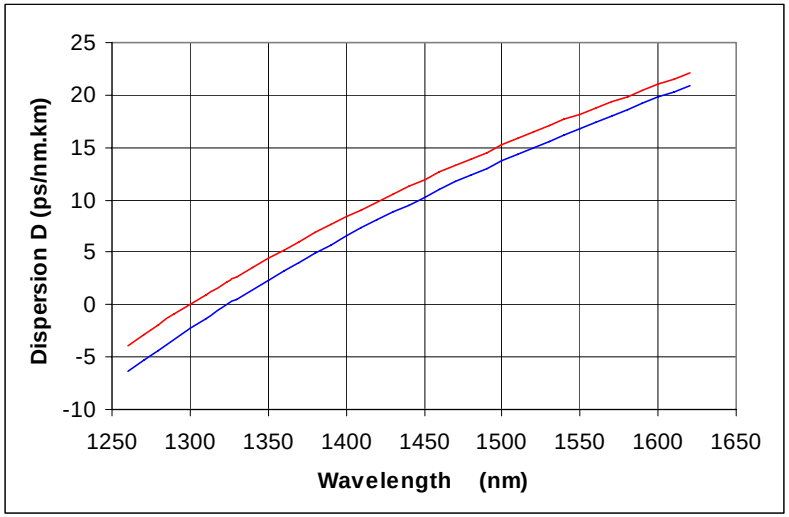
During the HSSG meeting in Monterey a method for calculating the skew due to multi-wavelength operation over single mode fibre was presented in anslow_01_0107.pdf and associated spreadsheet anslow_02_0107.xls.

A second presentation in the Orlando meeting anslow_01_0307.pdf added loss vs wavelength information to the spreadsheet contained in anslow_02_0307.xls

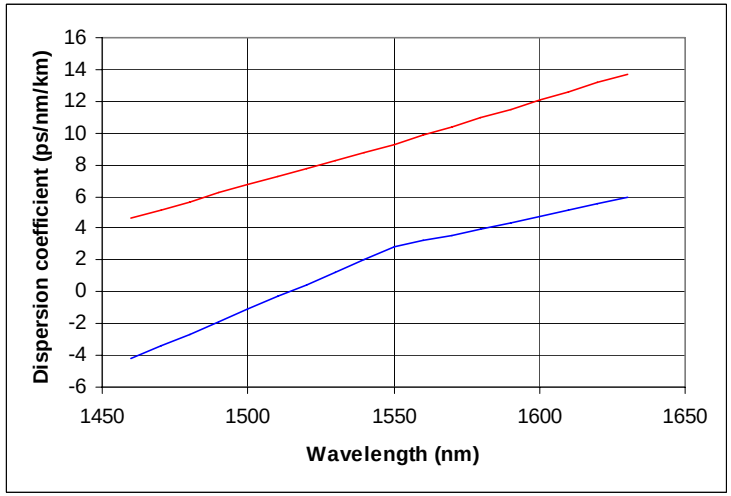
During these meetings the HSSG requested that the FO Ad-Hoc look at the information contained in the spreadsheet and if it is agreed to be adequate, report back to the HSSG with a view to placing the agreed spreadsheet in to a “Tools” directory on the HSSG web site.

Data in the spreadsheet - Dispersion

The spreadsheet includes - the dispersion limits from G.652 and G.655



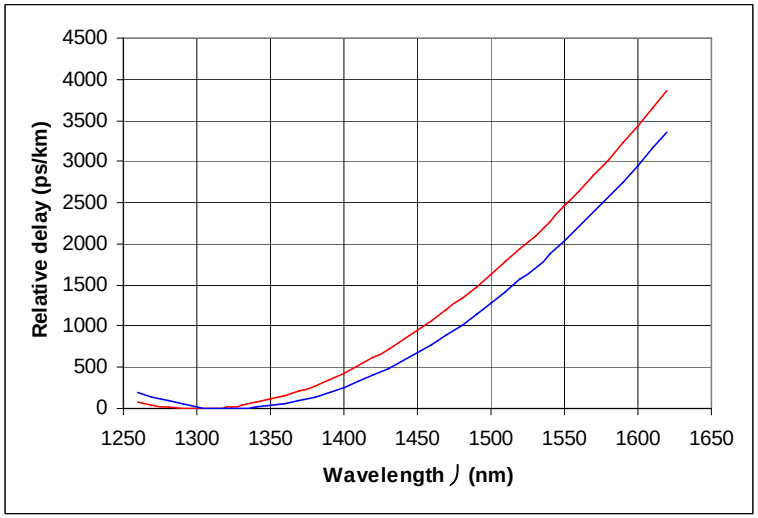
G.652



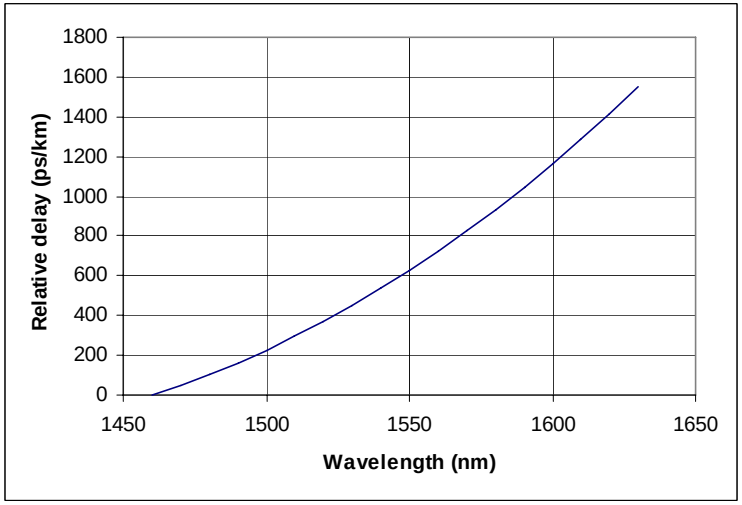
G.655

Data in the spreadsheet - Skew

- the skew calculated for G.652 and G.655



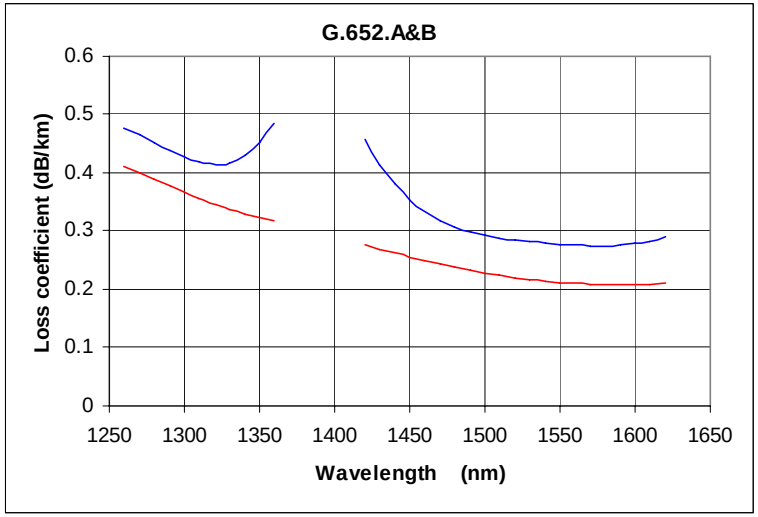
Relative delay G.652



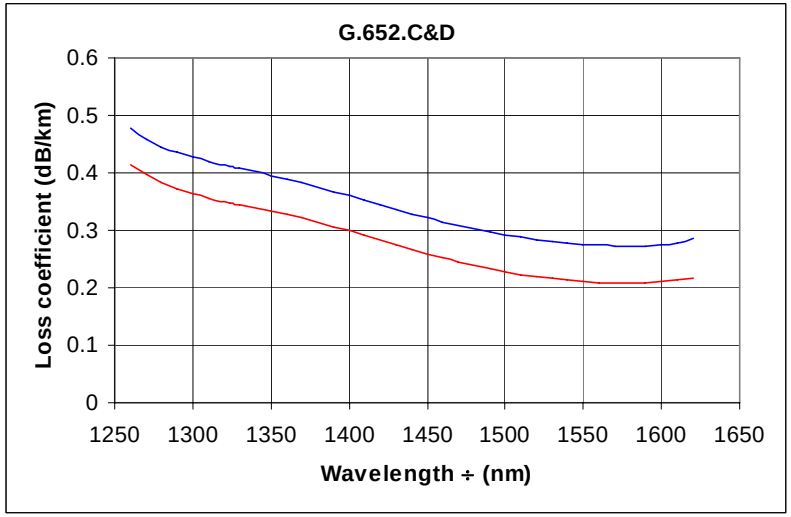
Relative delay G.655

Data in the spreadsheet - Loss

- the loss for G.652.A&B and G.652.C&D



Loss for G.652.A&B



Loss for G.652.C&D

Conclusion

The intention of generating an agreed spreadsheet is to define a set of common assumptions for fibre dispersion, skew and loss that can be used by all contributors to the HSSG when assessing the technical feasibility of the various approaches to 100 Gbit/s Ethernet.

Please therefore review the spreadsheet that accompanies this presentation and raise any issues that you have with its contents so that we can generate a version that is agreed by the FO Ad-Hoc.

Thanks!

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