Crosstalk Issues resolution 99-111r5

3% crosstalk using 1600 mV Peak-Peak or 110 ohm cables allows 48 mV crosstalk.

Current mode drivers will have higher voltage with the 140 ohm cables allowed in 99-111r3. 99-111r5 reduces the level to 135 ohm maximum.

140 ohm cables, the current mode driver will develop 2054 mV peak-peak, 3% crosstalk is 62 mV, over the SPI-3 60 mV limit for crosstalk and system noise. The reduction to 135 ohms reduces the crosstalk below the 60 mV limit.
Note from 99-111r5

• Note: 3.0% NEXT yields 58.9 mV peak max at 1963 mV pp aggressor signal amplitude (135 ohm max cable impedance at 7.3 mA max driver current).

• The cross talk requirement is based only on percentage as that is all the cable can influence.