

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 ~~100~~ 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.