CROSSTALK TEST SETUP

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┌─────────┐
│         │
│ DRIVER  │─────────┬──────────┬──────────┬────── T
│         │         │          │          │
└─────────┘      ┌──────┐   ┌──────┐   ┌──────┐
                 │ LOAD │   │ LOAD │ ......│ LOAD │
                 └──────┘   └──────┘   └──────┘
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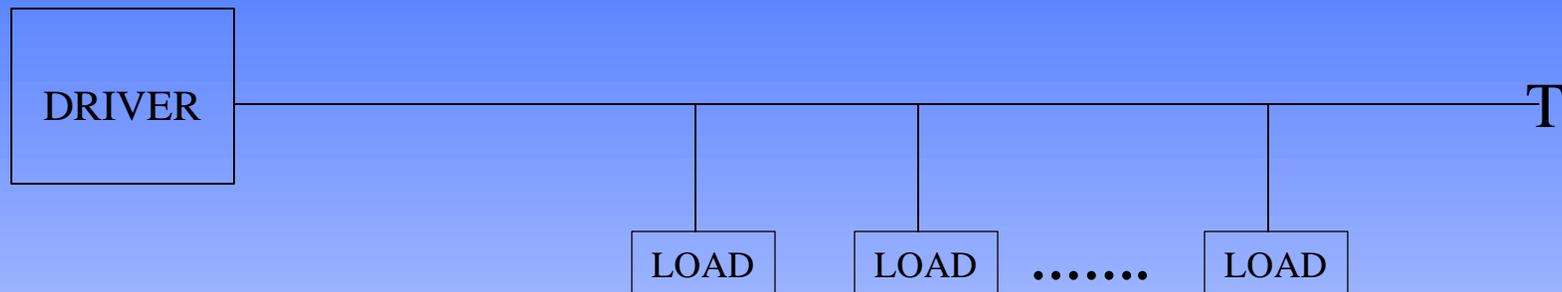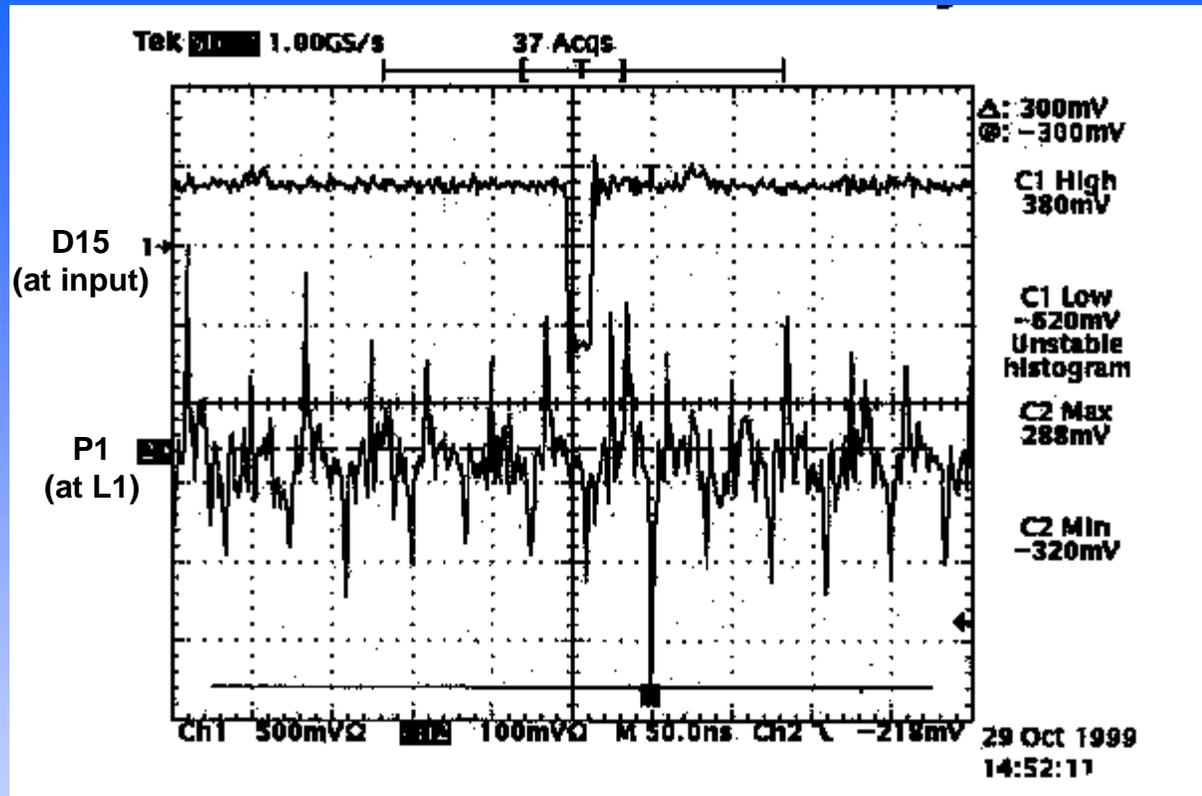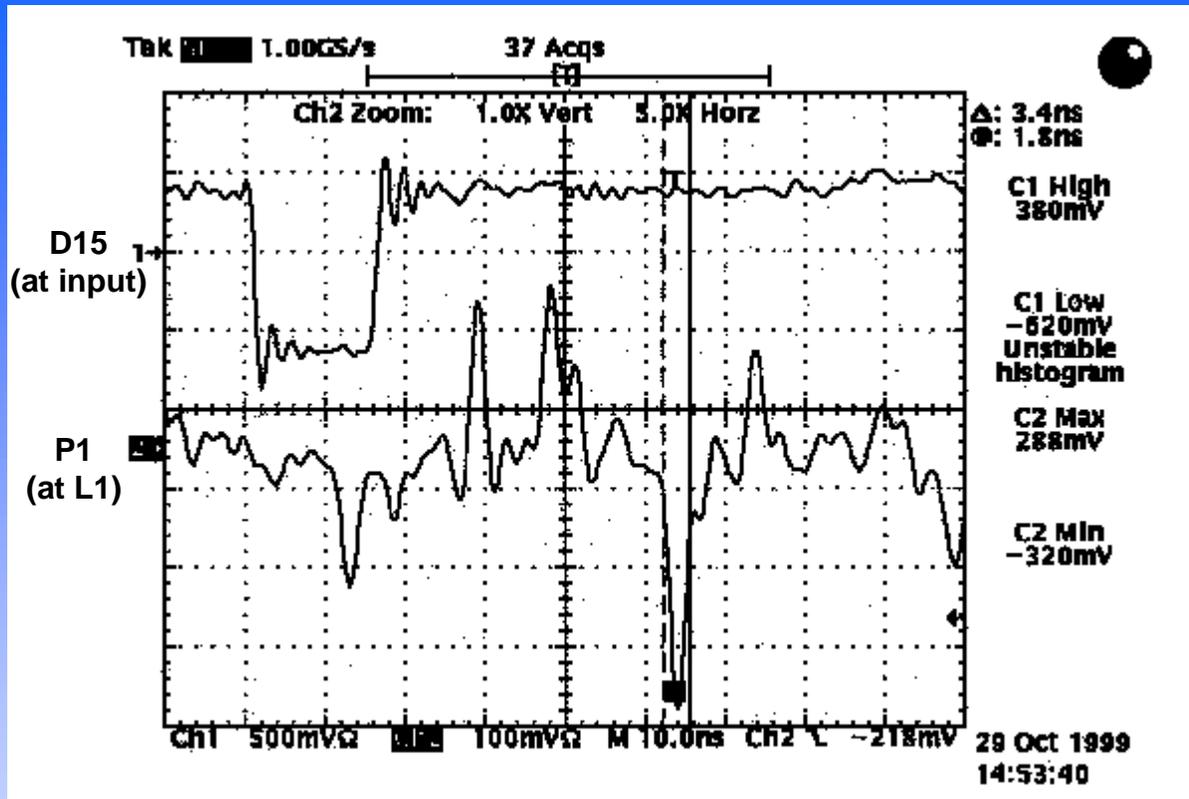•ALL DATA LINES AND ACK DRIVEN
•VICTIM LINE IS P1 (P1 IS TRI-STATE, NOT DRIVEN)
•DATA PATTERN ON EACH LINE IS A1, N2; A1, N3; A1, N4 ETC FOR LOW BYTE
•AND REVERSED FOR THE HIGH BYTE.
•ALL SIGNALS ARE MEASURED WITH DIFFERENTIAL PROBE.
•LOADS ARE PASSIVE 15 PF LOADS.

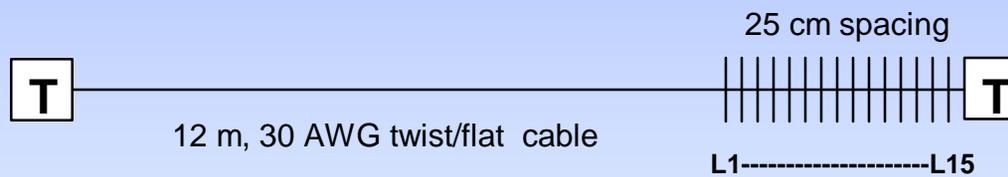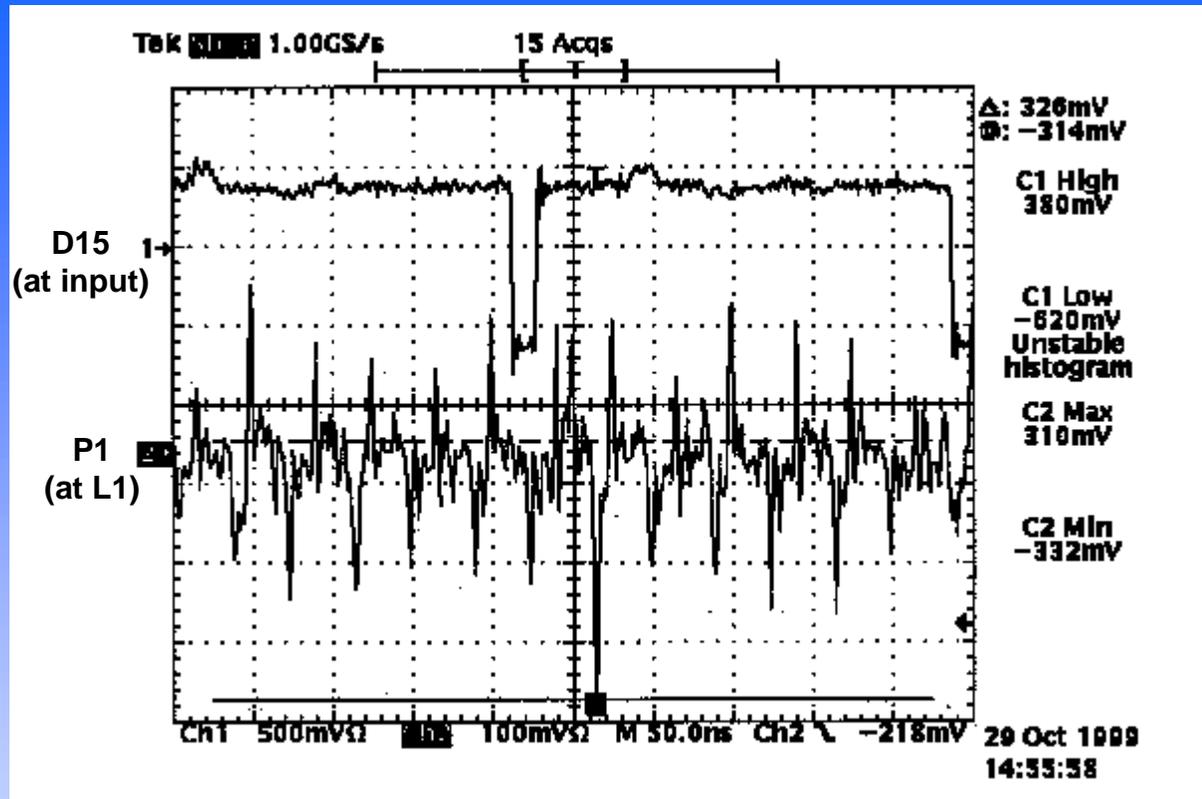adaptec®

D15 (at input)

P1 (at L1)

50 cm spacing

T —————————————— |||||||||| T

12 m, 30 AWG twist/flat cable

L1 - - - - - - - -L8
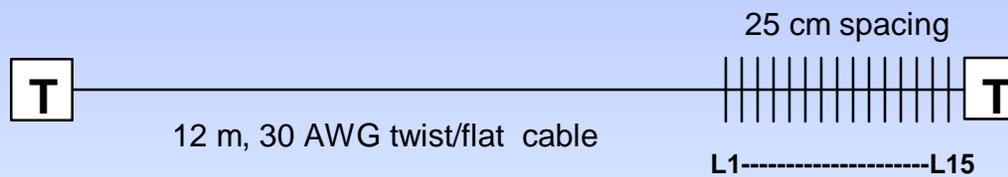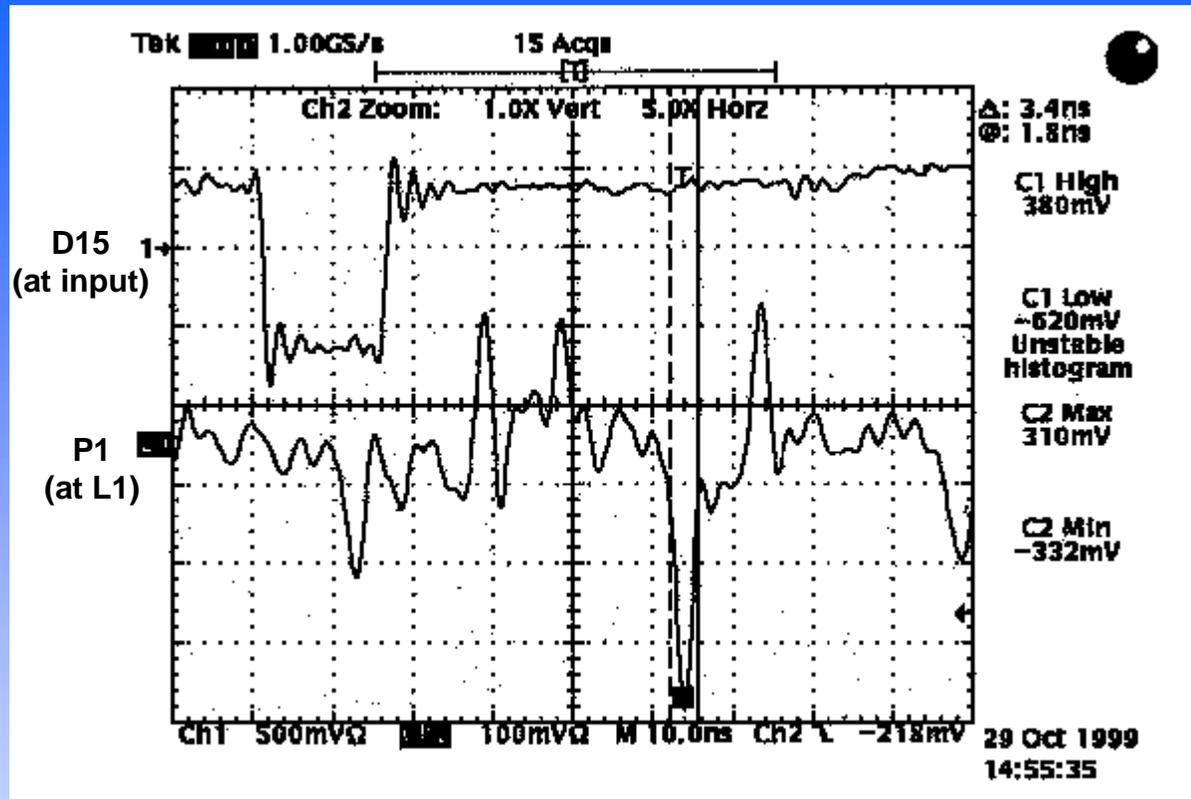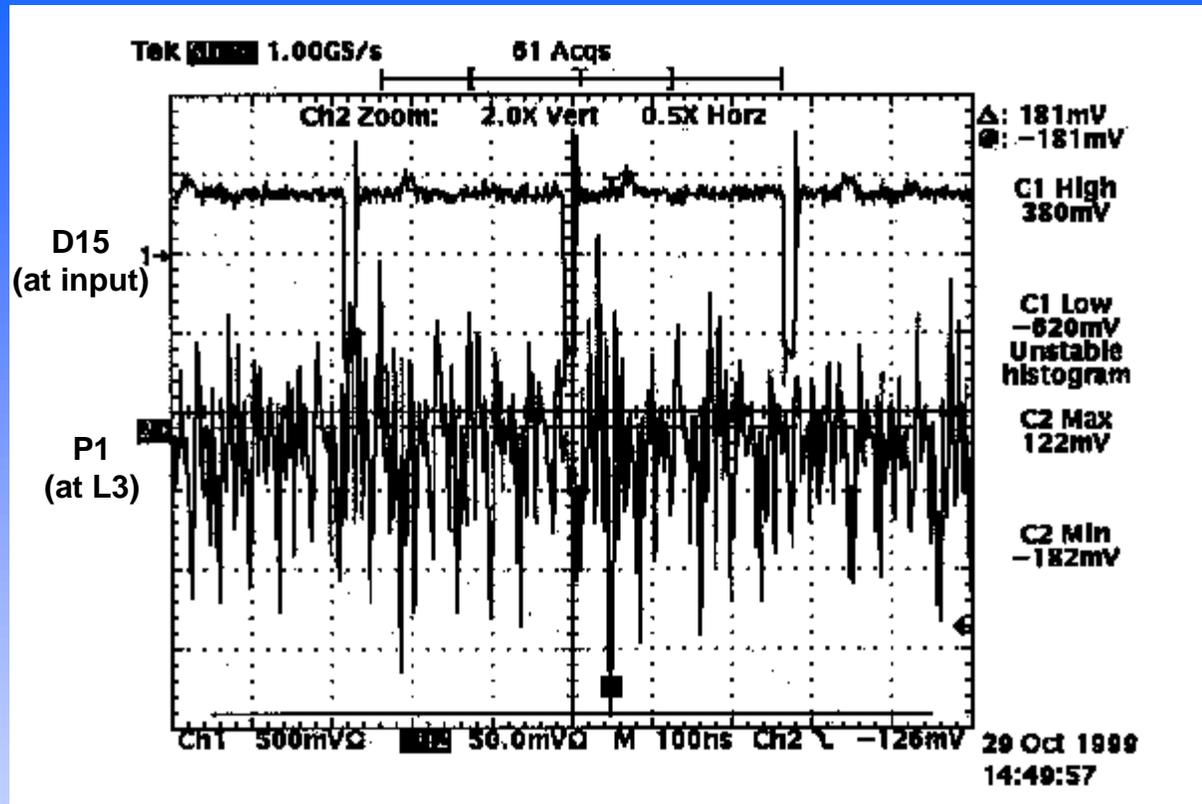
Crosstalk at P1, with 8 loads

looking @ L1

Crosstalk at P1, with 8 loads

looking @ L1   (ZOOM)

Crosstalk at P1, with 15 loads
looking @ L1
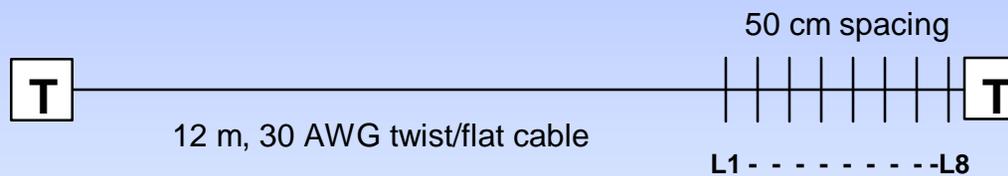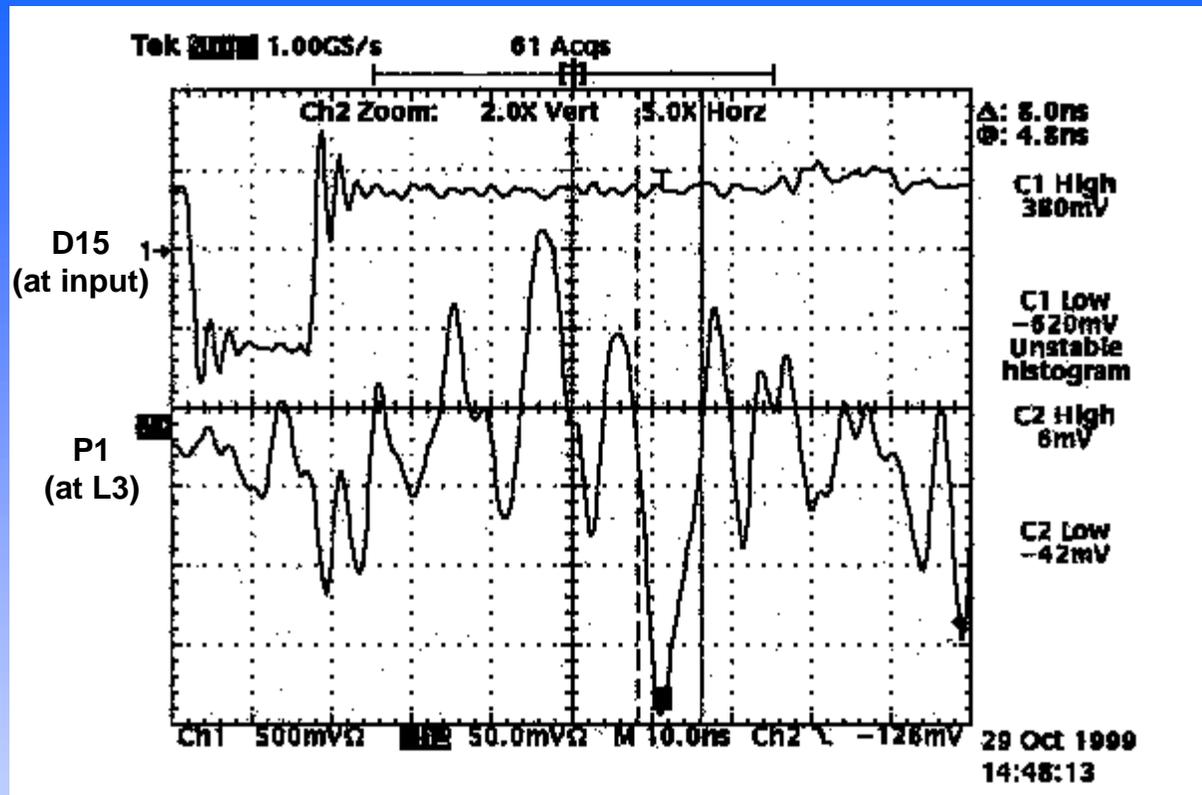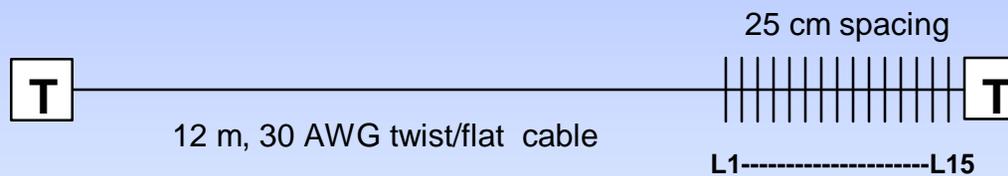
Crosstalk at P1, with 15 loads
looking @ L1   (ZOOM)
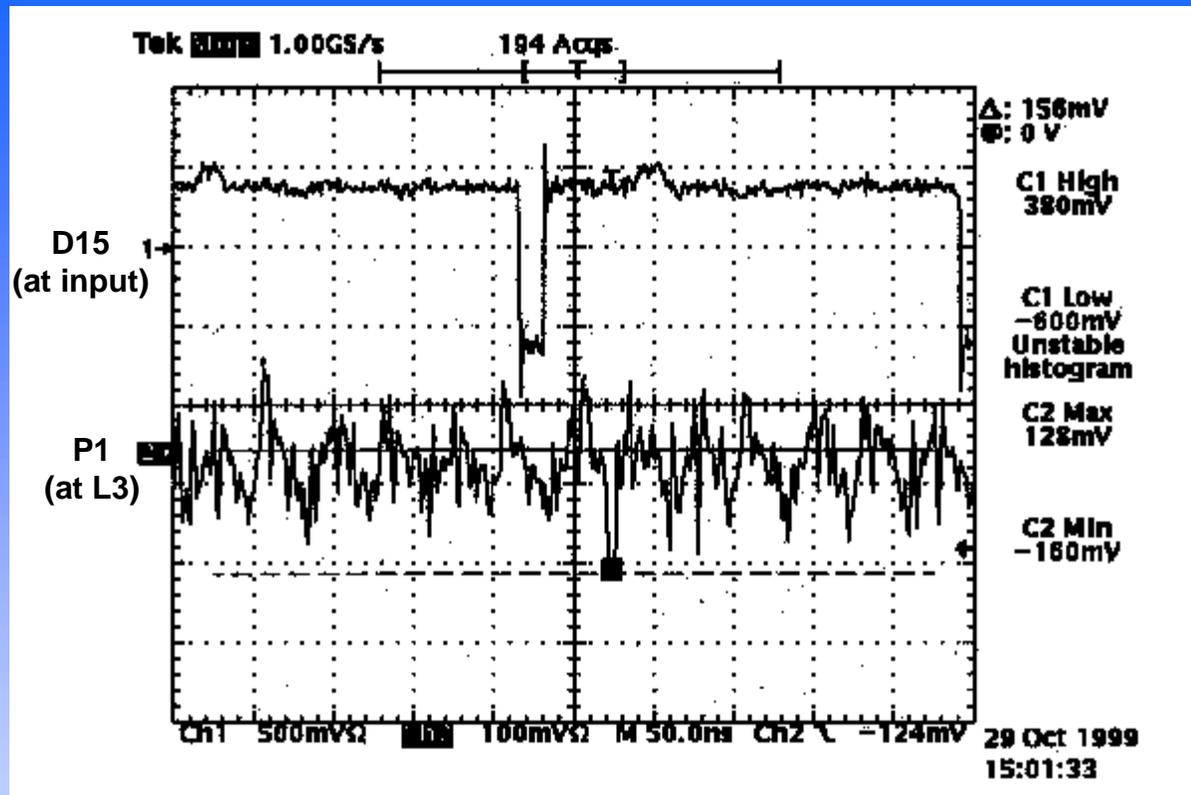
Crosstalk at P1, with 8 loads
looking @ L3

Crosstalk at P1, with 8 loads

looking @ L3   (ZOOM)

50 cm spacing

12 m, 30 AWG twist/flat cable

L1 - - - - - - - -L8

Crosstalk at P1, with 15 loads

looking @ L3

Crosstalk at P1, with 15 loads
looking @ L3   (ZOOM)

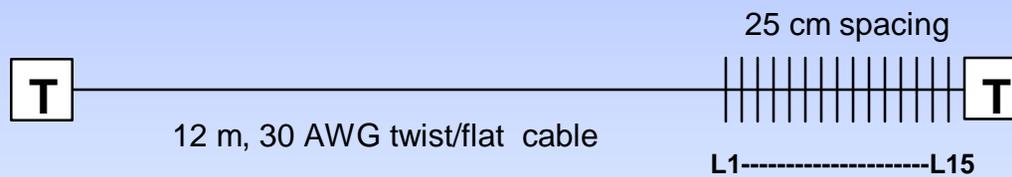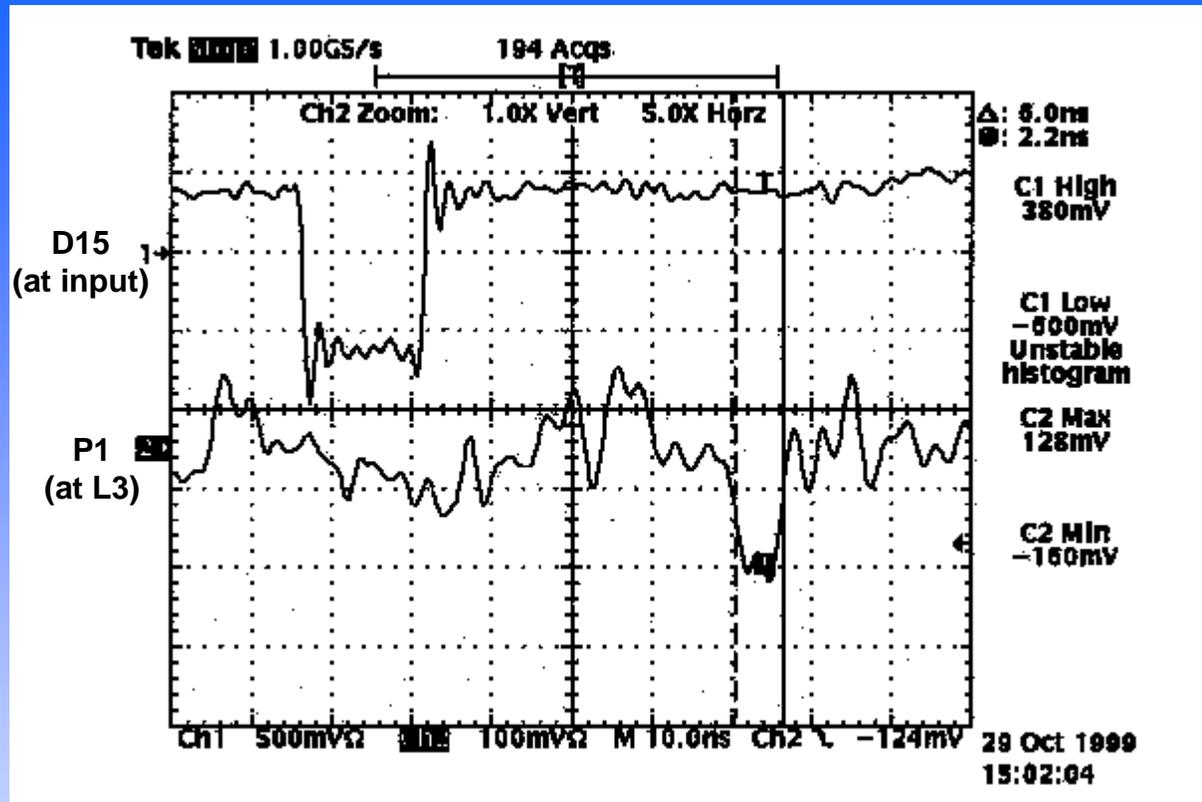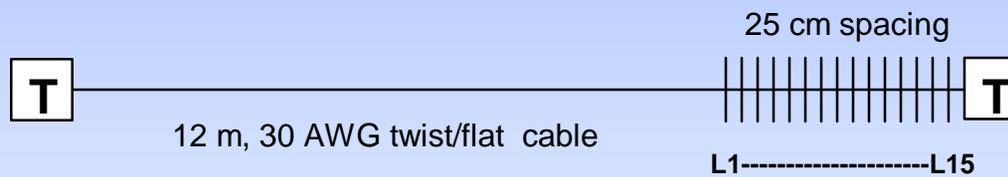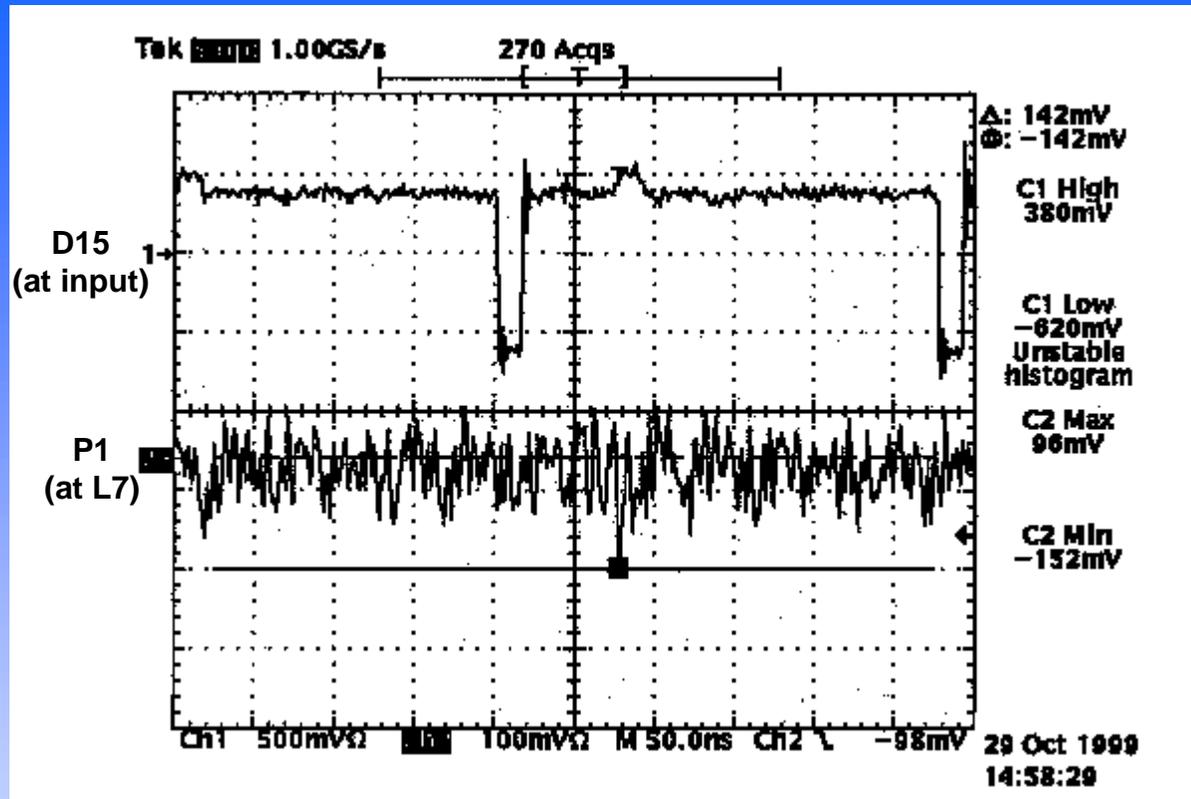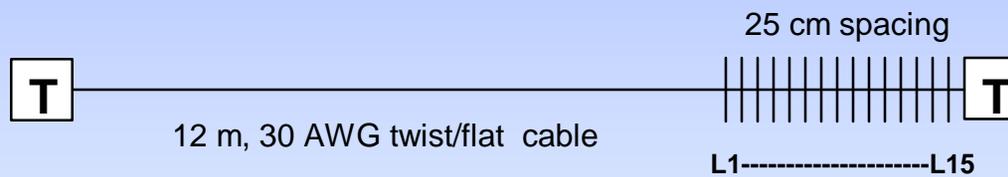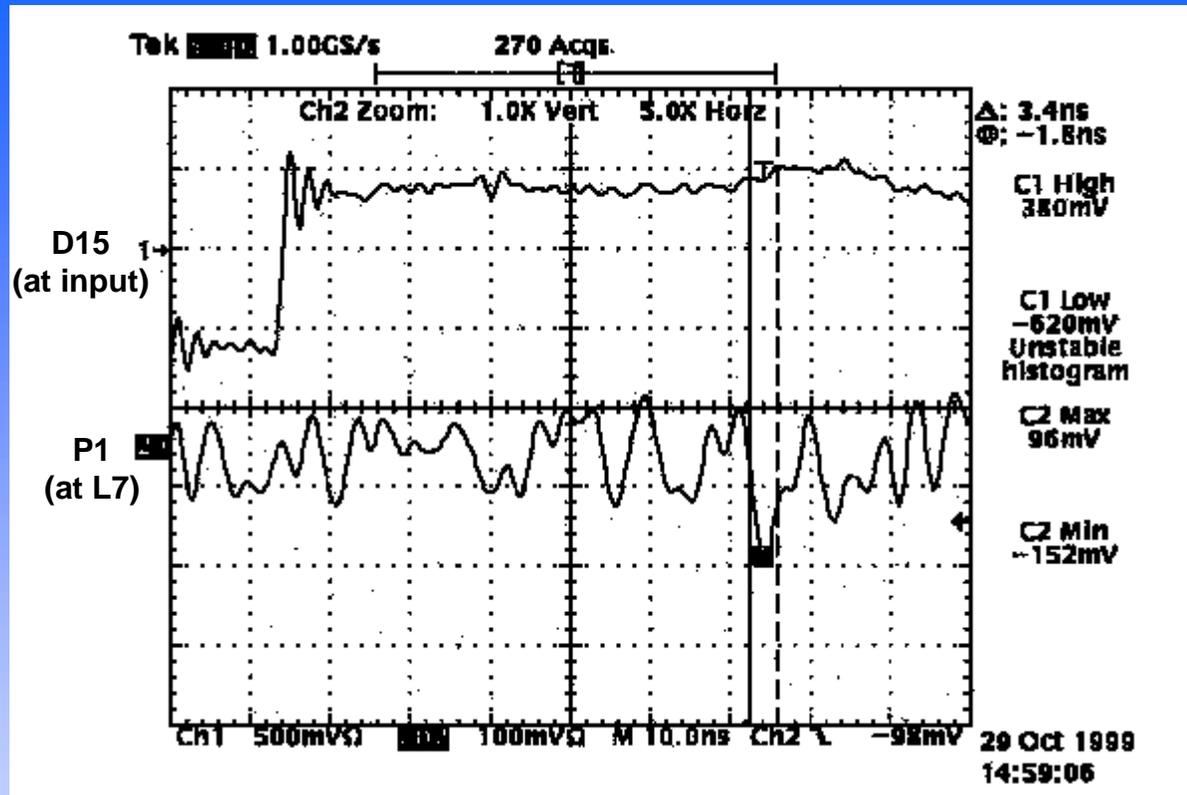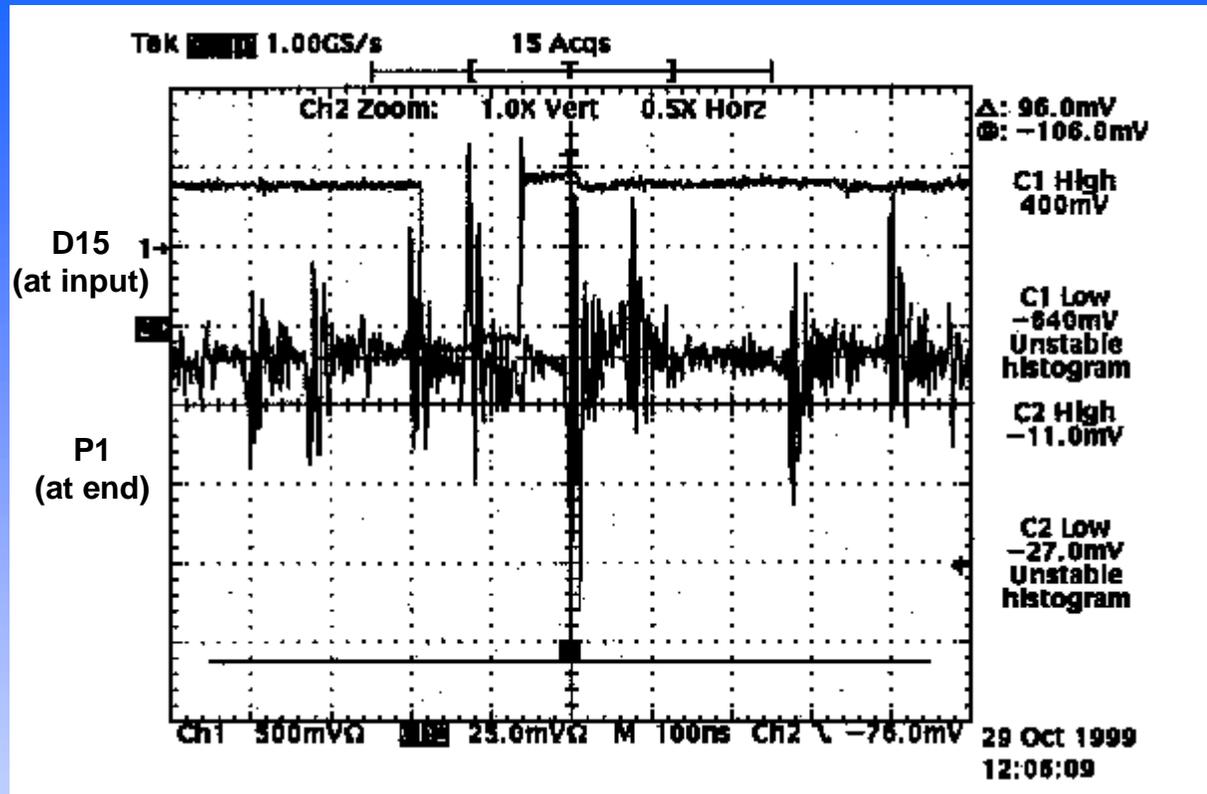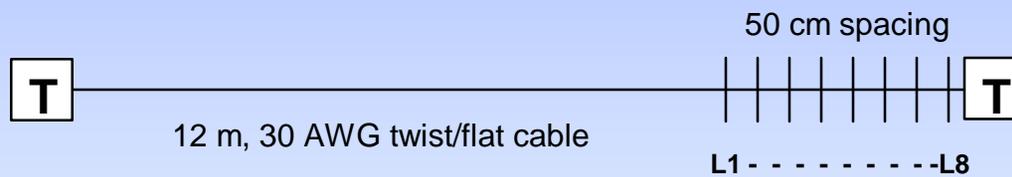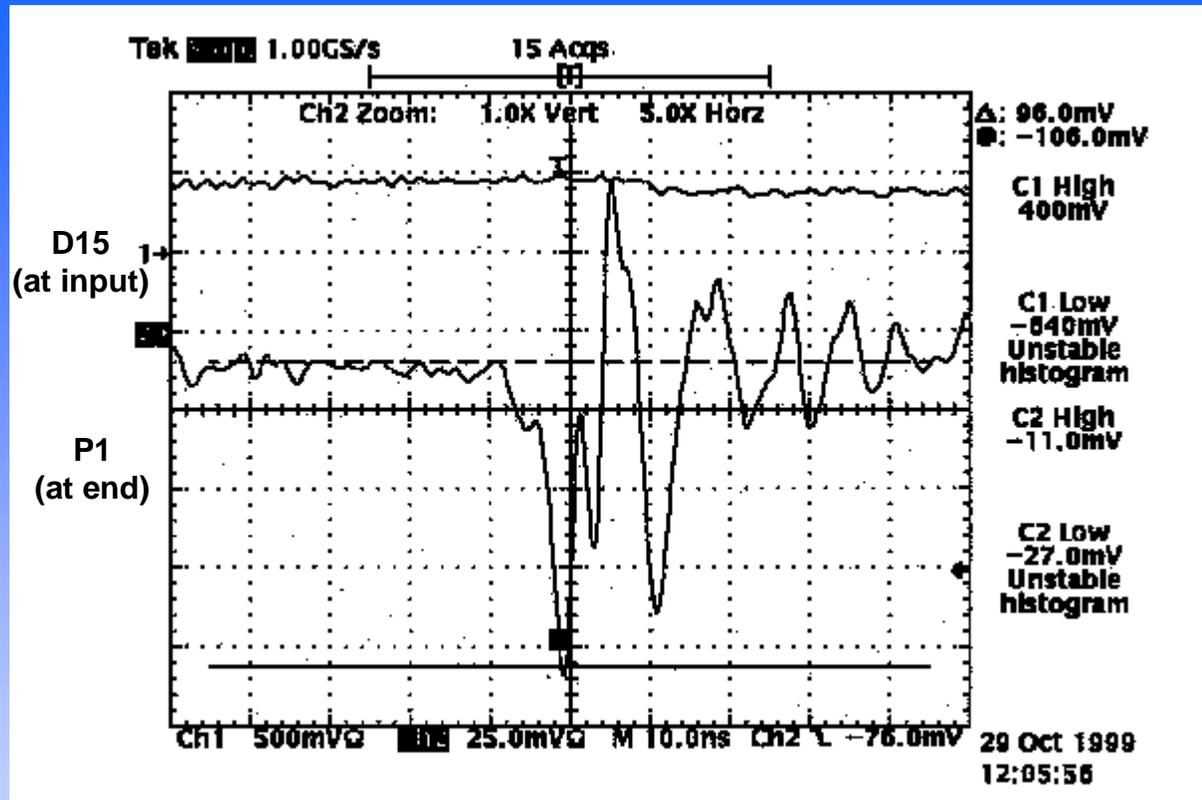Crosstalk at P1, with 15 loads

looking @ L7

Crosstalk at P1, with 15 loads looking @ L7 (ZOOM)

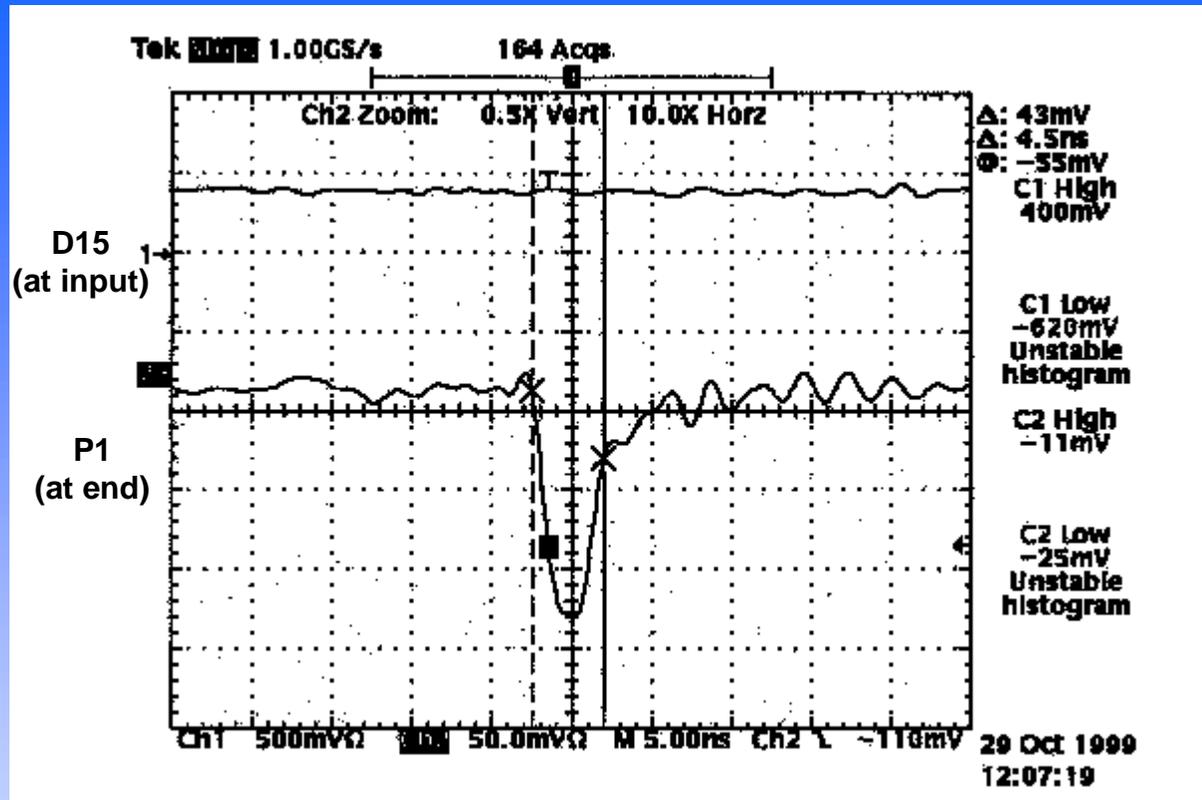**Crosstalk at P1, with 8 loads**

looking @ end

D15
(at input)

P1
(at end)

50 cm spacing

T ———————————————|||||||— T

12 m, 30 AWG twist/flat cable

L1 - - - - - - - - -L8

Crosstalk at P1, with 8 loads

looking @ end   (ZOOM)
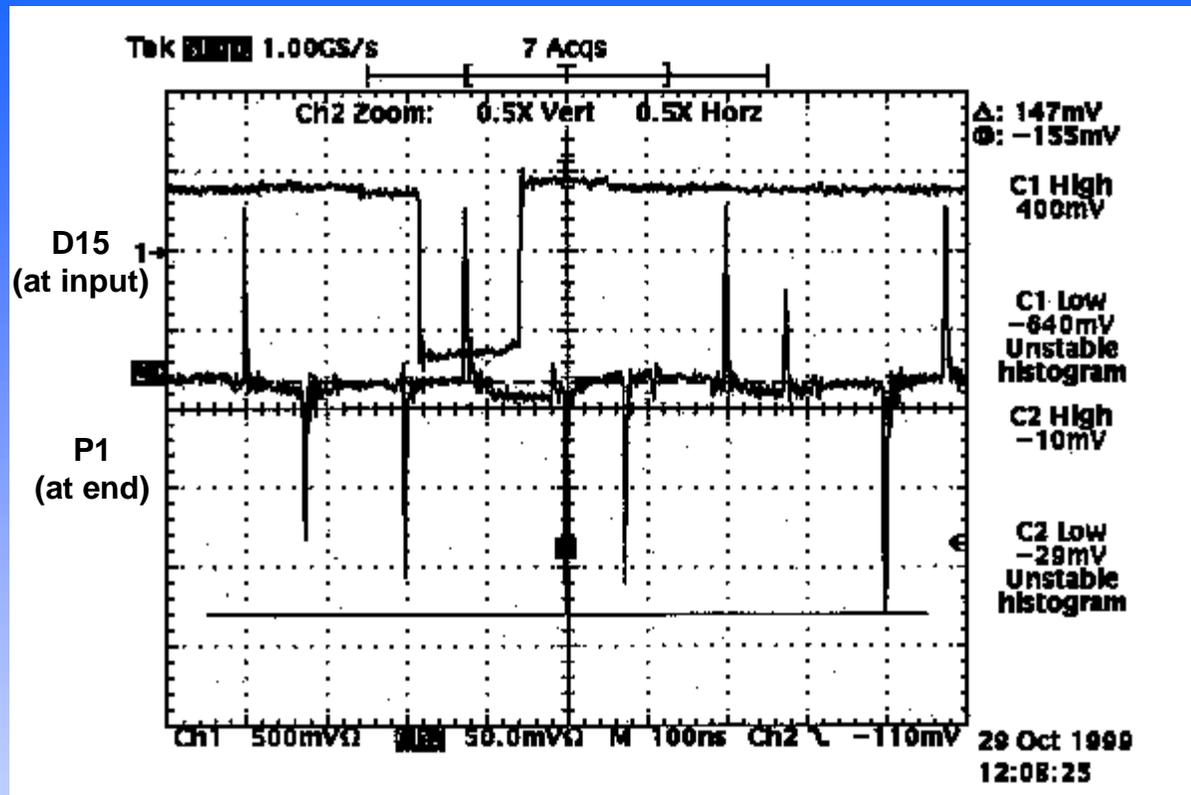
D15
(at input)

P1
(at end)

Tek 1.00GS/s   7 Acqs

Ch2 Zoom: 0.5X Vert   0.5X Horz

Δ: 147mV
@: −155mV

C1 High
400mV

C1 Low
−640mV
Unstable
histogram

C2 High
−10mV

C2 Low
−29mV
Unstable
histogram

Ch1 500mV Ω   50.0mV Ω   M 100ns Ch2 ↘ −110mV

29 Oct 1999
12:08:25

T ———————————————— T

12 m, 30 AWG twist/flat cable

Crosstalk at P1, point-to-point

looking @ end

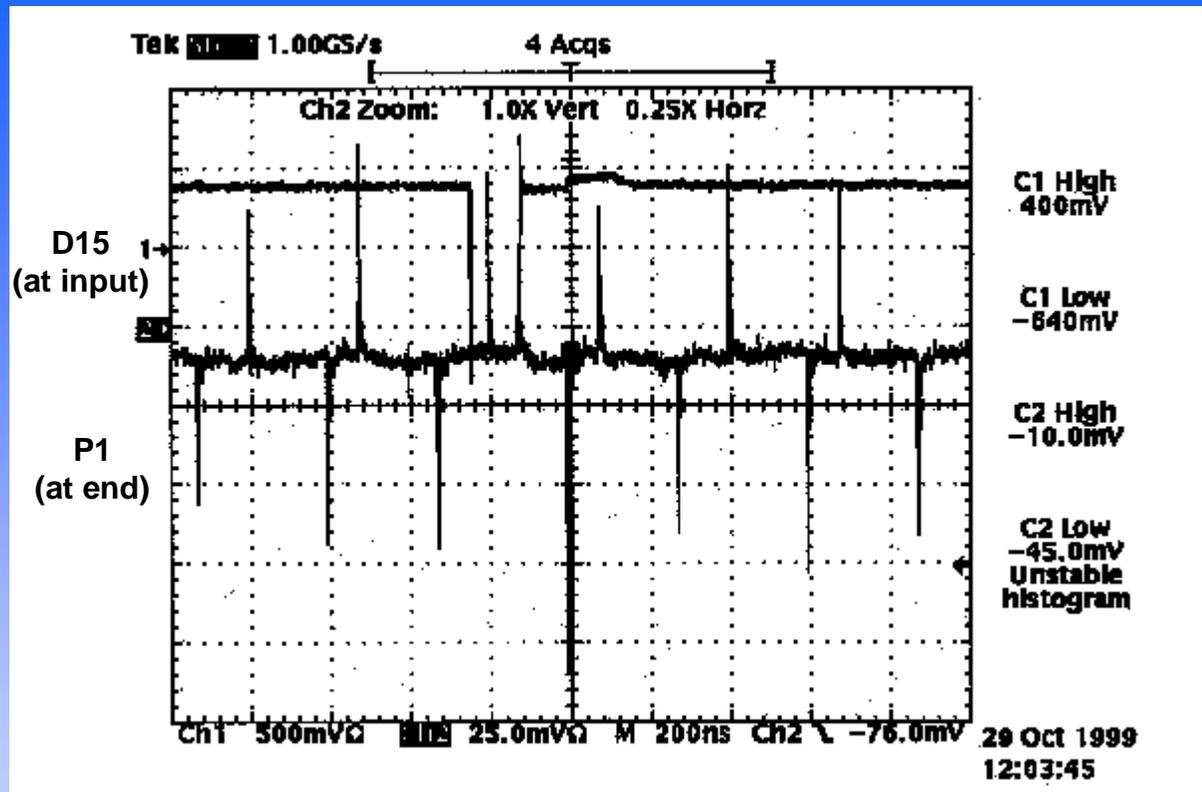**Advanced Technology Group- ATG**

adaptec

Crosstalk at P1, point-to-point
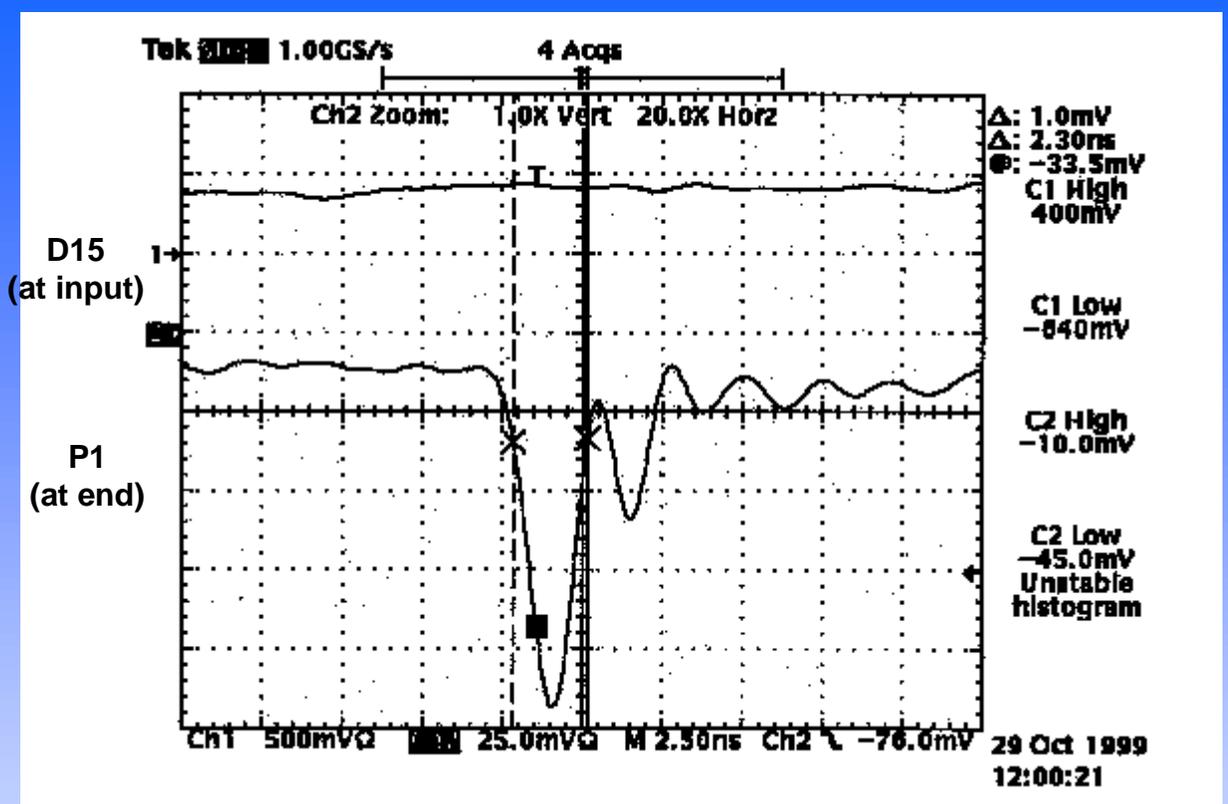
looking @ end   (ZOOM)

12 m, 30 AWG twist/flat cable

Crosstalk at P1, point-to-point

looking @ end

Crosstalk at P1, point-to-point
looking @ end   (ZOOM)