

To: X3T10.1 Membership
Subj: Eye patterns for SSA external cable assemblies using AMP HSSDC
Date: 95-12-18 13:54:09 EST
From: lisa.huff@amp.com (Lisa Huff)
To: ljamers@adaptec.com

X3T10.1/96a108r0

The eye patterns that were given to you at the SSA meetings last week in San Jose were the following:

- SSA Drivers at 200 Mbps and 400 Mbps
- 18m, 30.5m Cable assemblies with 28 AWG Shielded Quad at 200 Mbps
- 30m, 50m Cable assemblies with 24 AWG Shielded Quad at 200 Mbps
- 18m Cable assembly with 28 AWG Shielded Quad at 400 Mbps
- 30m, 40m and 50m Cable assemblies with 24 AWG Shielded Quad at 400 Mbps

The cable assemblies were tested using a Tektronix HFS 9003 Stimulus System and a Tektronix 11801B Oscilloscope.

If you should need further information, please don't hesitate to call or e-mail me.

Thank you.

Lisa A. Huff
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lisa.huff@amp.com

Attachments: eye pattern documents

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 23-OCT-95 time: 13:29:17

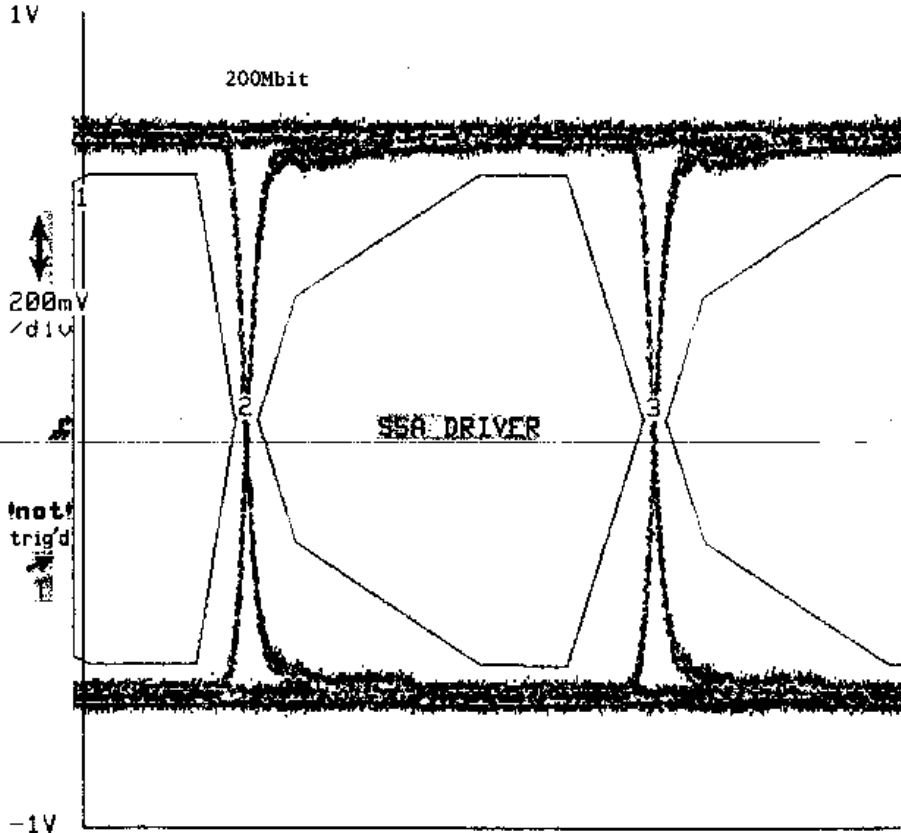
Tek



C Cursors

Window FFTmag

Def:Tra



41.72ns		1ns/div		51.72ns	
Total	0	Mask3	0	Mask7	Main Size
Wfms	175	Mask4		Mask8	1ns/div
Mask1	0	Mask5		Mask9	Main Pos
Mask2	0	Mask6		Mask10	46.72ns
Persist		Color Grad	Standard	Remove/Cl	
Histograms		Scale	Masks	Trace 1	
Color Grad	Count On		User Mask	M3-M4	
Stopped				Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 11-OCT-95 time: 13:23:05

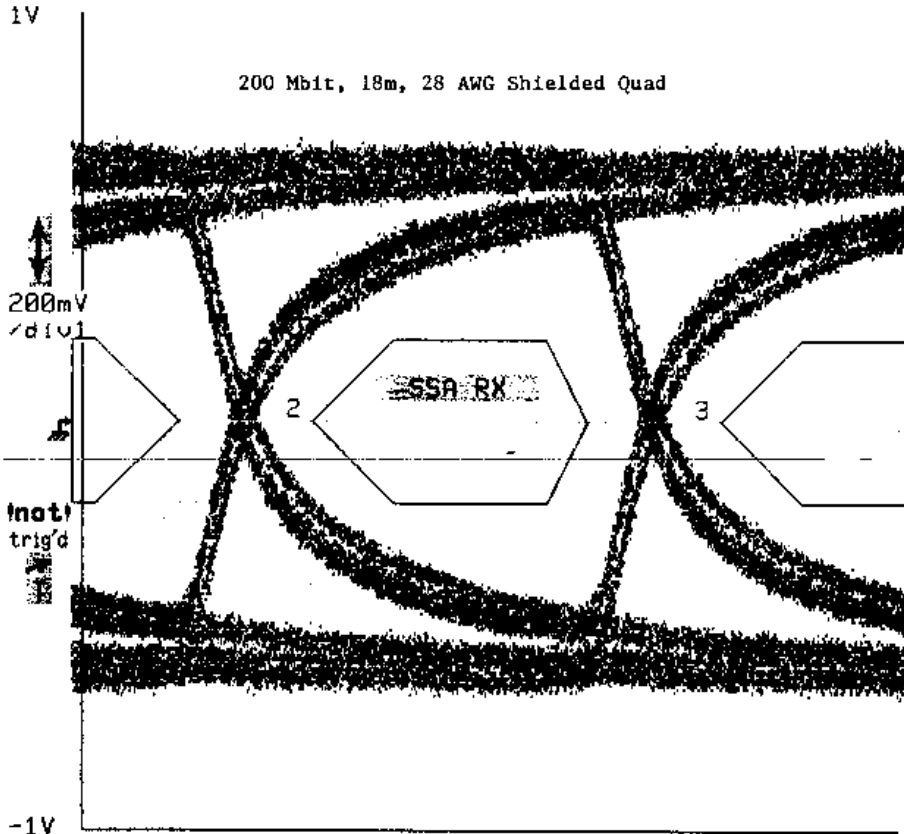
Tek



Cursors

Window FFTmag

Def Tra



39.72ns		1ns/div		49.72ns	
Total	0	Mask3	0	Mask7	Waveform N
Wfms	120	Mask4		Mask8	120
Mask1	0	Mask5		Mask9	Waveform N
Mask2	0	Mask6		Mask10	120
Color Grad		Color Grad	Standard	Remove/Cl	
Diagrams		Scale	Masks	Trace L	
Color Grad	Count On		User Mask	M3-M4	
Stopped	Passing			Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 23-OCT-95 time: 13:53:07

Tek



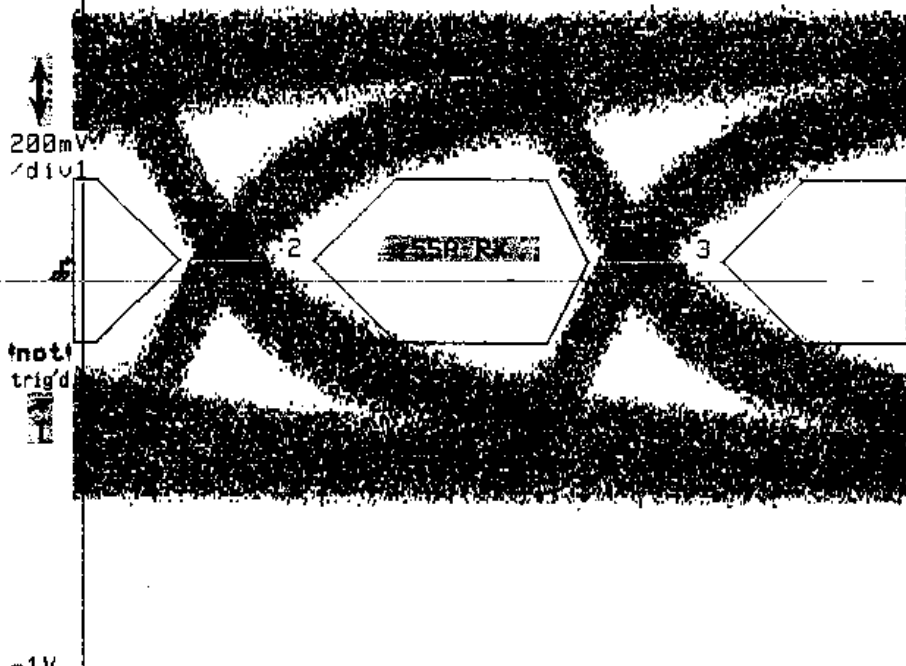
Cursors

Window FFTmag

Def.Tras

1V

200 Mbit , 30.5m, 28 AWG Shielded Quad



42.28ns		1ns/div		52.28ns	
Total	16	Mask3	9	Mask7	Waveform
Wfms	200	Mask4		Mask8	200
Mask1	0	Mask5		Mask9	Waveform
Mask2	7	Mask6		Mask10	200
Color Grad	Standard	Remove/Cir			
Histograms	Scale	Masks	Trace		
Color Grad	Count Off	User Mask	M3-M4		
Stopped			Main		

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 8:31:56

Tek



Cursors

Window FFTmag

Def.Tra

1V

200 Mbit, 30m, 24 AWG Shielded Quad

200mV/div

Inotl
trig'd

-1V

41.62ns		1ns/div		51.62ns	
Total	1985	Mask3	936	Mask7	Mask8
Wfms	16	Mask4		Mask9	Mask10
Mask1	0	Mask5			
Mask2	969	Mask6			
Color Grad	Count Off	Standard	Scale	Masks	Trace
Stopped		User Mask		M3-M4	Main

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 10:45:01

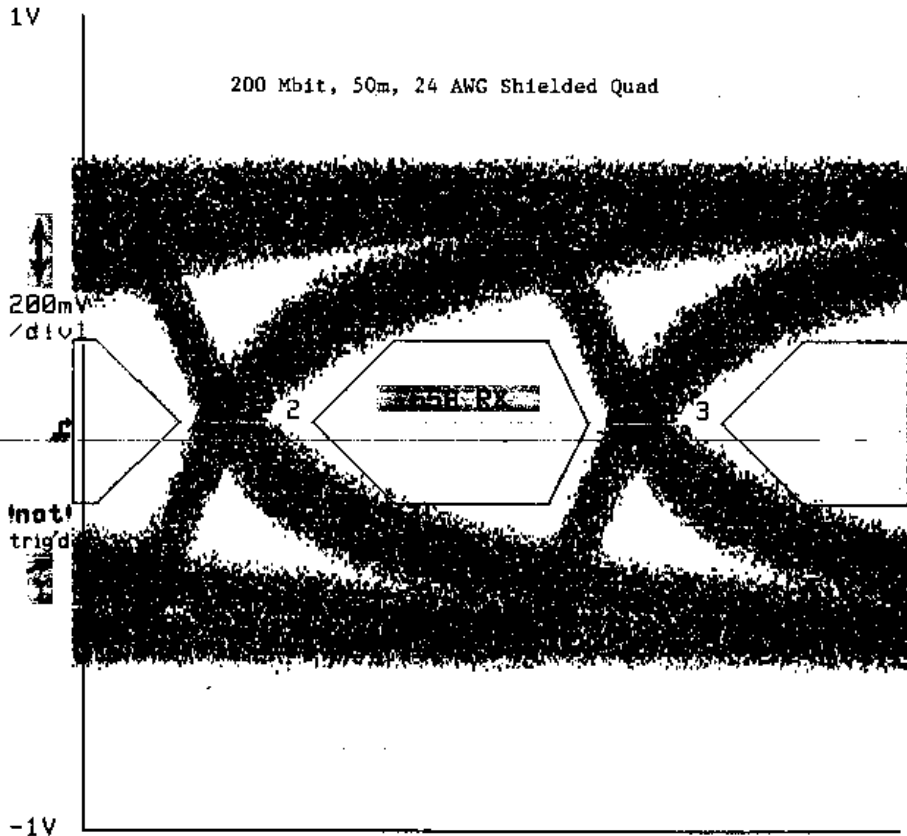
Tek



Cursors

Window FFTmag

Def.Ica



40.22ns		1ns/div		50.22ns	
Total	6	Mask3	3	Mask7	
Wfms	201	Mask4		Mask8	
Mask1	0	Mask5		Mask9	
Mask2	3	Mask6		Mask10	
Color Grad		Count Off		User Mask	
Stopped				M3-M4	
				Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 8:31:56

Tek



Cursors

Window FFTmag

DefTra

1V

200 Mbit, 30m, 24 AWG Shielded Quad

200mV
/div

not trig'd

-1V

41.62ns		ins/div		51.62ns	
Total	1905	Mask3	936	Mask7	Waveform N
Wfms	16	Mask4		Mask8	200
Mask1	0	Mask5		Mask9	Waveform N
Mask2	969	Mask6		Mask10	200
Percent		Color Grad	Standard	Remove Cir	
Histogram		Scale	Masks	Trace 1	
Color Grad	Count Off		User Mask	M3-M4	
Stopped				Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 10:45:01



Cursors

Window FFTmag

DefTra

1V

200 Mbit, 50m, 24 AWG Shielded Quad

200mV/div

not trig'd

-1V

40.22ns		1ns/div		50.22ns	
Total	6	Mask3	3	Mask7	Main Size
Wfms	201	Mask4		Mask8	1ns/div
Mask1	0	Mask5		Mask9	Main Pos
Mask2	3	Mask6		Mask10	45.22ns
Perstet/ Histograms		Color Grad Scale	Standard Masks	Remove/Cir Trace 1	
Color Grad Stopped	Count Off		User Mask	M3-M4 Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 8:42:53

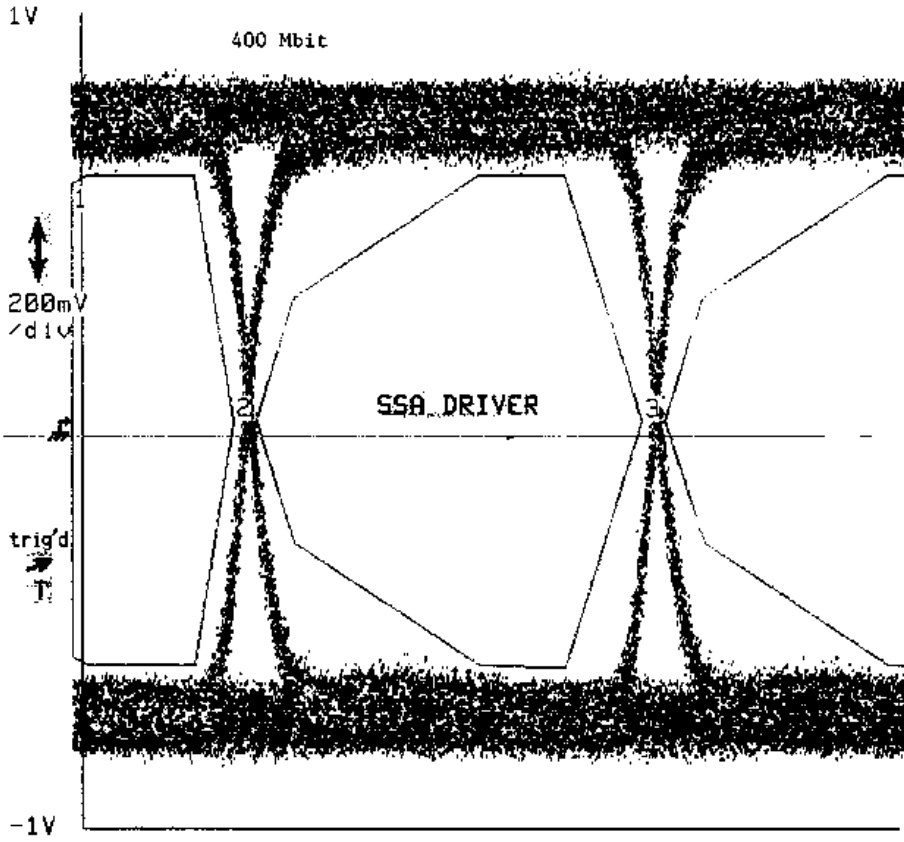
Tek



Cursors

Window FFTmag

DefTra

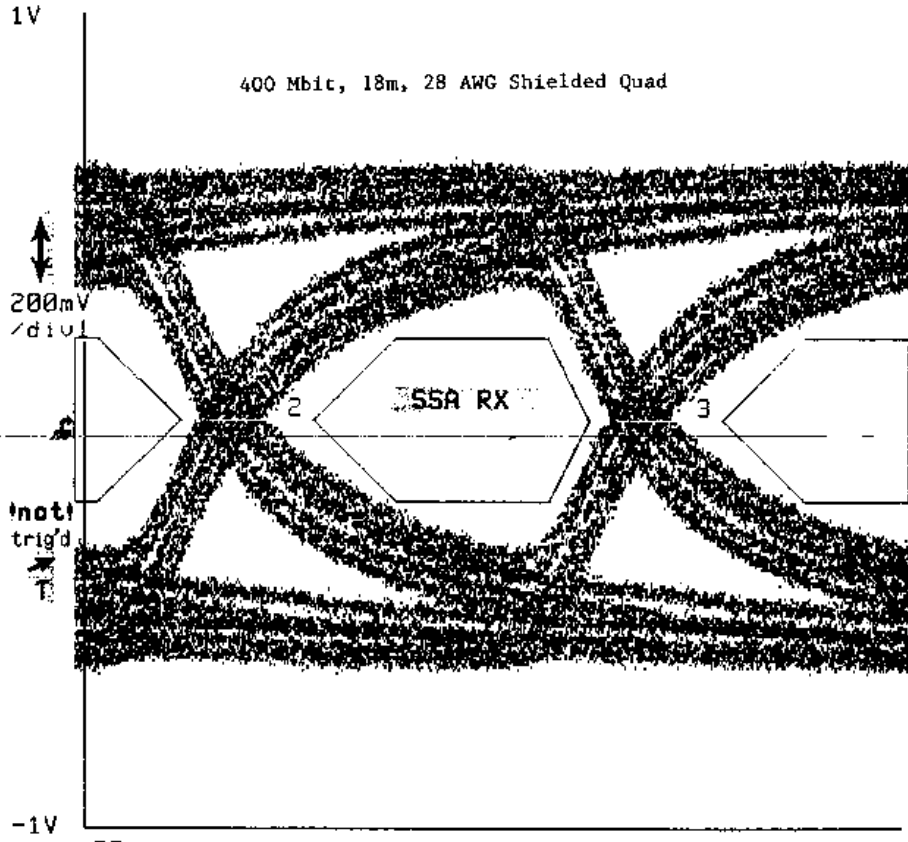


44.92ns		500ps/div		49.92ns	
Total	113	Mask3	27	Mask7	Main Size
Wfms	54	Mask4		Mask8	500ps/div
Mask1	38	Mask5		Mask9	Main Pos
Mask2	48	Mask6		Mask10	47.42ns
Persist		Color Grad	Standard	Remove/Clr	
Histograms		Scale	Masks	Trace 1	
Color Grad	Count Off		User Mask	M3-M4	
Continuous				Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 11-OCT-95 time: 13:26:45

Tex ↔ Cursors Window FFTmag DefTra



41.77ns		500ps/div		46.77ns	
Total	0 Mask3	0 Mask7	Waveform N		
Wfms	120 Mask4	Mask8	120		
Mask1	0 Mask5	Mask9	Waveform N		
Mask2	0 Mask6	Mask10	120		
Persist		Color Grad	Standard	Remove/Cir	
Histograms		Scale	Masks	Trace 1	
Color Grad	Count On		User Mask	M3-M4	
Stopped	Passing			Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 8:44:58

Tek



Cursors

Window FFTmag

DefTra

1V

400 Mbit, 30m, 24 AWG Shielded Quad

200mV/div

trig'd

-1V

38.52ns		500ps/div		43.52ns	
Total	347	Mask3	129	Mask7	Main Size
Wfms	1	Mask4		Mask8	500ps/div
Mask1	54	Mask5		Mask9	Main Pos
Mask2	164	Mask6		Mask10	41.02ns
Persist		Color Grad	Standard	Remove/Cir	
Histogram		Scale	Masks	Trace 1	
Color Grad	Count Off		User Mask	M3-M4	
Continuous				Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 12:57:04

Tek



Cursors

Window FFTmag

DefTra

1V

400 Mbit, 40m, 24 AWG Shielded Quad

200mV/div

trig'd

-1V

41.42ns		500ps/div		46.42ns	
Total	558	Mask3	199	Mask7	Main Size
Wfms	156	Mask4		Mask8	500ps/div
Mask1	10	Mask5		Mask9	Main Pos
Mask2	349	Mask6		Mask10	43.92ns
Parallel		Color Grad	Standard	Remove/Clr	
Histograms		Scale	Masks	Trace 1	
Color Grad	Count On		User Mask	M3-M4	
Stopped				Main	

AMP

11801A DIGITAL SAMPLING OSCILLOSCOPE
 date: 26-OCT-95 time: 10:47:06

Tek



C Cursors

Window FFTmag

Def Tra

1V

400 Mbit, 50m, 24 AWG Shielded Quad

200mV/div

Inst trig'd

-1V

41.97ns		500ps/div		46.97ns	
Total	6 Mask3	3 Mask7	Main Size		
Wfms	247 Mask4	Mask8	500ps/div		
Mask1	0 Mask5	Mask9	Main Pos		
Mask2	3 Mask6	Mask10	44.47ns		
Paratet		Color Grad	Standard	Remove/Cir	
Histogram		Scale	Masks	Trace	
Color Grad	Count Off		User Mask	M3-M4	
Stopped				Main	

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