

# **P1394.B CABLE AND MODIFIED CONNECTOR ELECTRICAL PERFORMANCE**

**Bill Northey**

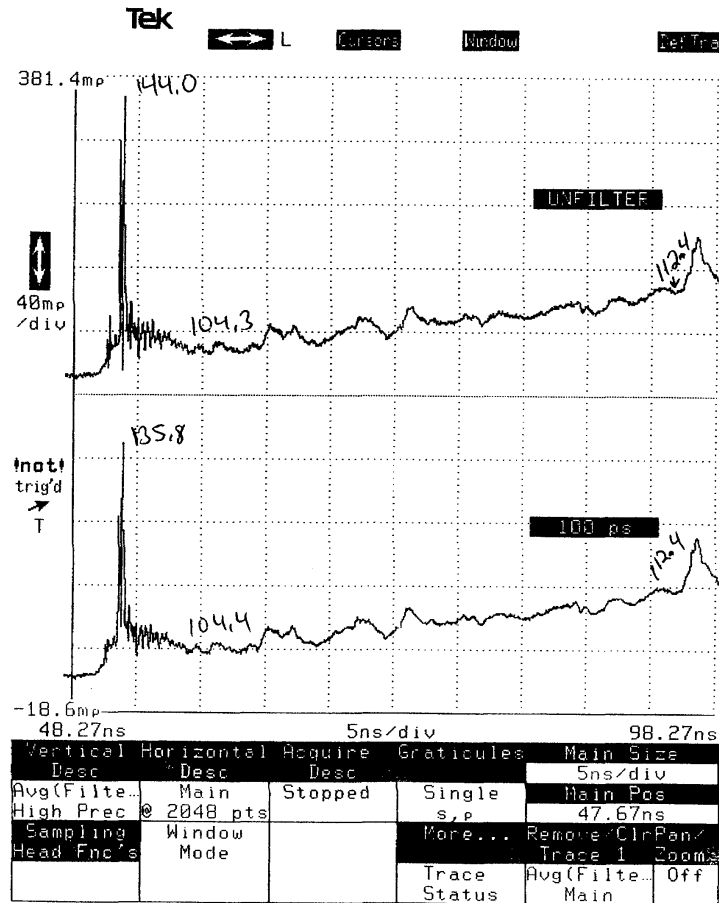
**December 8, 1998**

**Amended December 16, 1998**



Long Cable  
 EL-98-11-037 Impedance (Differential)  
 P1394

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 8:03:34



## CABLE AND CONNECTOR SYSTEM TDR TRACE

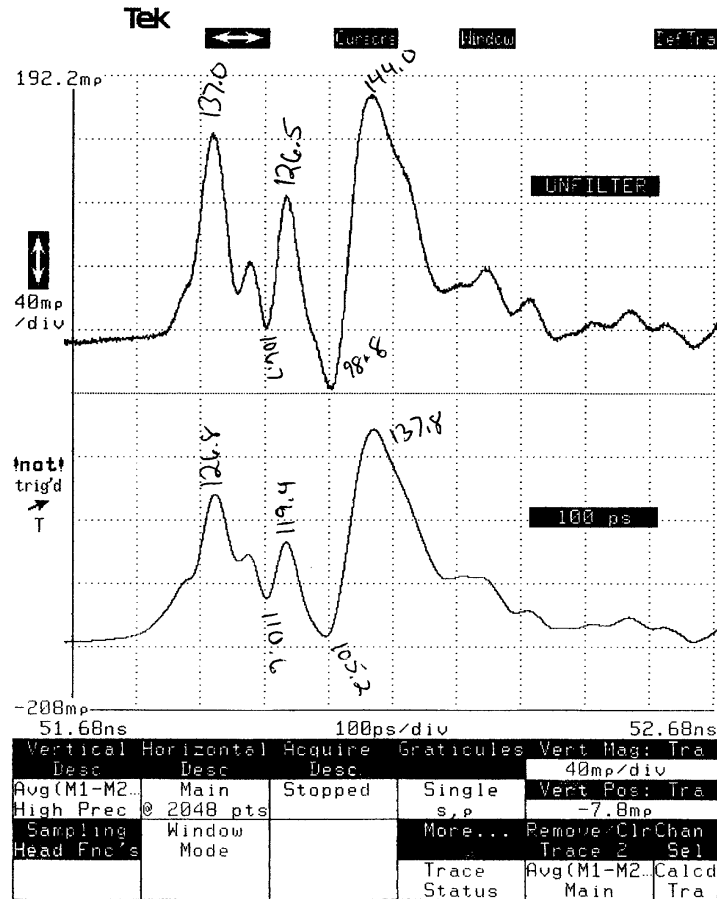
- 4.5 METER CABLE
- Risetime ~35 ps. (10% - 90%)

Risetime = 100 ps. (10% - 90%)



Long Cable  
 EL-98-11-037 Impedance (Differential)  
 P1394

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 7:54:10



## TDR TRACE FOR MATED CONNECTORS ONLY

Risetime ~35 ps. (10% - 90%)

Risetime = 100 ps. (10% - 90%)

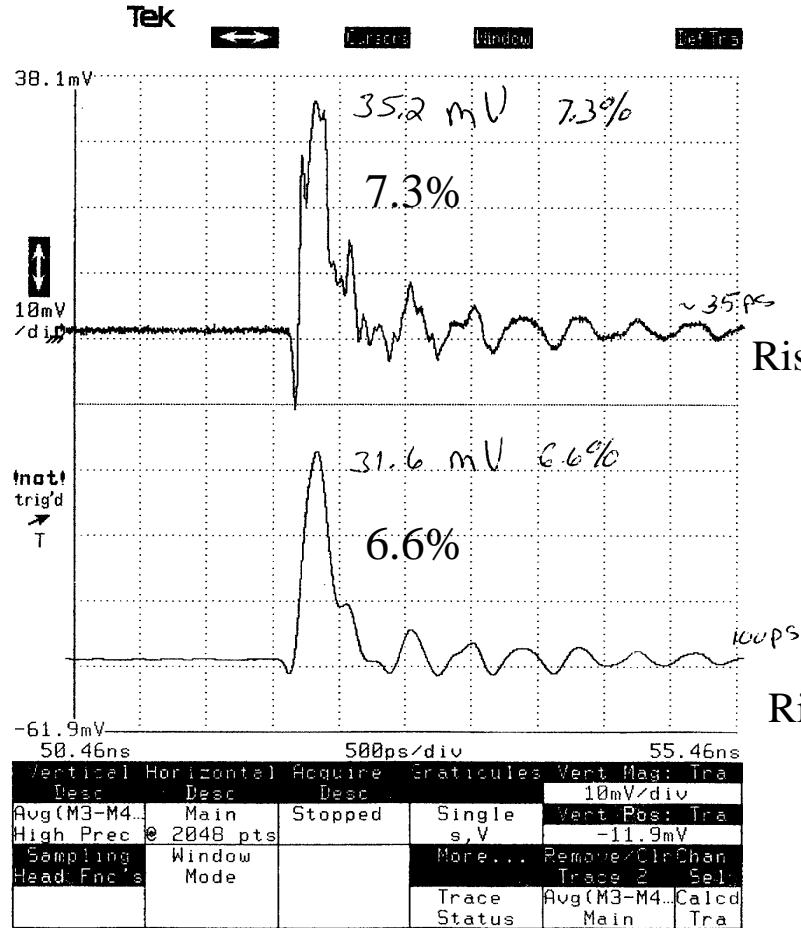


Long Cable  
EL-98-11-037

Next (Differential)

P1394

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
date: 25-NOV-98 time: 11:31:36



# NEAR END CROSS TALK (NEXT) FOR MATED CONNECTOR AND CABLE SYSTEM (4.5 METER CABLE)

Risetime of active signal ~35 ps. (10% - 90%)

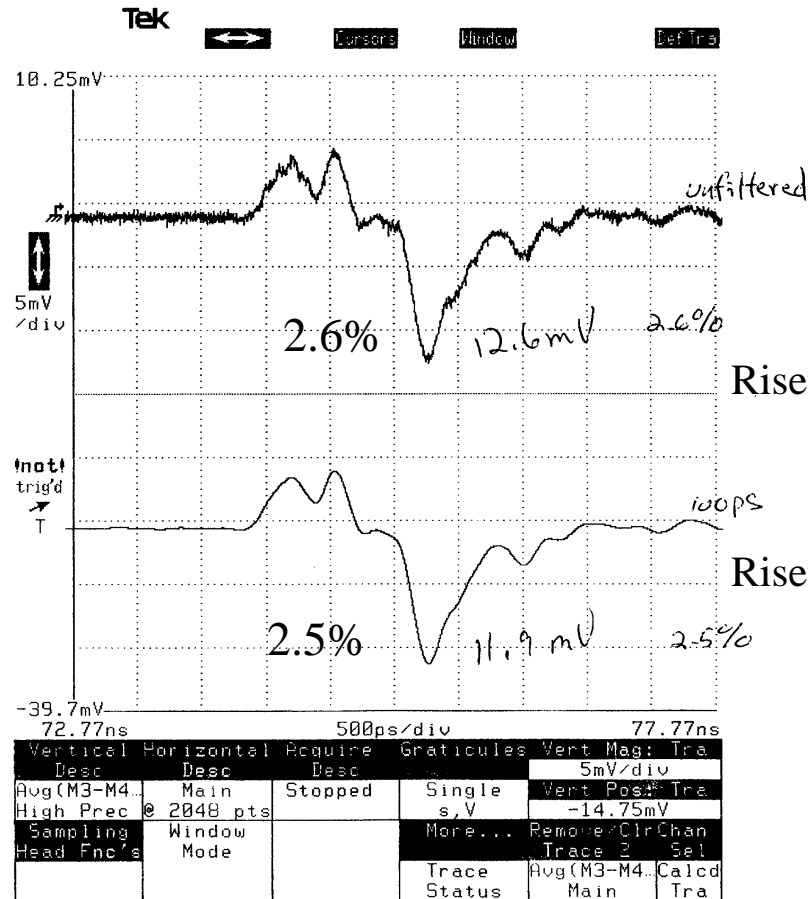
Risetime of active signal = 100 ps. (10% - 90%)



Long Cable  
 EL 98-11-037  
 P1394  
 FEXT (Differential)

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 14:07:30

# FAR END CROSS TALK (FEXT) FOR MATED CONNECTOR AND CABLE SYSTEM (4.5 METER CABLE)

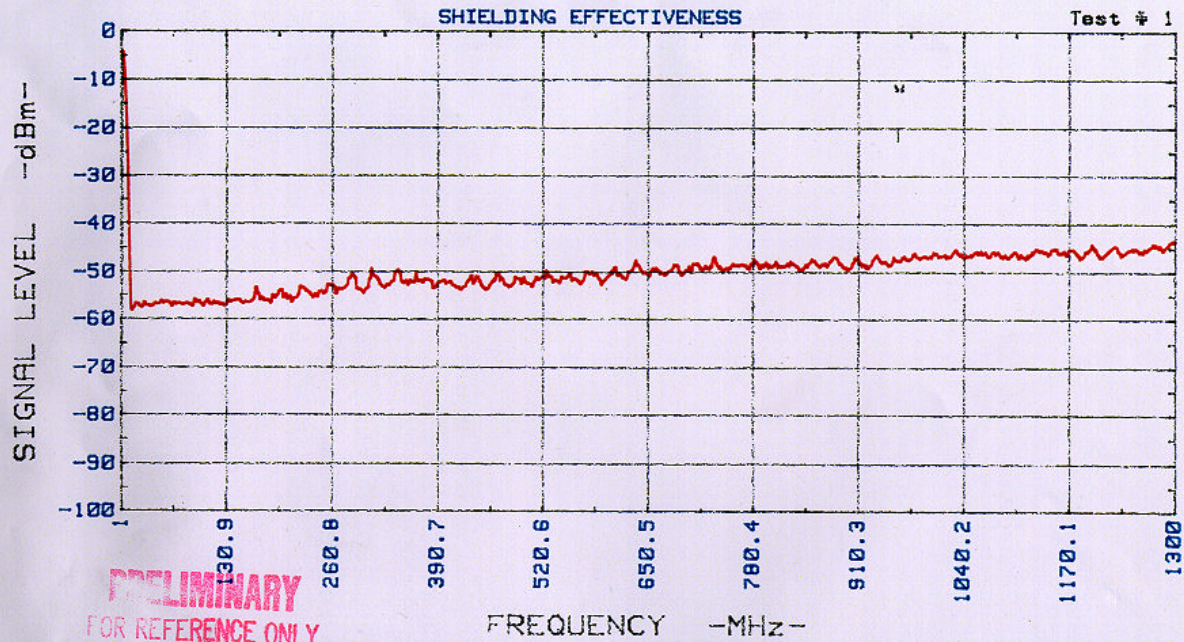


Risetime of active signal ~35 ps. (10% - 90%)

Risetime of active signal = 100 ps. (10% - 90%)



FCI / BERG Electronics - EMI Laboratory



**PRELIMINARY**  
FOR REFERENCE ONLY

FISHER F-2000 PROBE

RES BW: 3000 kHz  
VID BW: 1000 kHz  
SWP TH: .02 sec.

Trace A - LONG CABLE 14' 8''  
Maximum signal level determined using  
current probe "sniffer"

12/03/1998  
9:33:41 A.M.  
Lab #: EL-98-11-037  
Job #:  
MICHAEL LAUGHMAN

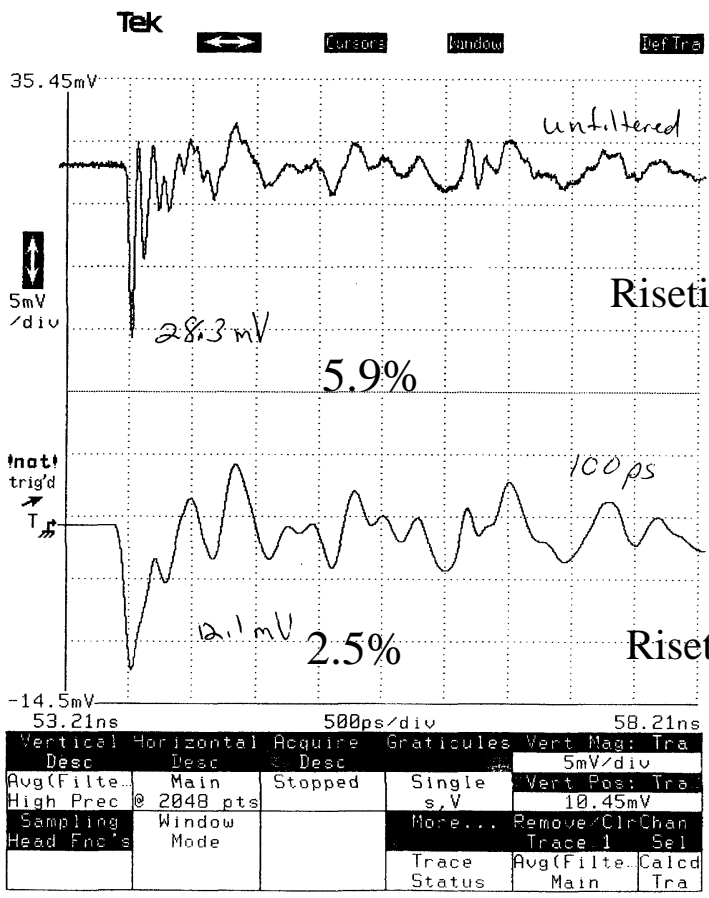


Short cable  
 EL-98-11-037  
 P1394

FEXT (Differential)

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 10:18:49

# DIFFERENTIAL FEXT FOR MATED CONNECTOR AND SHORT CABLE



Risetime of active signal ~35 ps. (10% - 90%)

Risetime of active signal = 100 ps. (10% - 90%)

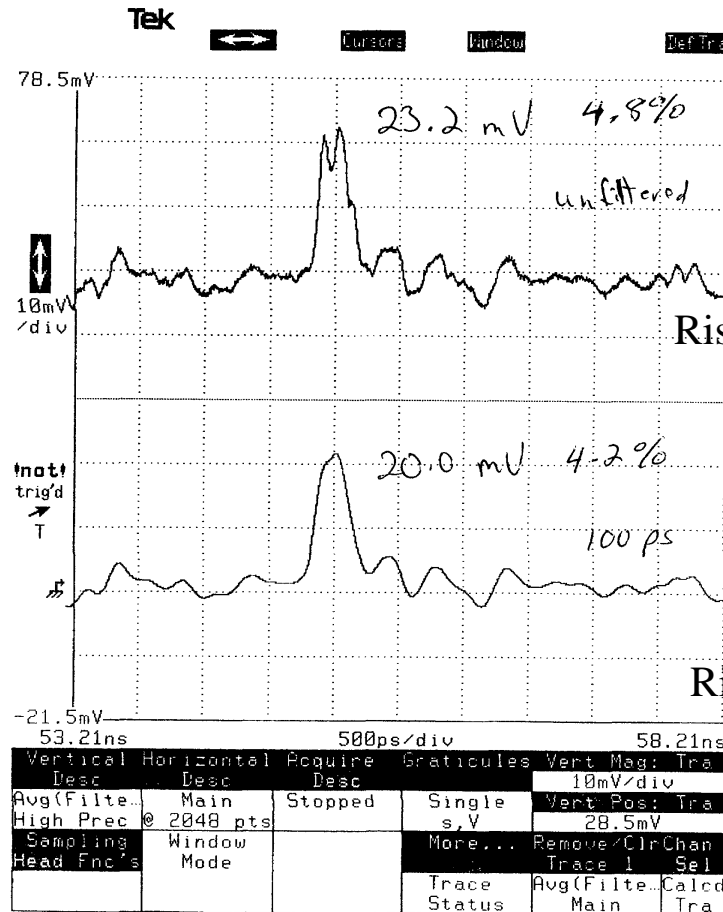


Short Cable  
 EL-98-11-037  
 P1394

Next (Differential)

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 10:50:07

# DIFFERENTIAL NEXT FOR MATED CONNECTOR AND SHORT CABLE



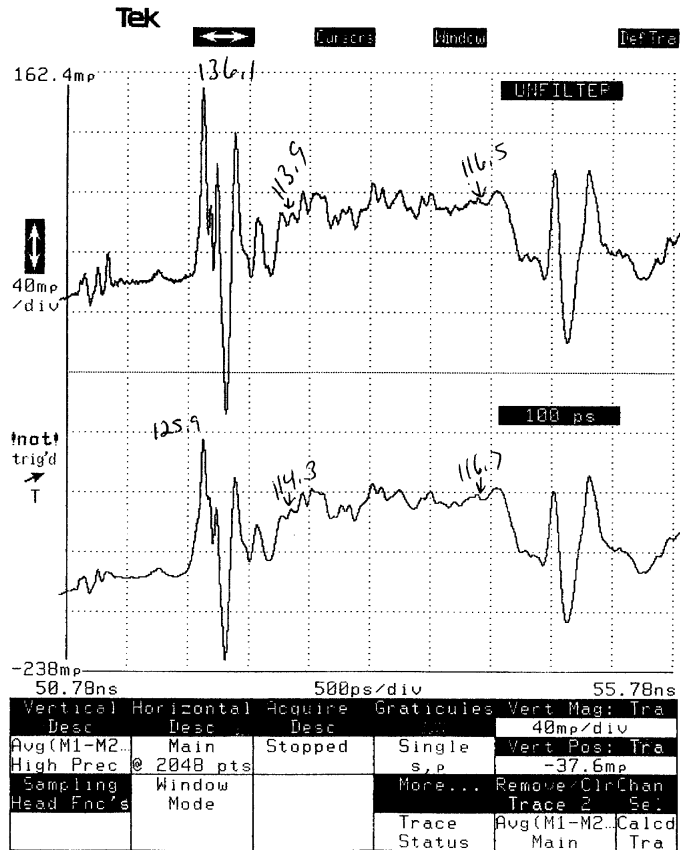
Risetime of active signal ~35 ps. (10% - 90%)

Risetime of active signal = 100 ps. (10% - 90%)



Short Cable  
 EL-98-11-037 Impedance (Differential)  
 p1394

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 9:20:48



# CABLE AND CONNECTOR SYSTEM TDR TRACE USING SHORT CABLE

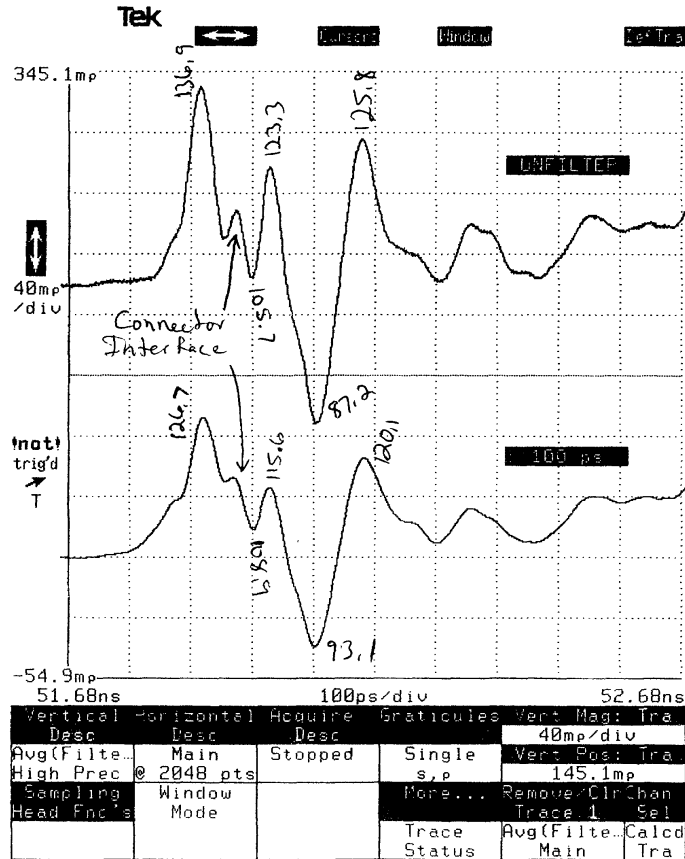
Risetime ~35 ps. (10% - 90%)

Risetime = 100 ps. (10% - 90%)



Short cable  
 EL-58-11-037 Impedance (Differential)  
 P1394

CSA803 COMMUNICATIONS SIGNAL ANALYZER  
 date: 25-NOV-98 time: 7:46:02



## TDR TRACE FOR MATED CONNECTORS ONLY, SHORT CABLE

Risetime ~35 ps. (10% - 90%)

Risetime = 100 ps. (10% - 90%)

