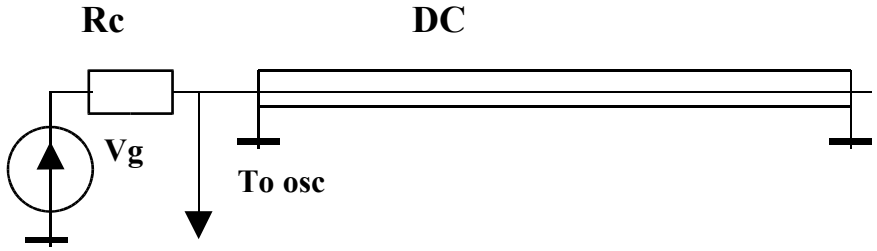
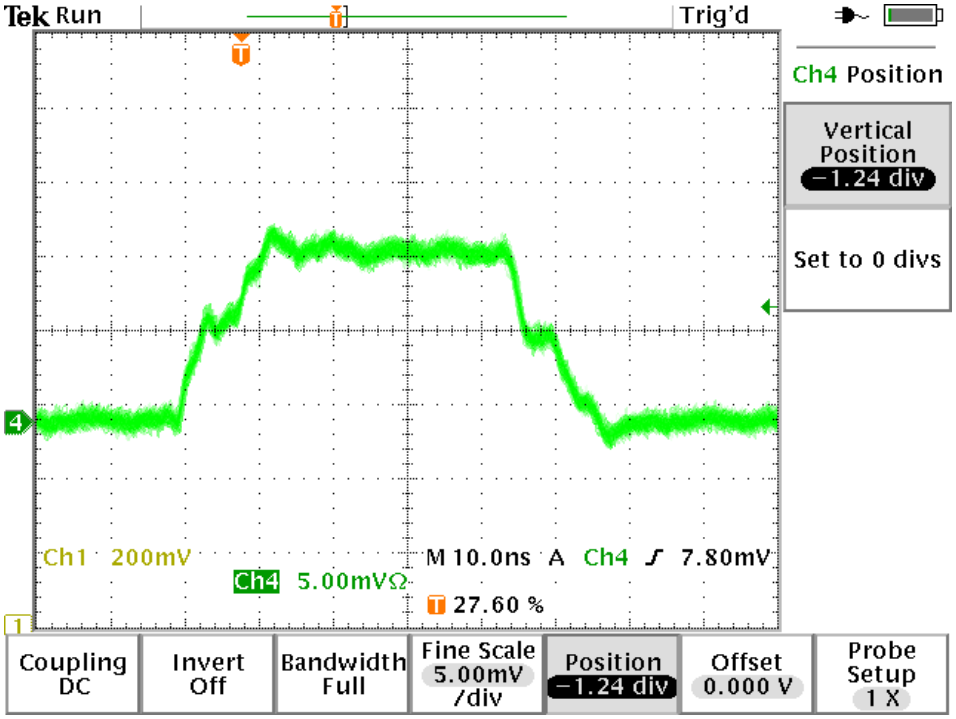
The measurment of the digital cable characteristic resistance (TTL driver 12MHz)

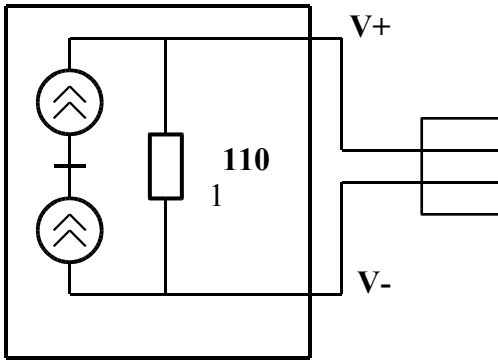


Rc=60 Ohm

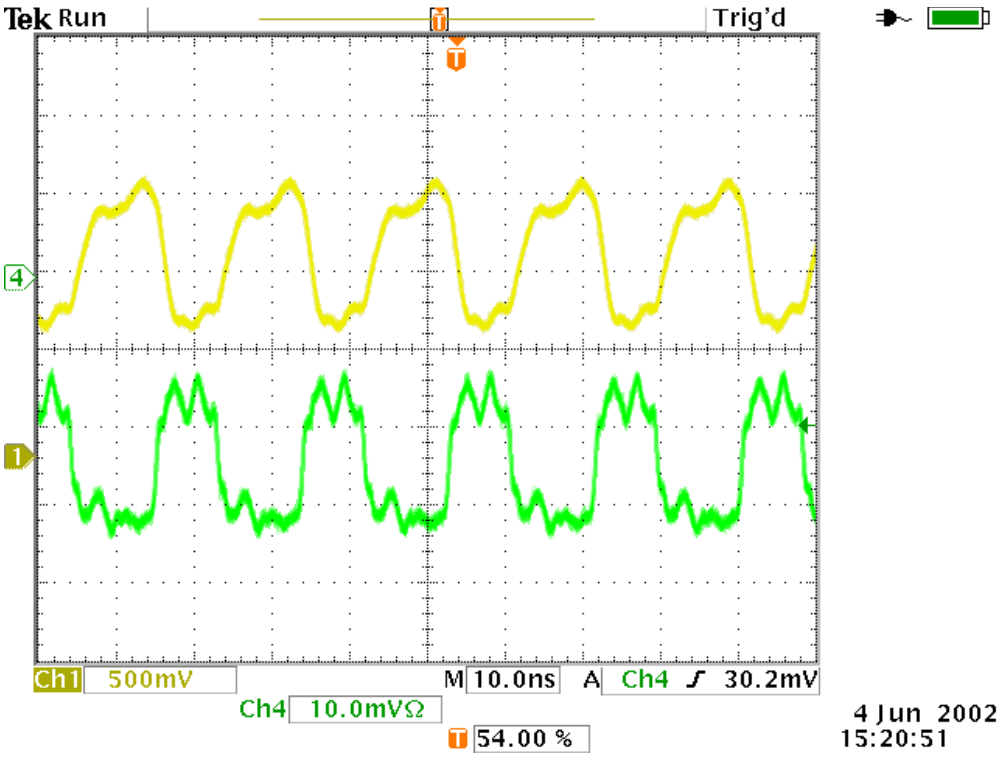


(D7 -/D7) (LVDS driver 53 MHz)

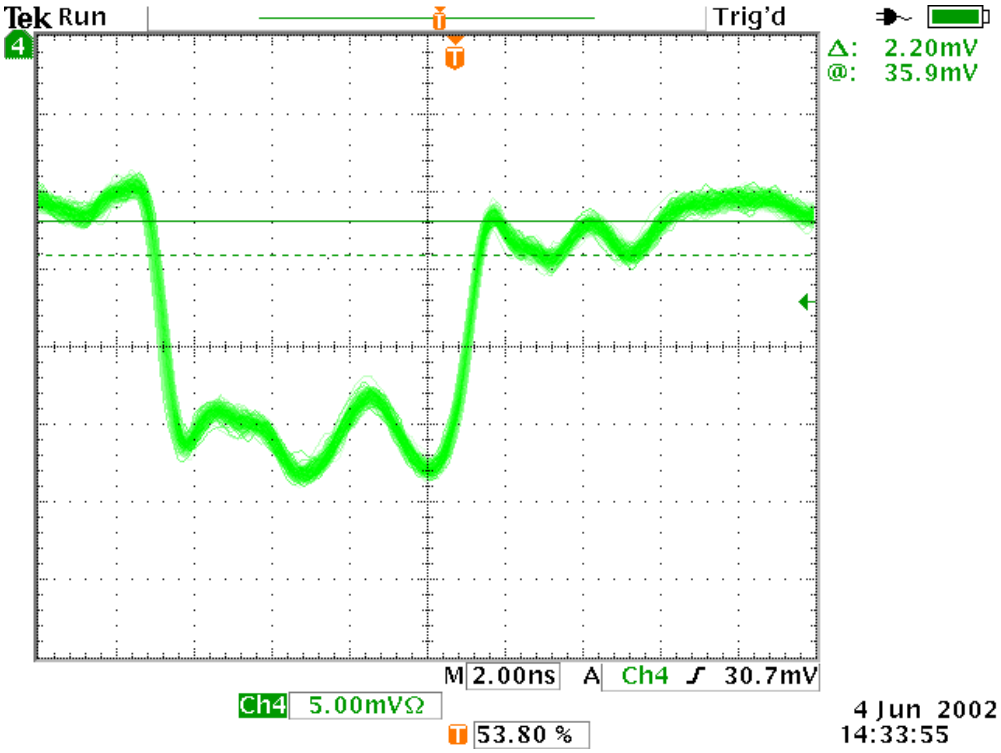
LVDS driver research



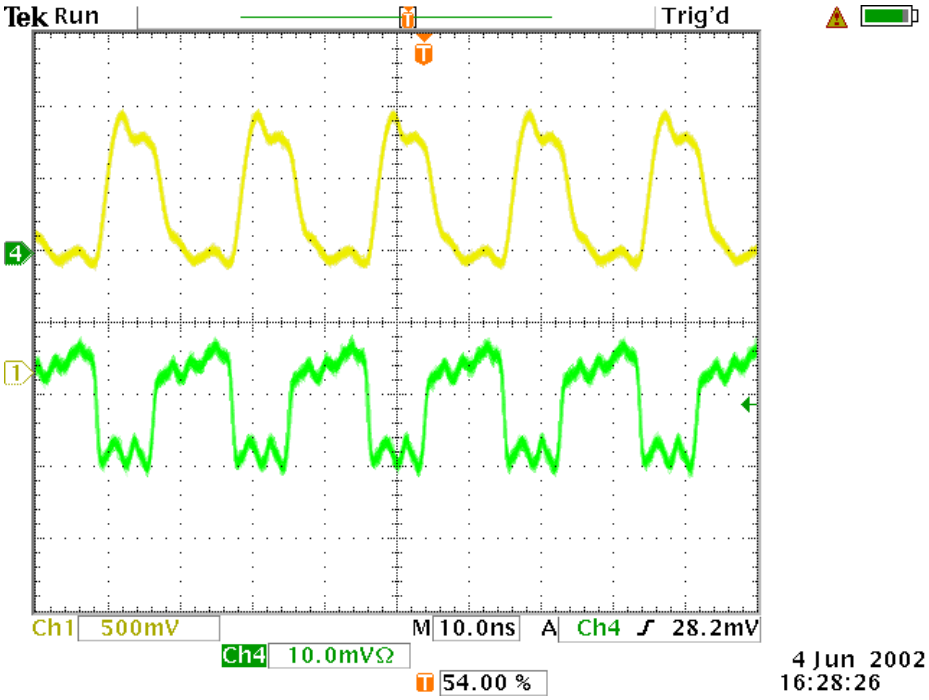
Double digital cable



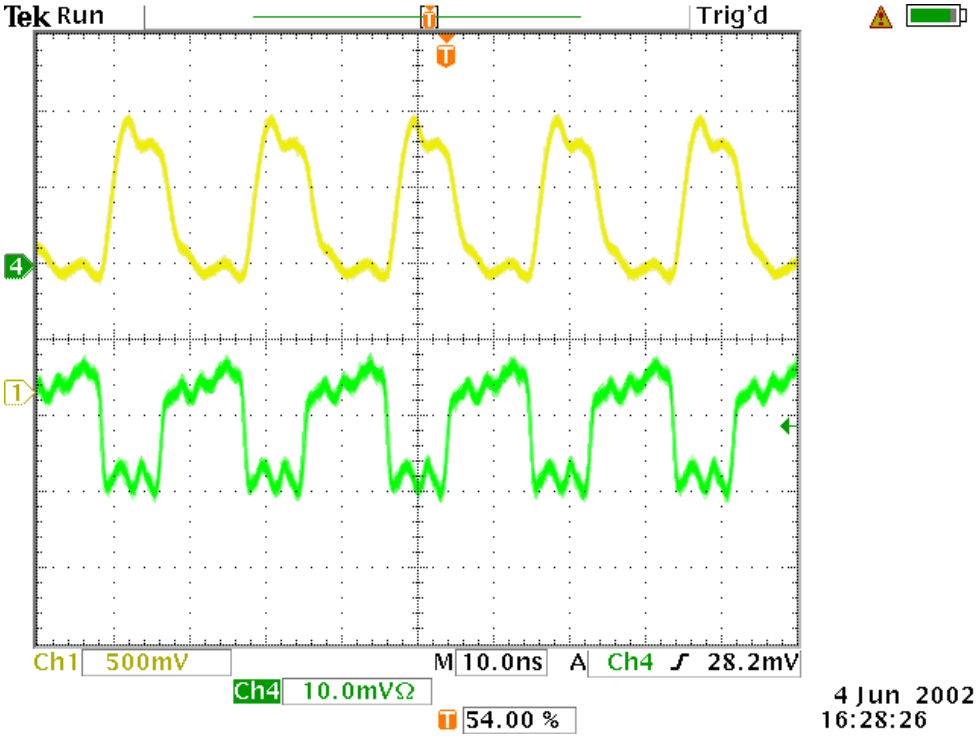
The same, but the scale is extended



Double digital cable (CLK - /CLK) (LVDS driver 53 MHz)

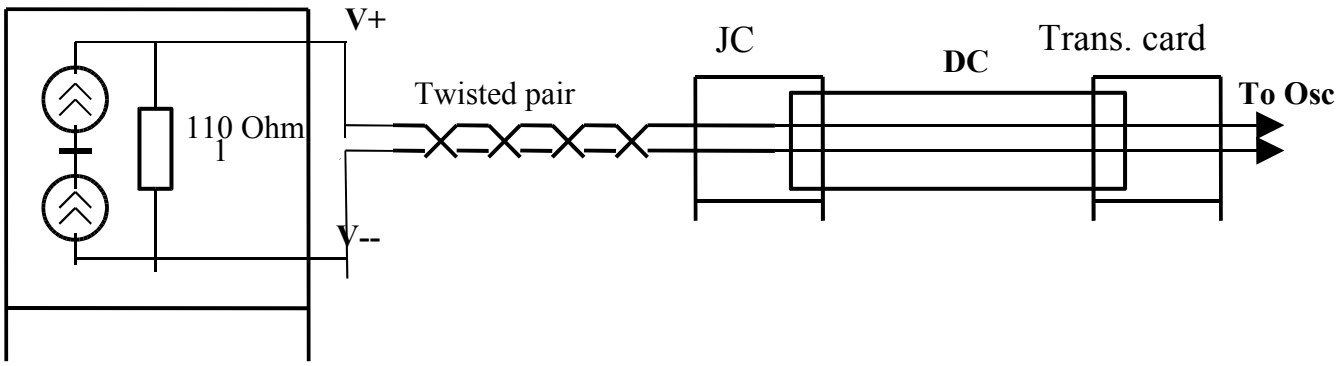


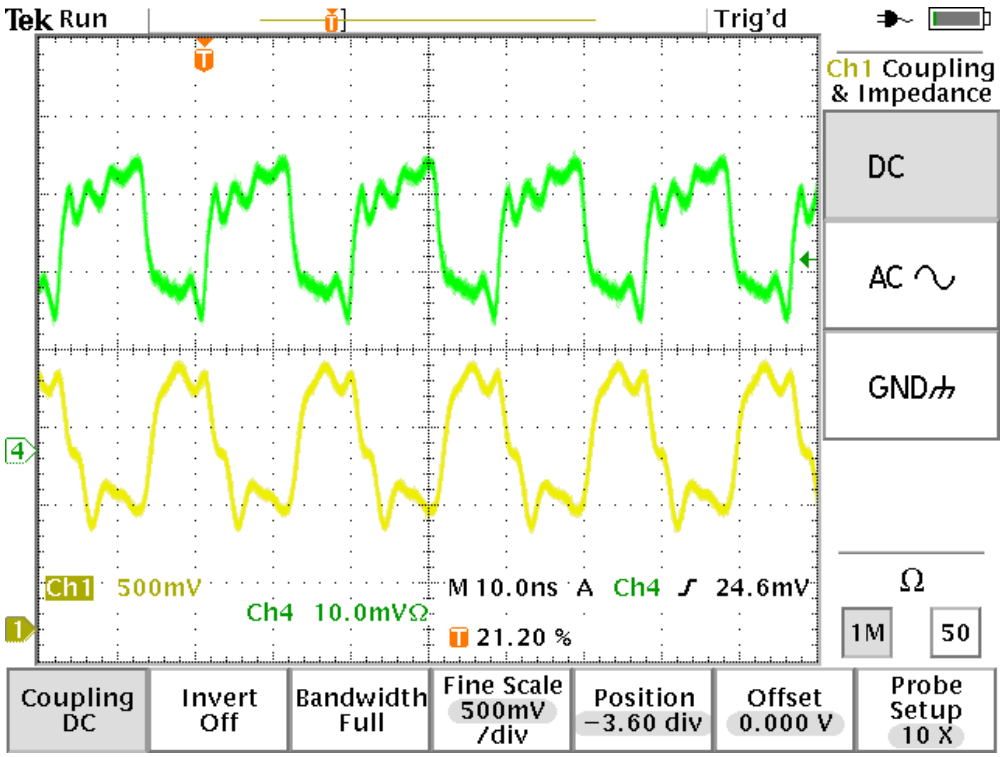
Double digital cable (D3 -/D3) (LVDS driver 53 MHz)



Twisted pair + digital cable D5 - /D5 (LVDS driver 53 MHz)

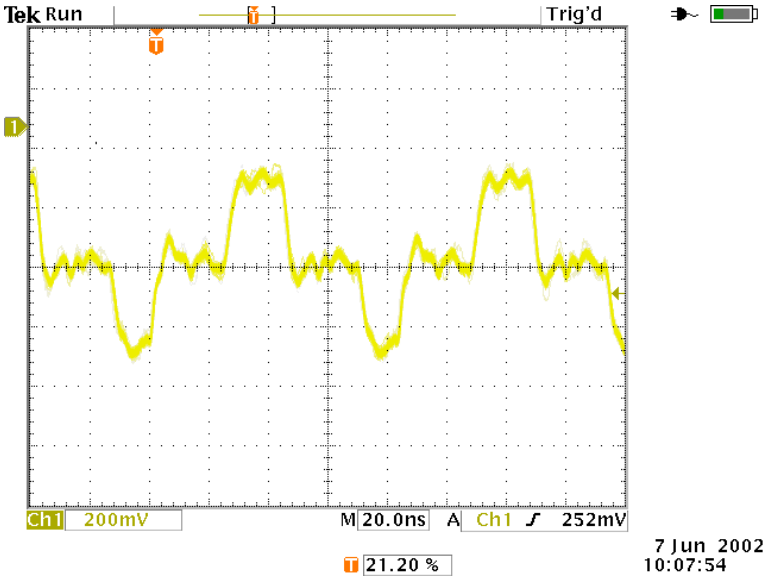
LVDS driver



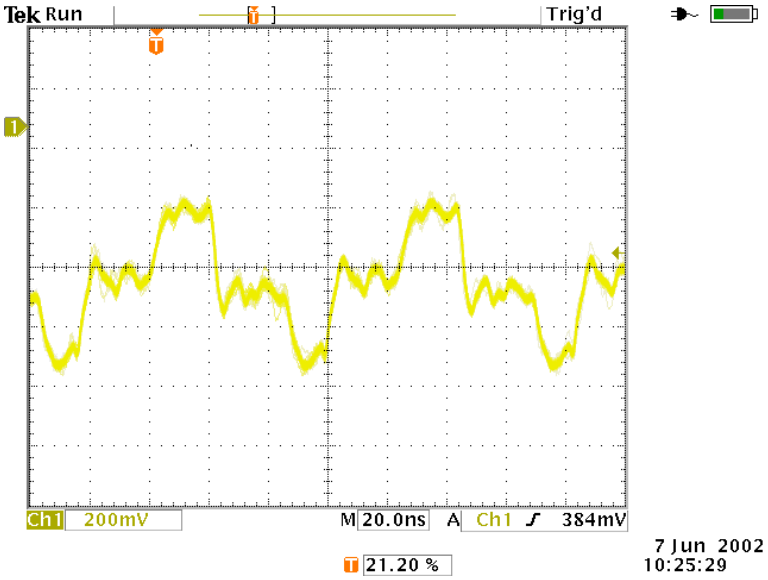


The measurment of the coaxial cable characteristic resistance see the first page) (TTL driver 12MHz)

1. Rc=72 Ohm

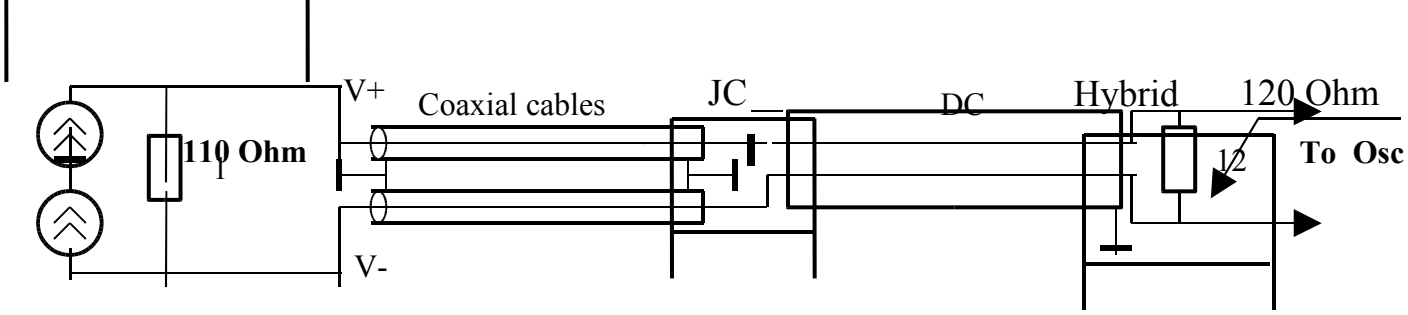


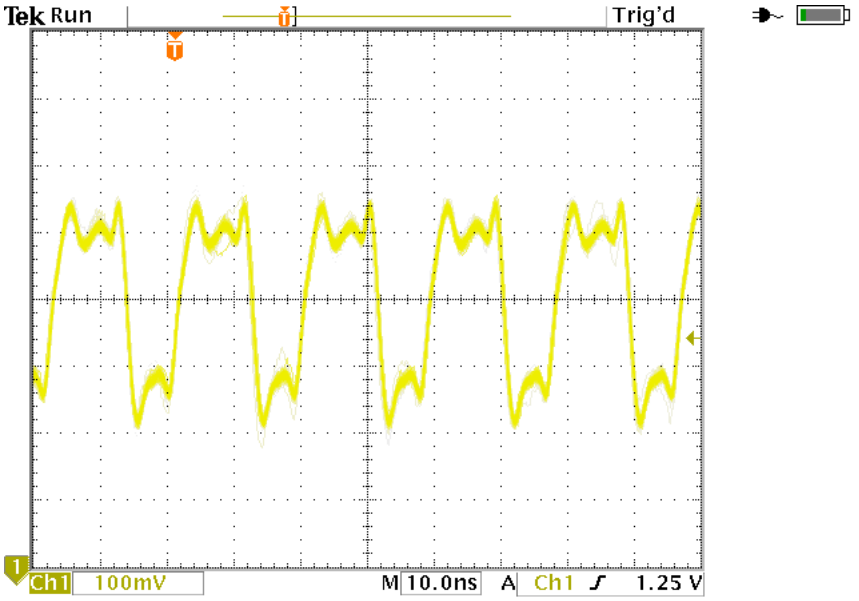
2. Rc=60 Ohm

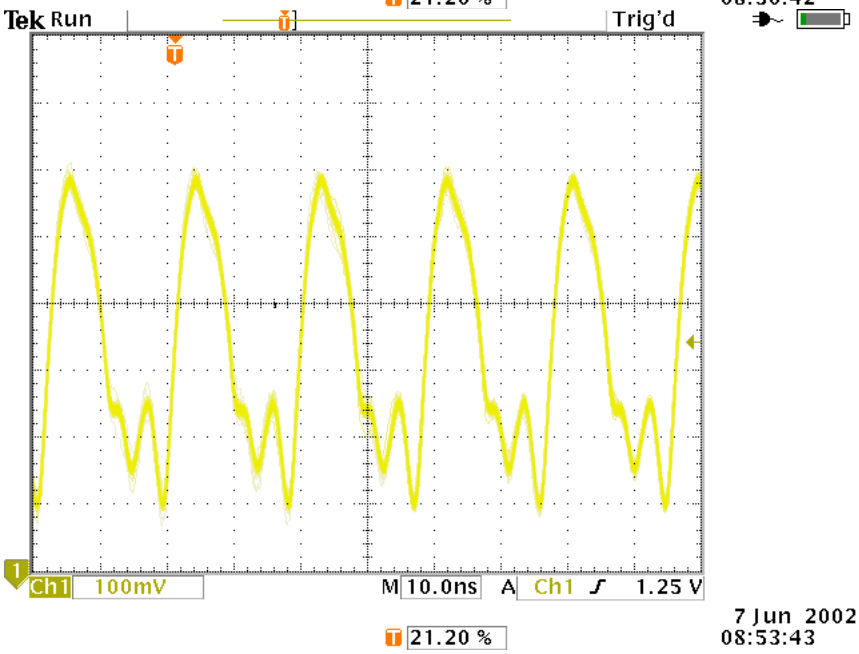


Coaxial + digital cables (CLK - /CLK) (on the Hybrid side)(LVDS driver 53 MHz)

LVDS driver

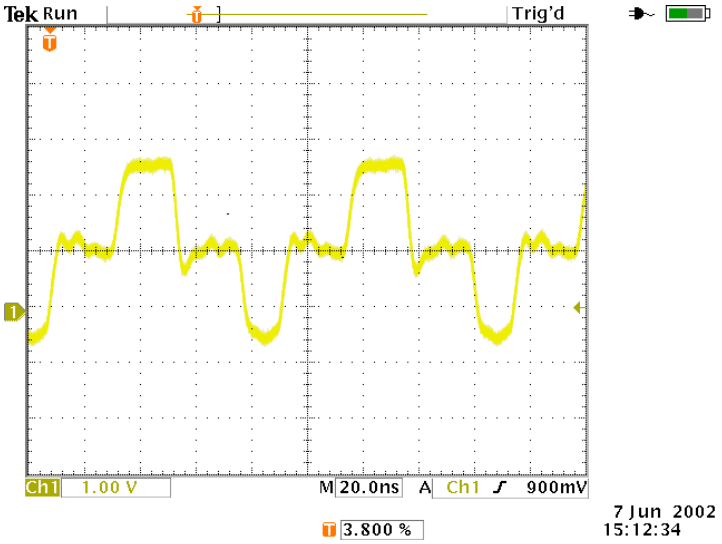




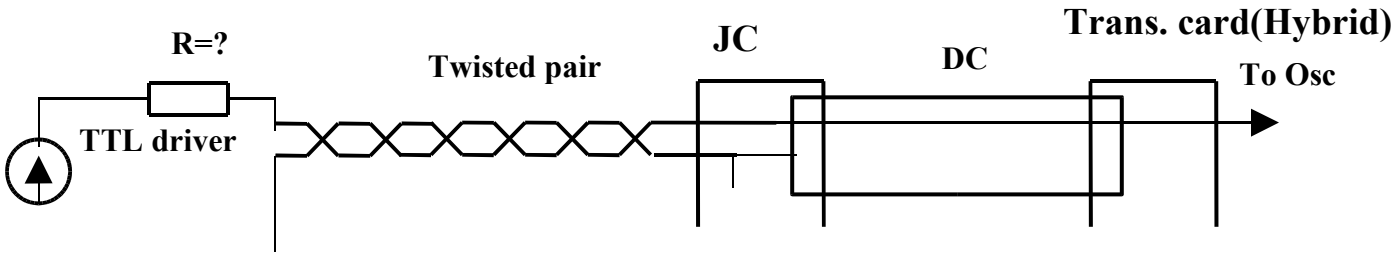


The measurment of the twisted pair characteristic resistance (see the first page) (TTL driver)

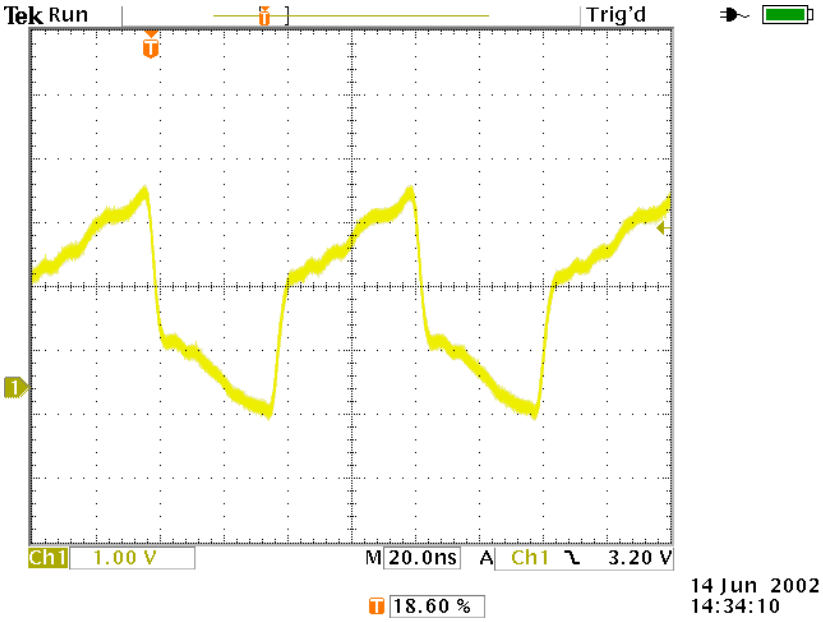
Rc=120 Ohm



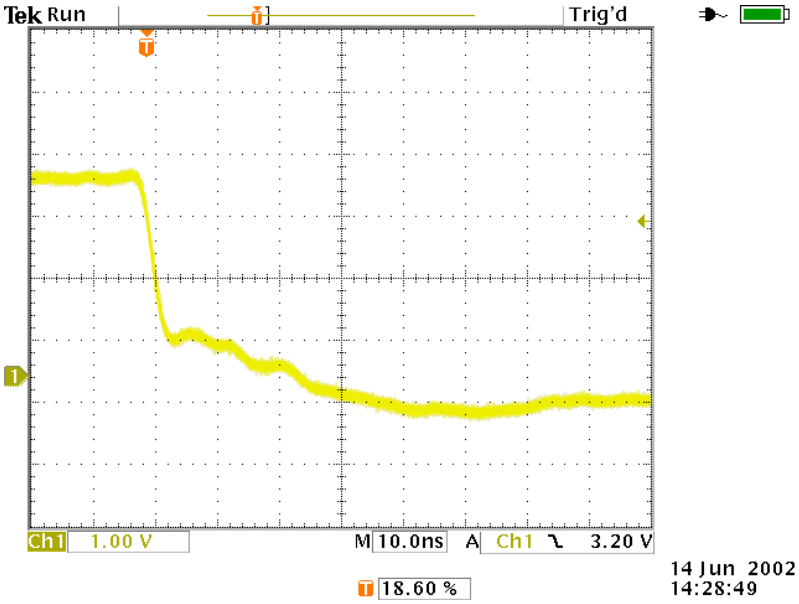
One twisted pair + digital cable for Mode0, Mode1, CH_Mode, PR_IN R= ?



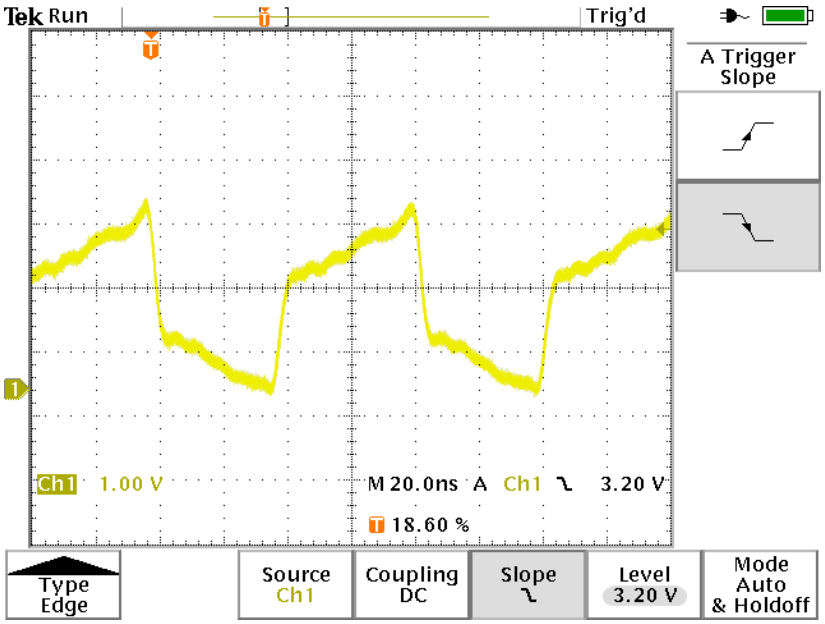
One twisted pair + digital cable R= 90 Ohm (12 MHz)



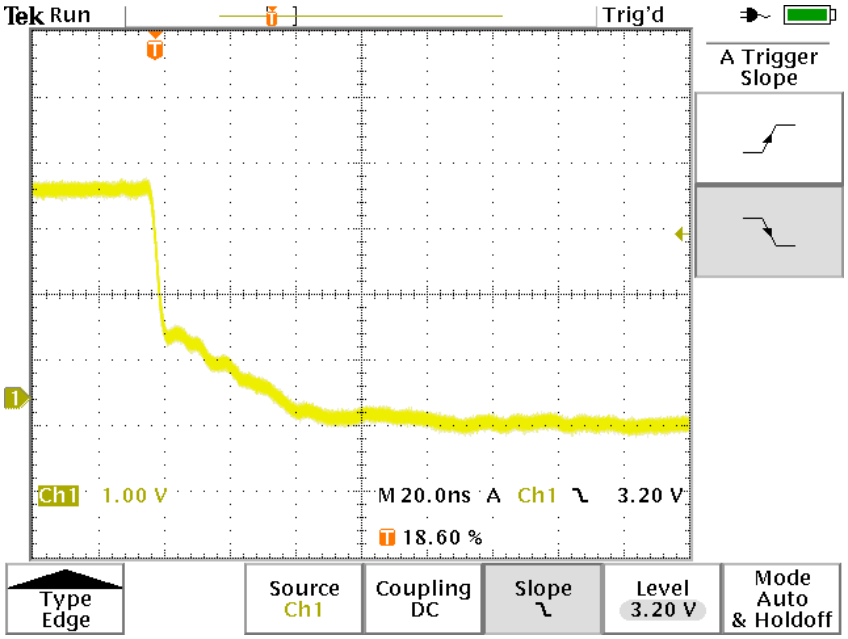
One twisted pair + digital cables R= 90 Ohm (1 MHz)



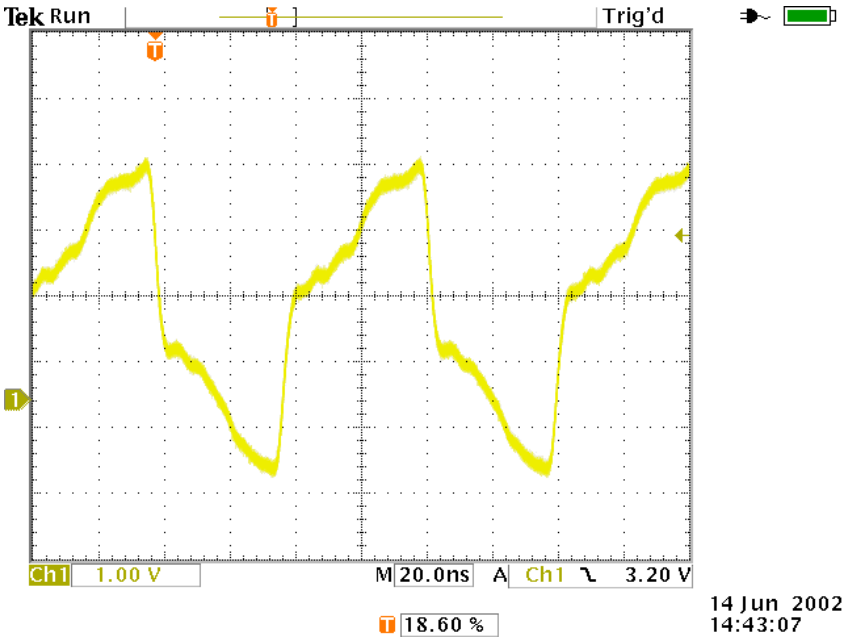
One twisted pair + digital cable R= 120 Ohm (12 MHz)



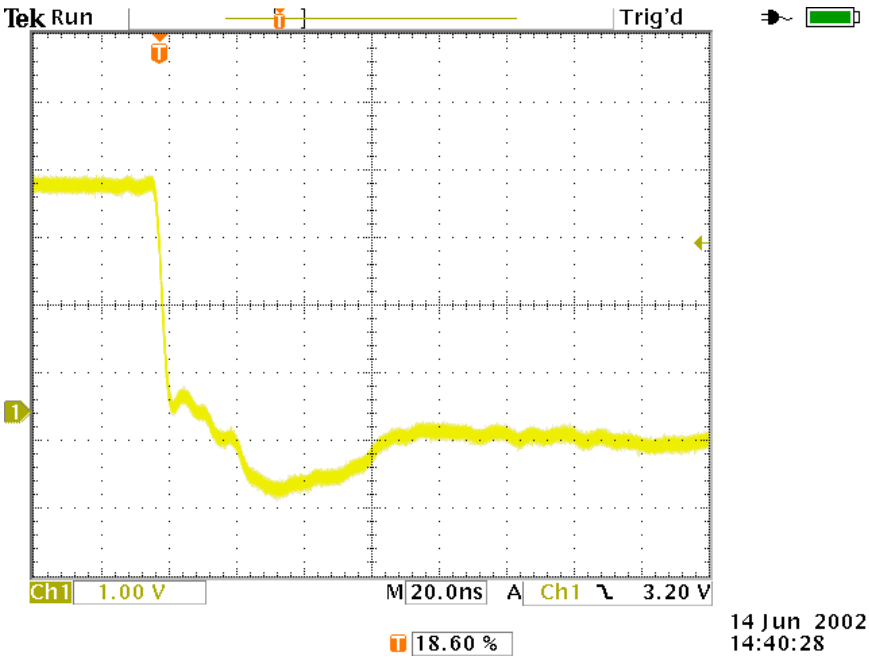
One twisted pair + digital cables R= 120 Ohm (1 MHz)



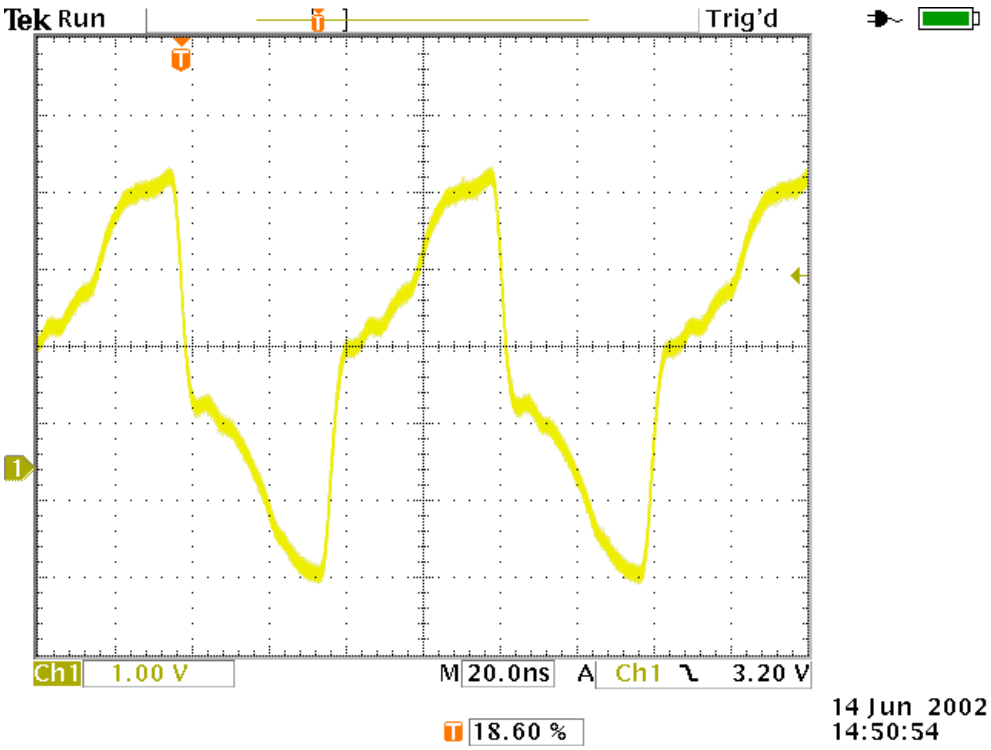
One twisted pair + digital cable R= 60 Ohm (12 MHz)



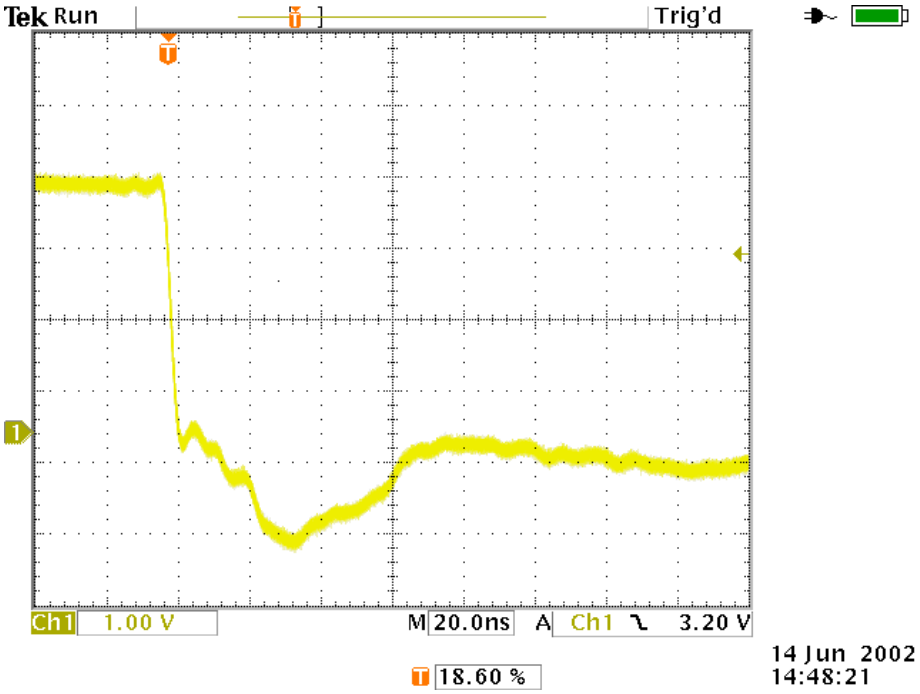
One twisted pair + digital cables R= 60 Ohm (1 MHz)



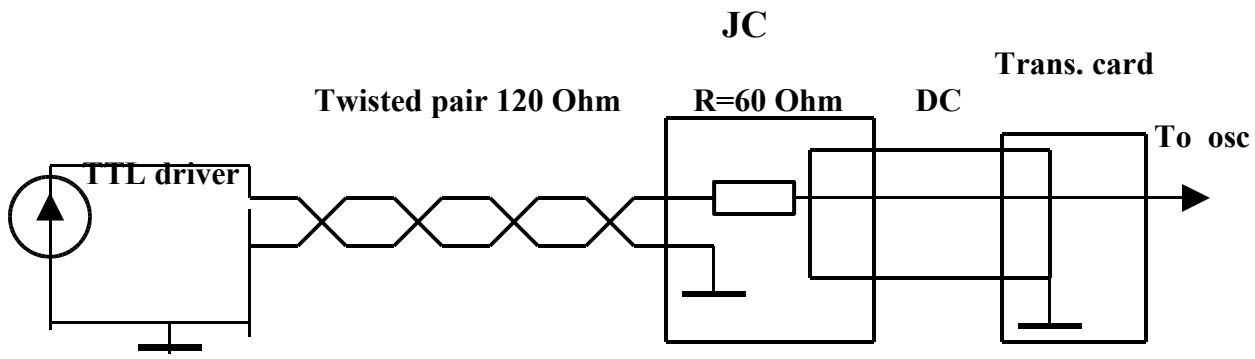
One twisted pair + digital cable R= 50 Ohm (12 MHz)



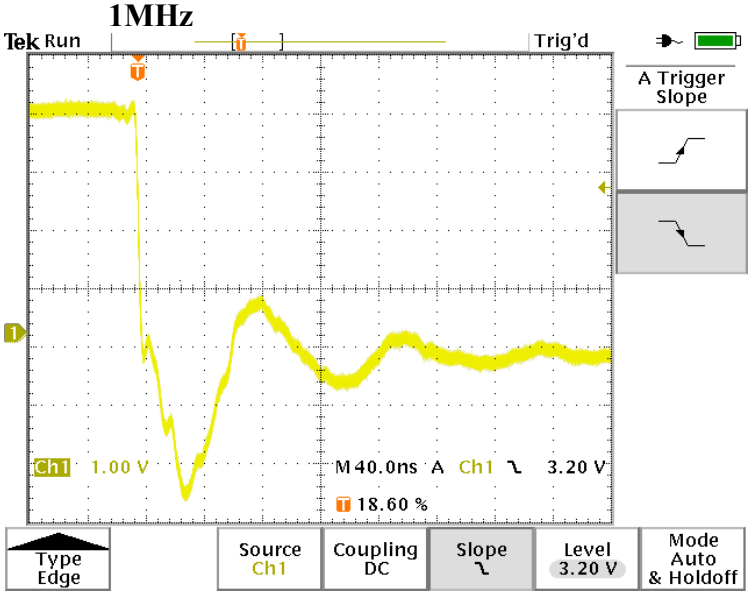
One twisted pair + digital cables R= 50 Ohm (1 MHz)



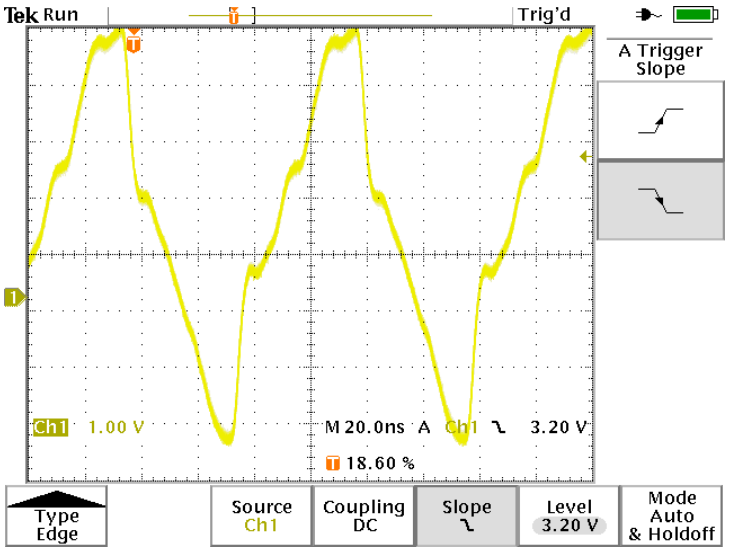
One twisted pair + digital cable for the Mode0, Mode1, CH_Mode, PR_IN signals R= 60 Ohm



1MHz

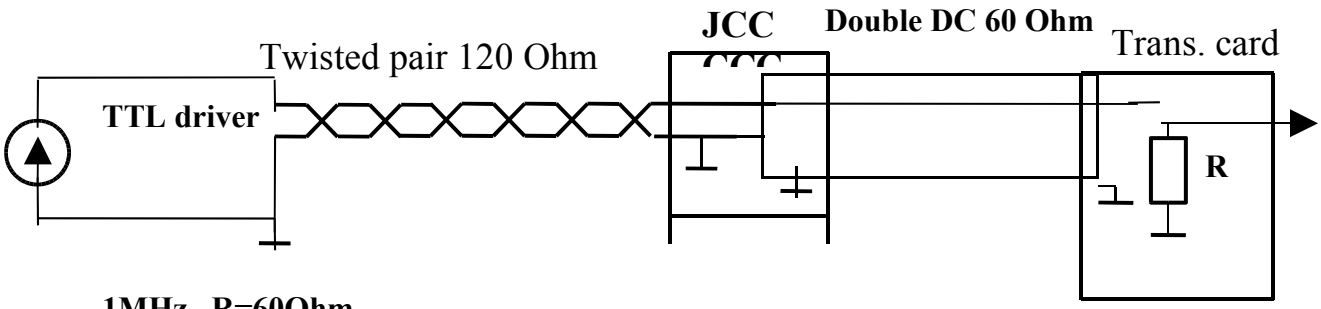


12MHz

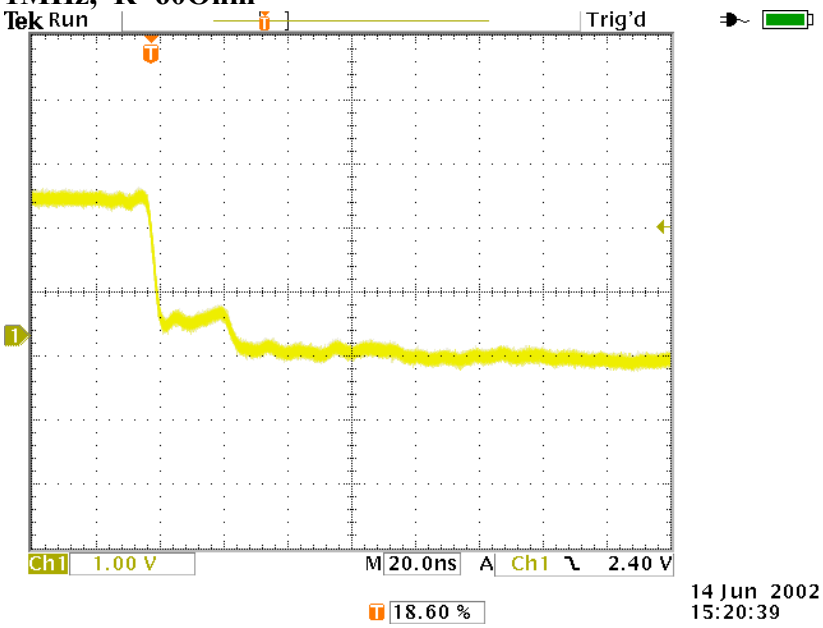


Parallel termination one twisted pair + double digital cabel

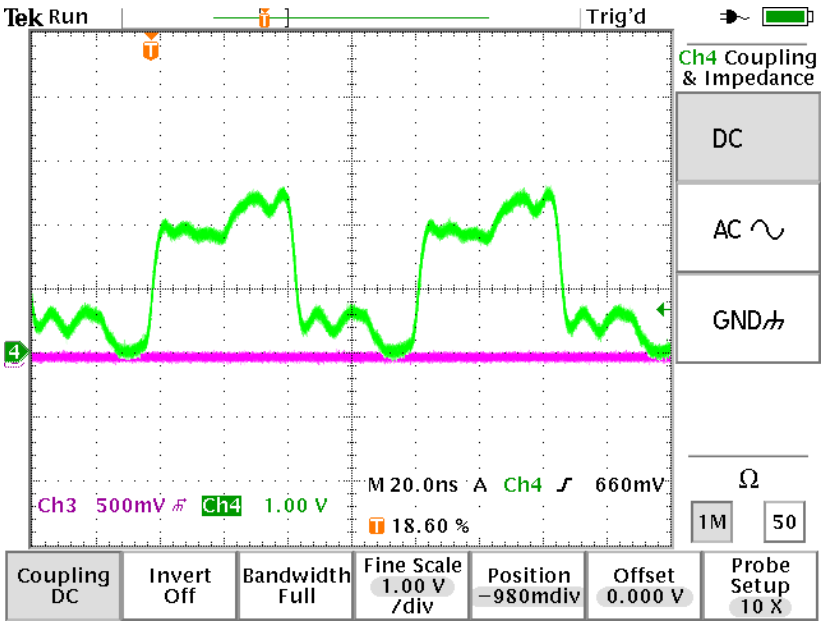
for the Mode0, Mode1, CH_Mode, PR_IN signals



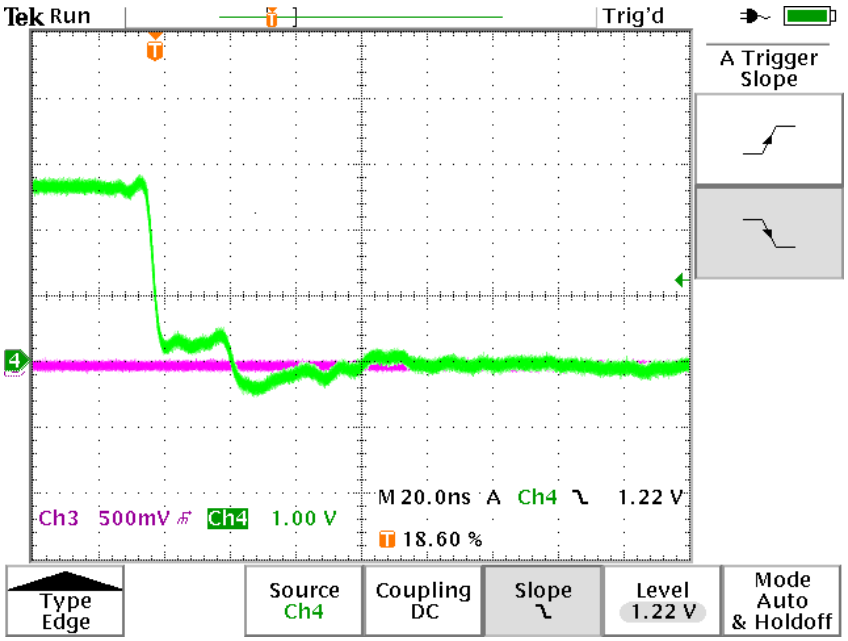
1MHz, R=60Ohm



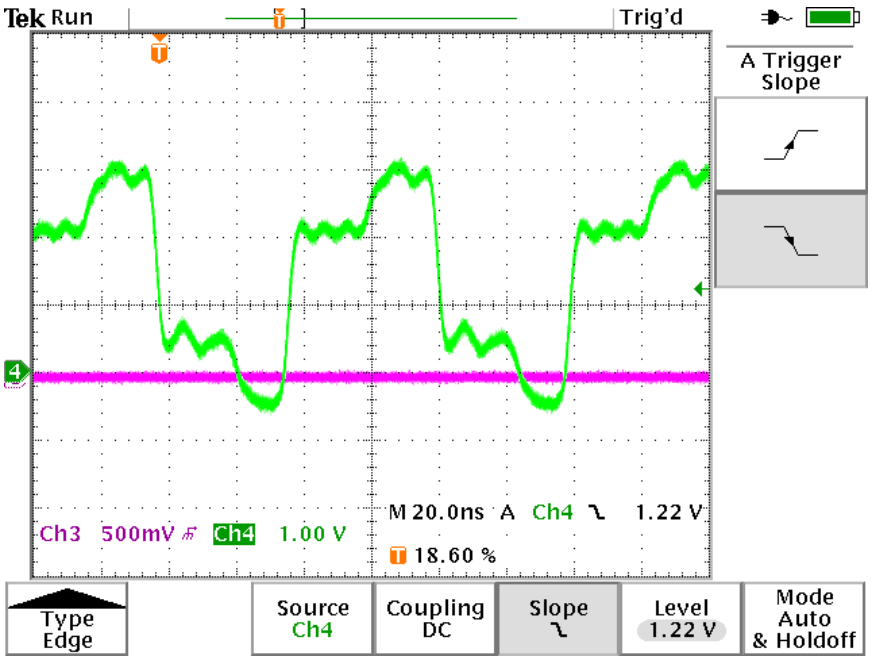
12 MHz, R=60Ohm



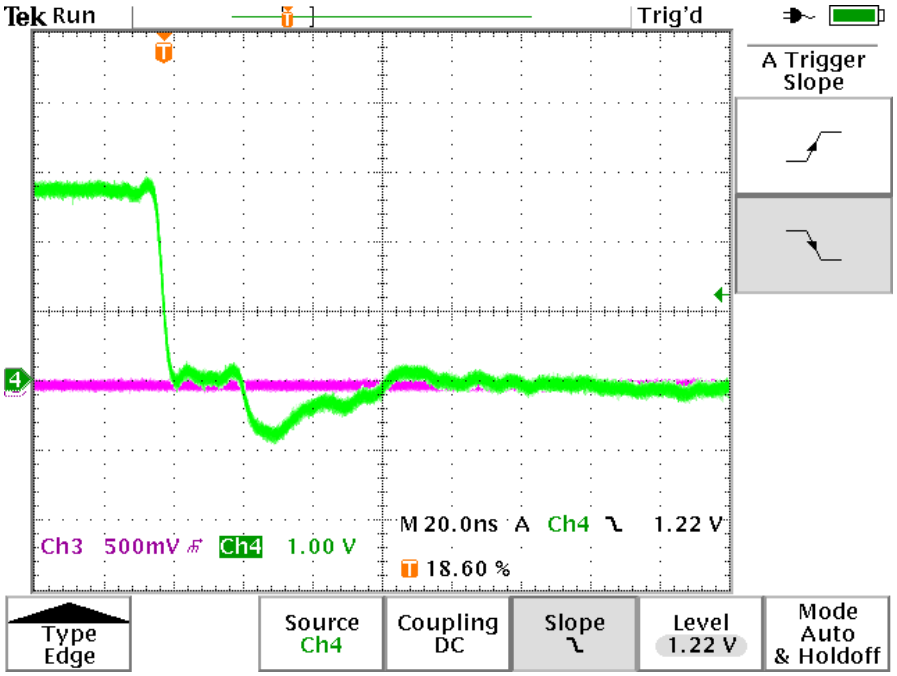
1MHz, R=90Ohm



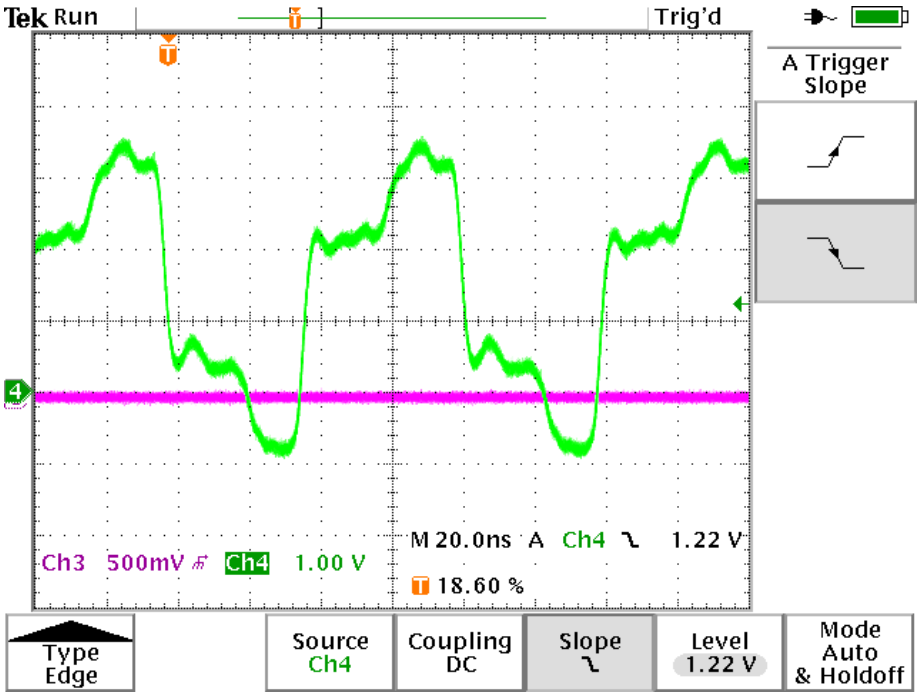
12 MHz, R=90Ohm



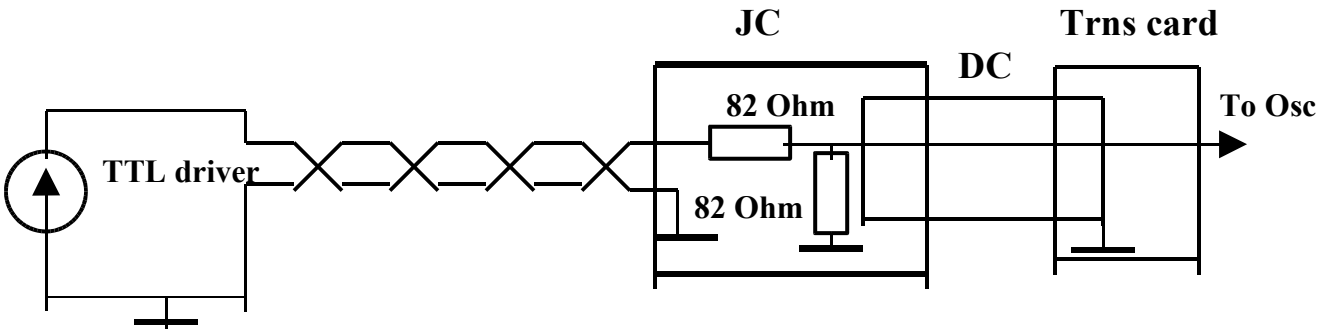
1MHz, R=120 Ohm



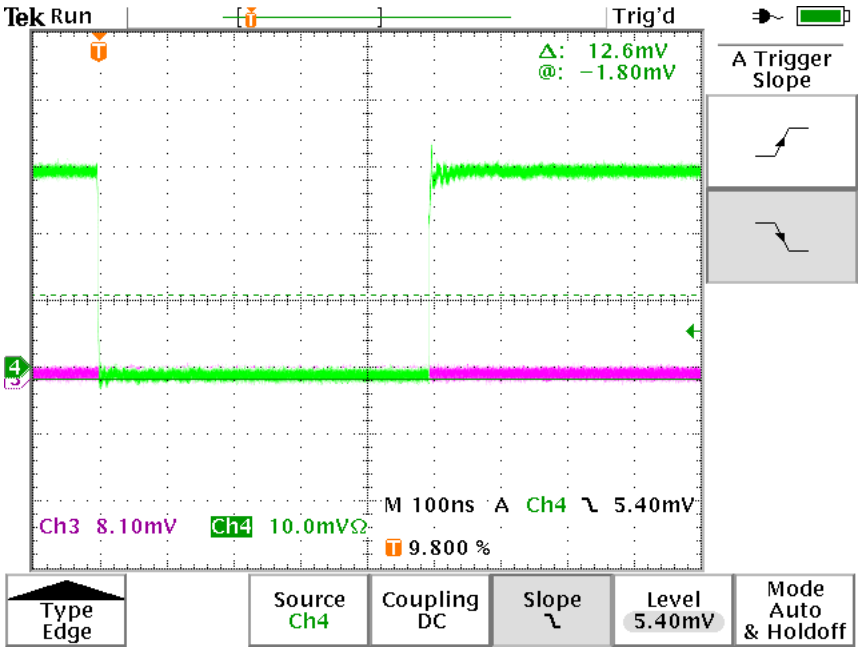
12 MHz, R=120 Ohm



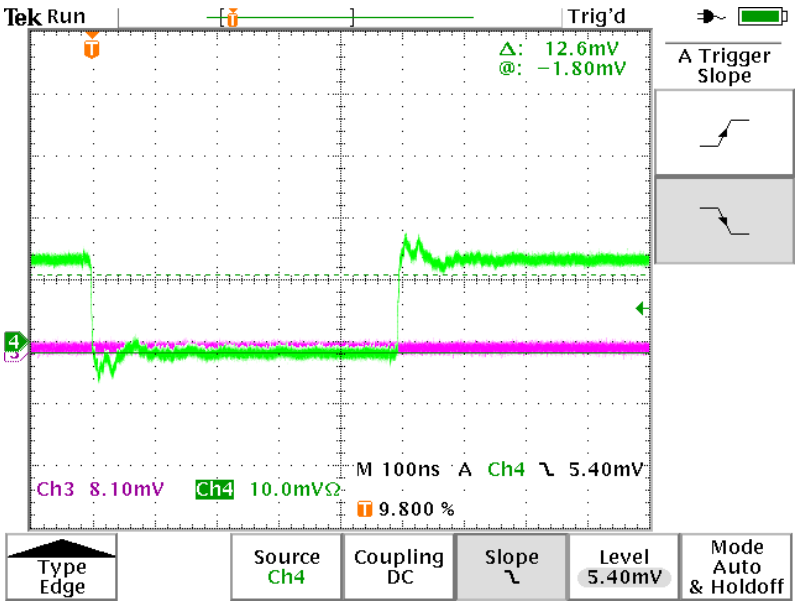
The termination on the JC for the twisted pair+digital cabel



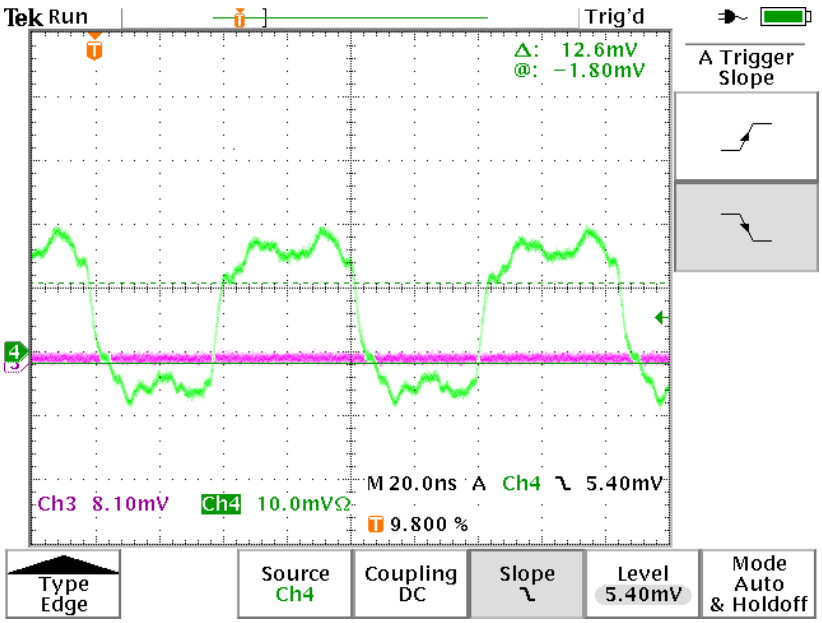
TTL driver output 1 MHz



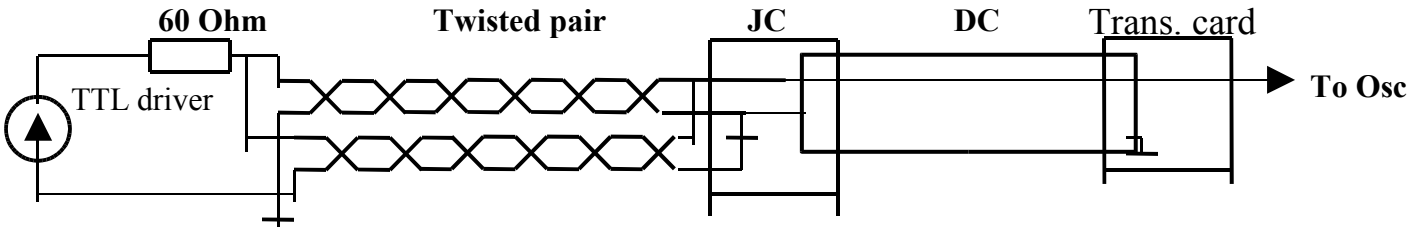
The same signal on the transition card



The same configuration for the 12 MHz

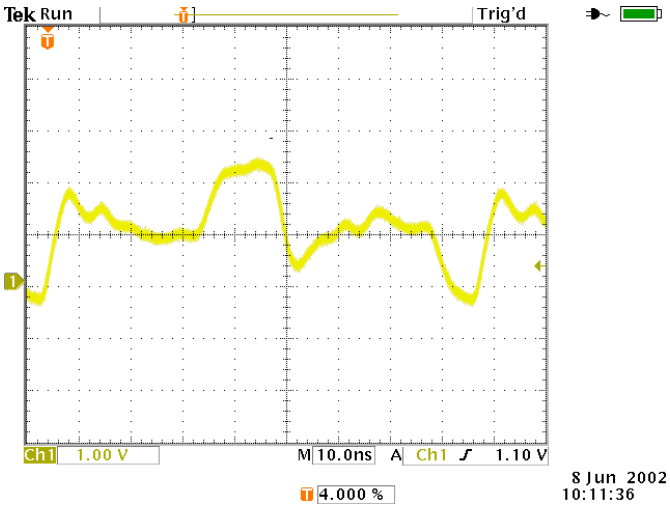


Two twisted pairs in parallel + digital cable open single ended signal

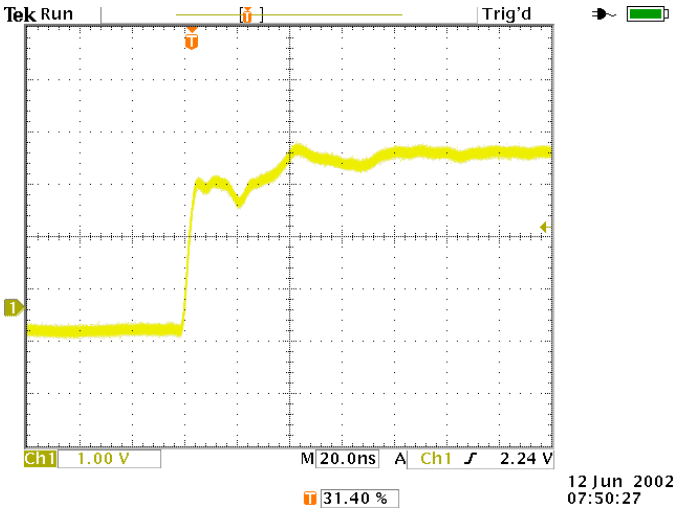


Two twisted pairs in parallel + digital cable characteristic resistense measurment (see the first page)

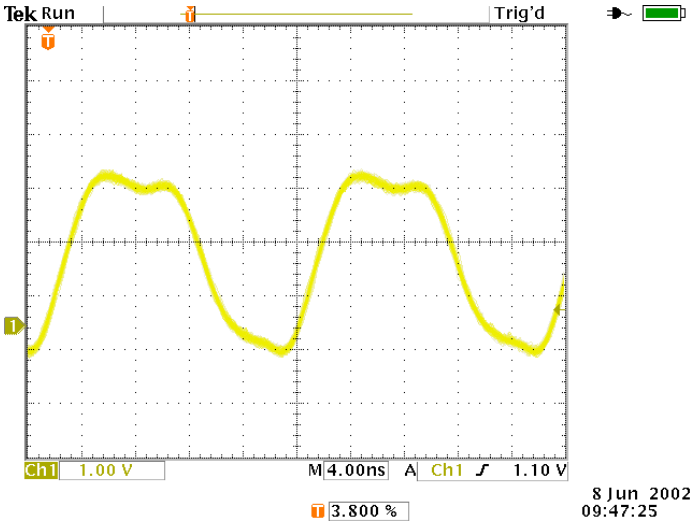
R= 60 Ohm



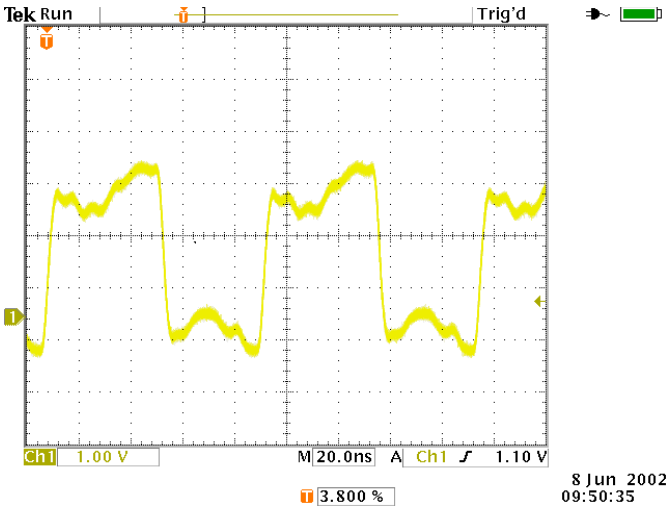
Two twisted pairs in parallel + digital cable open ended signal (1 MHz)



Two twisted pairs in parallel + digital cable open ended signal (53 MHz)



Two twisted pairs in parallel + digital cable open ended signal (12 MHz)



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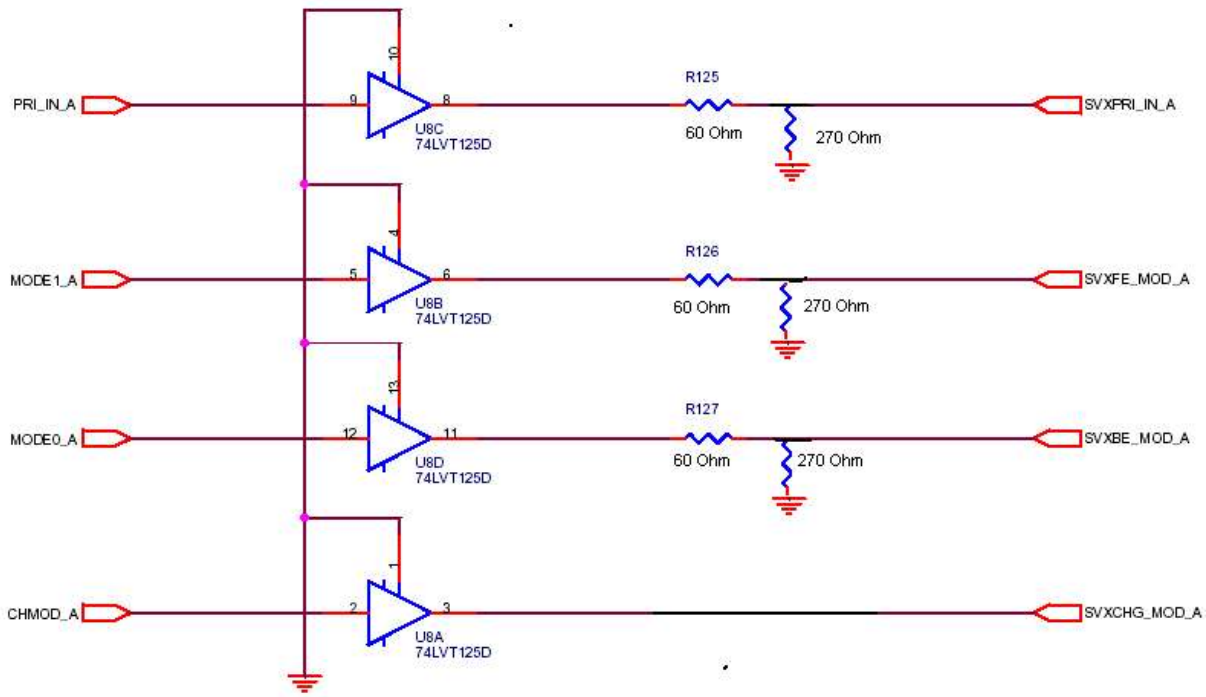
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