CR4 and CR10 TP3 Specifications

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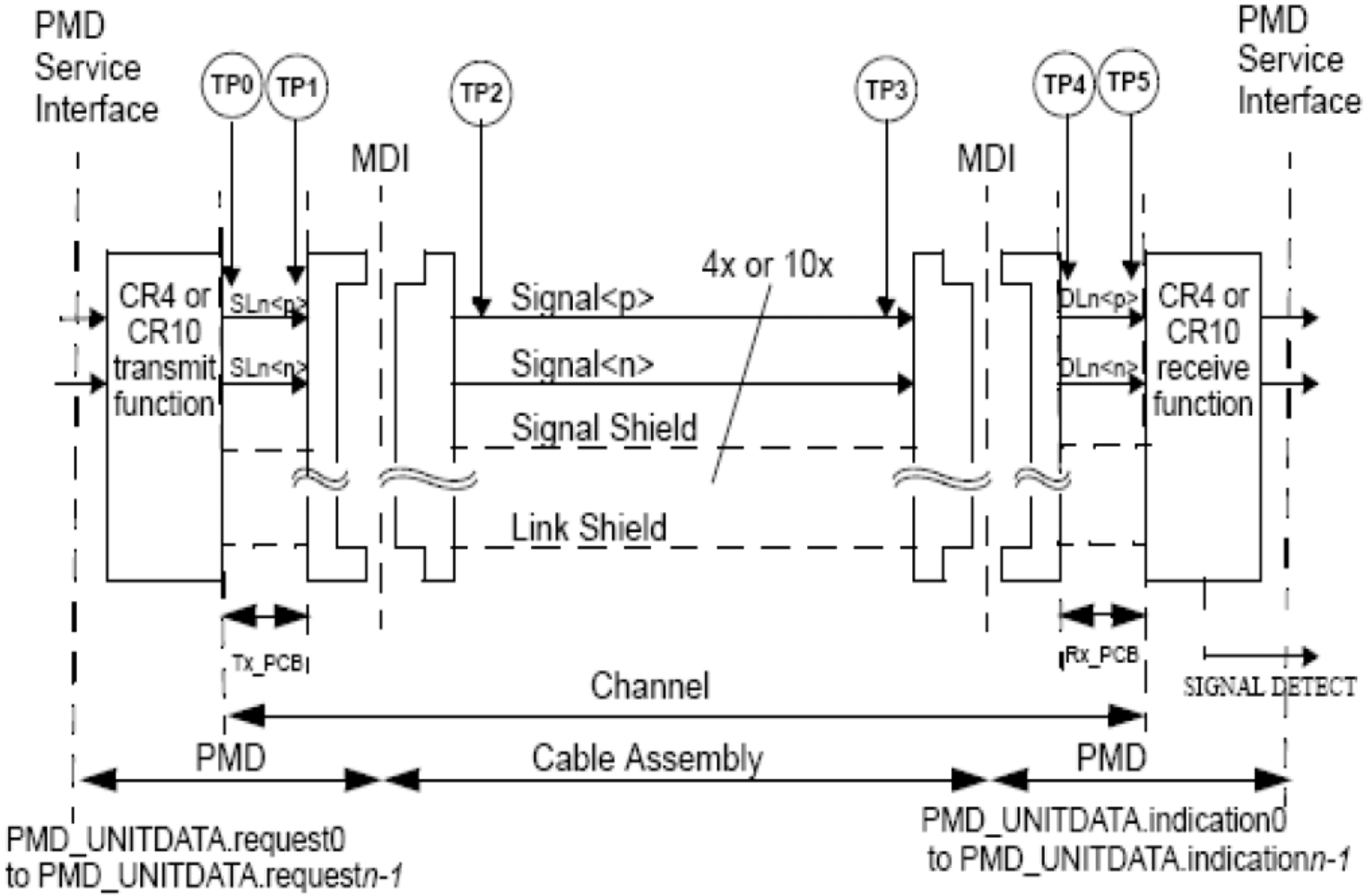
Test Points for Clause 85



Present Rx Testing Clause

Existing Text

85.8.4.1 Bit error ratio

The receiver shall operate with a BER 10^{-12} or better when receiving a compliant transmit signal, as defined in 85.8.3, through a compliant cable assembly as defined in 85.10 exhibiting the maximum insertion loss of 85.10.2.

Change section heading to:

85.8.4.1 Receiver interference tolerance"

Change text to:

"The receiver interference tolerance shall consist of two separate tests as described in Annex 69A with the parameters specified in Table 85-XX for CR4 and CR10. The channel coefficients for the CR channel should be:

b1=2.54e-5

b2=1.94e-10

b3=1.52e-20

The data pattern for the interference tolerance test shall be the test patterns 2 or 3 as defined in 52.9.1.1. The receiver shall satisfy the requirements for interference tolerance specified in Annex 69A for both tests."

Proposed Test Setup

- Base channel b parameters are described in revised 85.8.4.1:
  b1=2.54e-5
  b2=1.94e-10
  b3=1.52e-20

- Measure mTC relative to this channel.

- All other Tx channels must be transmitting PRBS31 and terminated on cable side of TP(2&3) All other Rx channels must be receiving PRBS through a channel with mTC no larger than the Rx under test. Noise must be flat to +/-6dB from 1.0GHz to 5.15625GHz.

TP3 Table 85-?

Parameter	Units	Value		Notes
		Test1	Test2	
Target BER		1E-12	1E-12	
Mtc		1	0.15	
Broadband Noise	mVrms	3.0	16.3	
Applied SJ	UIp-p	.115	.115	
Applied RJ	UIp-p	0.13	0.13	
Applied DCD	UIp-p	0.035	0.035	

“a" Mtc is defined in Section 85.XX
"b" Applied random jitter is specified at a BER of 10–12.