



Selecting Test Limits for Standards Compliant Channels & Permanent Links

This article explains the Limit naming convention and associated Test Parameters for testing of Standards compliant Channels & Permanent Link

ANSI/TIA-568.2-D specifies the following parameters for Channels & Permanent Links.

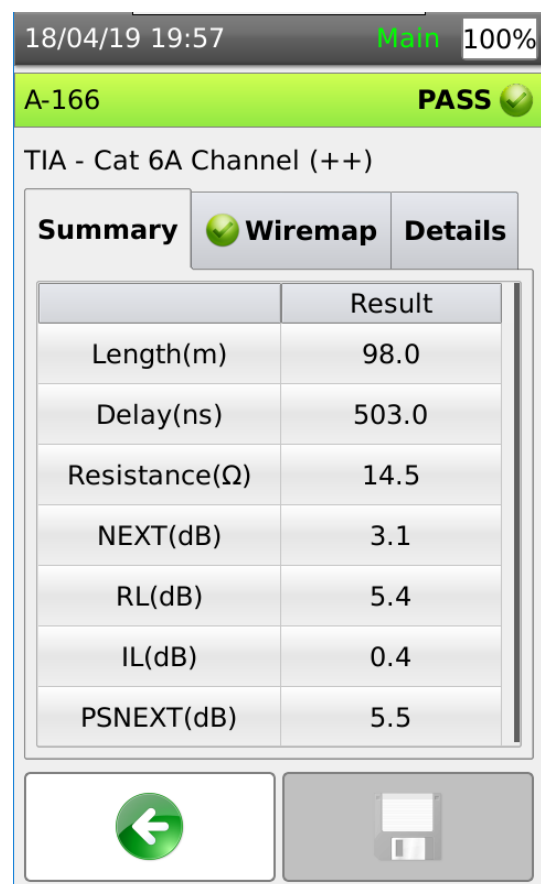
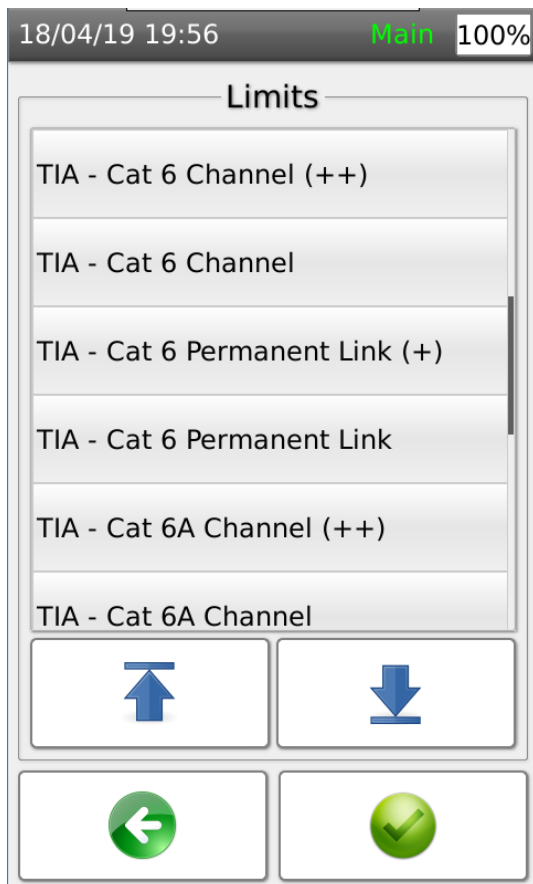
TEST PARAMETER	CHANNEL	PERMANENT LINK
Length	✓	✓
DC Loop Resistance	✓	✓
DC Resistance UnBalance	✓	
Return Loss	✓	✓
Insertion Loss	✓	✓
NEXT Loss	✓	✓
PSNEXT Loss	✓	✓
ACRF	✓	✓
PSACRF	✓	✓
TCL	✓	
ELTCTL	✓	
Propagation Delay	✓	✓
Propagation Delay Skew	✓	✓
PSANEXT Loss	✓	✓
Average PSANEXT Loss	✓	✓
PSAACRF	✓	✓
Average PSAACRF	✓	✓

DC Resistance UnBalance, TCL and ELTCTL are not required to be tested in Field. TestPro provides separate Test Limits to include above parameters for a PASS/FAIL criteria.

Limit: **TIA-Cat 6 Channel** will do a PASS/FAIL for all required parameters *excluding* the optional parameters of TCL, ELTCTL, DC Res UnBalance.

Limit: **TIA-Cat 6 Channel (++)** will do a PASS/FAIL for all required parameters *including* the optional parameters of TCL, ELTCTL, DC Res UnBalance.

Limit: **TIA-Cat 5e Channel (+)** will do a PASS/FAIL for all required parameters *including* the optional parameters of DC Res UnBalance.



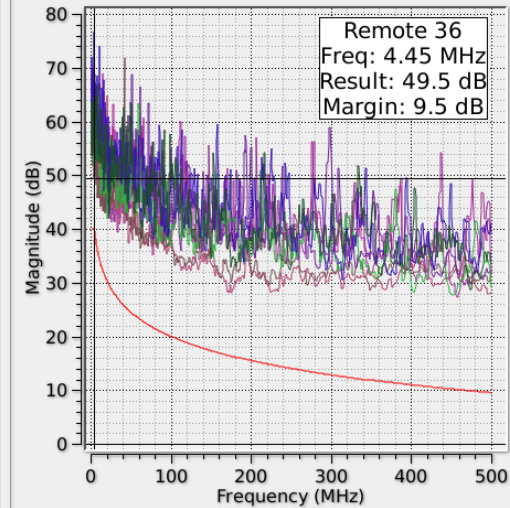
DC Resistance (Ω)

Loop UnBal. in Pair UnBal. P2P

Pair	Result	Limit
12	0.127	0.423
36	0.125	0.423
45	0.315	0.423
78	0.014	0.423



TCL



Navigation controls: Left arrow, Right arrow, Zoom in (-), Zoom out (+), Back arrow, Home icon, List icon.