



## 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.

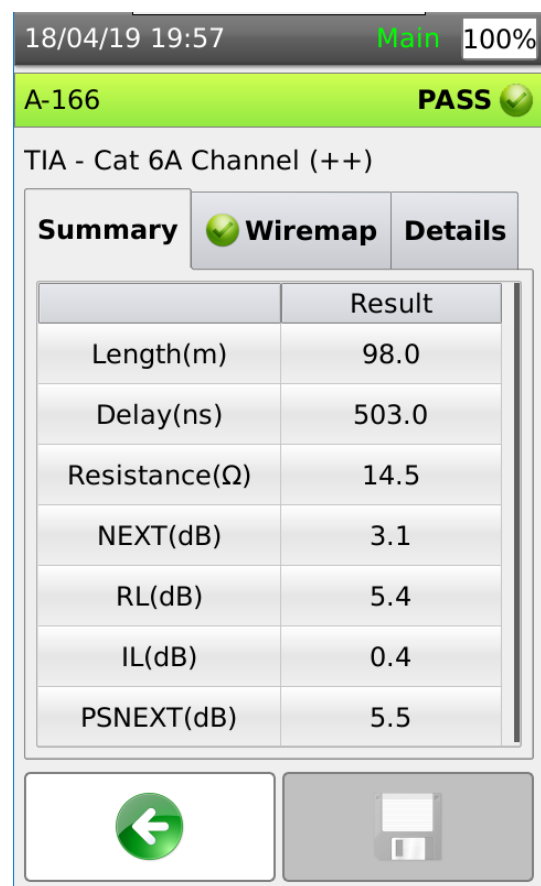
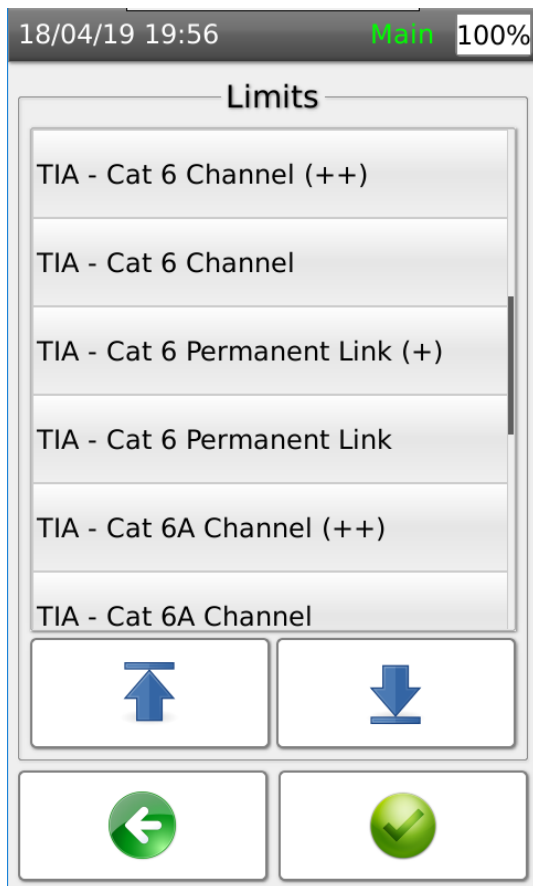
TEST PARAMETER	CHANNEL	PERMANENT LINK
Length	✓	✓
DC Loop Resistance	✓	✓
DC Resistance UnBalance	✓	
Return Loss	✓	✓
Insertion Loss	✓	✓
NEXT Loss	✓	✓
PSNEXT Loss	✓	✓
ACRF	✓	✓
PSACRF	✓	✓
TCL	✓	
ELTCTL	✓	
Propagation Delay	✓	✓
Propagation Delay Skew	✓	✓
PSANEXT Loss	✓	✓
Average PSANEXT Loss	✓	✓
PSAACRF	✓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



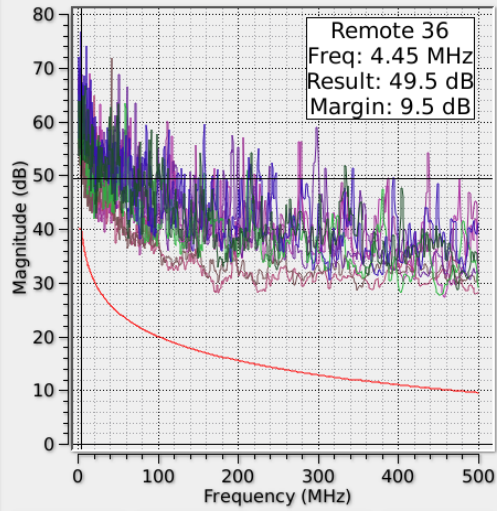
### DC Resistance ( $\Omega$ )

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 including left and right arrows, zoom in (+) and zoom out (-) buttons, and a bottom row with a back arrow, a document icon, and a list icon.