

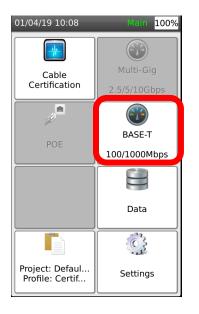
# **Testing Cabling for Ethernet Performance**

This article describes how to test a link for its Ethernet performance. Every TestPro comes with the capability of testing a link for 10Mbps, 100Mbps and 1Gbps Ethernet. If you have the Gigabit option and AD-NETCABLE adapter, you can go further and test to 2.5, 5 and 10Gbps.

# Part 1: Basic testing to 1Gbps

## 1. Select BASE-T

Power ON TestPro. From the Home Screen, press the BASE-T icon



Remember to use the side port on the unit for this test.

# 2. From the BASE-T screen, select

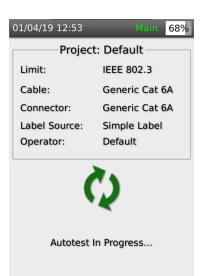
Autotest. Note that if a valid device is detected at the far end, it will connect automatically





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#### 3. Test in progress screen



#### 4. Test Result Screen

Note the signal to noise ratio is given for each speed. The greater the SNR the better. To see per pair detail, press Detail

01/04/19	12:54	_	Main 68%		
			PASS 🥥		
1			<u>1</u>		
3					
1 1 2 3 6 5 4 7 8 4 7 8					
-					
Approximate Length: 2.2 m					
Summa	ary Det	ail			
Rate	SNR (dB)	Limit (dB)	Margin (dB)		
1G	9.5	0.0	9.5		
100M	12.9	0.0	12.9		
10M	> 26	0.0	> 26		

# 5. Note that wiremap and length results are also provided.

Save results or press the back arrow to exit

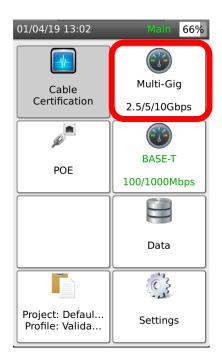
01/04/19 12:55 Main 68%						
				PASS 🥥		
1 2 3 6 5 4 7 8 1 2 3 6 5 4 7 8						
o o o Approximate Length: 2.2 m						
Summa	ary D	etail				
SNR Rate	12 (dB)	36 (dB)	45 (dB)	78 (dB)		
1G	9.5	9.8	10.3	11.3		
100M	12.9	25.2	25.2	25.2		
10M	> 26	> 26	> 26	> 26		
<b>G</b>						



# Part 2: High speed testing to 10Gbps

This test requires the AD-NETCABLE adapter

#### 1. Press the Multi-Gig icon



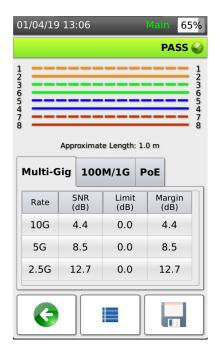
# 2. Press the Autotest icon

01/04/19 13:	Main 66%				
2.5G Auto					
Pair	SNR	Rx Power			
А	-	-			
В	-	-			
С	-	-			
D	-	-			
Autote					
C					

# 3. Note test in progress will cycle through 1, 2.5, 5, and 10Gbps tests

01/04/19 13:05	Main 66%			
Project: Default				
Limit:	IEEE 802.3			
Cable:	Generic Cat 6A			
Connector:	Generic Cat 6A			
Label Source:	Simple Label			
Operator:	Default			
5				
Autotest In Progress				
Connecting at 2.5G				

## 4. The result screen





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# Notes:

- 1. From the results screen you can get pair level details.
- 2. Note that a small (< 5 dB) margin may not guarantee good performance. This is because the cabling at rest is 'best case' If the attached devices are transmitting traffic and sourcing PoE, the SNR will decrease on an active circuit.



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