

# TestPro CV100 Multifunction Cable Certifier

Ultimate Precision Cable Certifier that delivers fast, standards - compliant copper and fiber certification, POE Validation and multi - gigabit network testing - in a single handheld platform.



**Quality In Precision Cable Test. Delivered**

# CV100: Cable “Certification” & “Verification” Tester Multifunction Testing Solution

The AEM TestPro CV100 is a next-generation cable certification and verification tool and network tester designed for today's high-performance IT infrastructure. In a single handheld device, it allows you to:

- **Certify copper (CAT8 and beyond) and fiber cabling up to the latest standards structured cabling.**
- **Verify Power over Ethernet (PoE) delivery for devices like cameras, Wi-Fi access points.**
- **Test multi-gigabit network speeds (1G / 2.5G / 5G / 10G) to ensure readiness for future applications, upto 40G.**
- **Troubleshoot live networks quickly — identifying faults in cabling, connectivity, or power without carrying multiple tools.**

Built for system integrators, contractors, and enterprise IT teams, the TestPro CV100 is used in projects such as data centers, smart buildings, airports, railway networks, and CCTV rollouts.

It not only helps speed up installations but also generates professional reports that prove the infrastructure is certified and ready for use.

The TestPro CV100 ensures reliable performance for any structured cabling or fiber project.



Pain Point	TestPro CV100 Delivers
Carrying multiple testers for copper, fiber, PoE, and network checks is expensive and inconvenient.	One tool does it all – copper & fiber certification, PoE load testing, Multi-Gig qualification, and network troubleshooting.
Slow certification tests delay project handover and increase labor costs.	Fast testing – CAT6A certification in just 6 seconds. Projects finish quicker.
When devices (CCTV, Wi-Fi, access points) don't work, it's unclear if the issue is cable, switch, or power.	Pinpoints the problem – with PoE TruePower testing and Multi-Gig SNR analysis.
Uncertainty about whether existing cabling will support future speeds (2.5G/5G/10G).	Future-proofs the network – verifies Multi-Gig performance today.
Fiber testing requires separate, specialized tools, making it complex and costly.	Built-in fiber capability – Tier-1 certification, inspection, and optional OTDR in the same platform. (*depending on model)
End users demand proof of performance for warranties and contracts.	Professional reports – automatically generated, standards-compliant, ready for handover.
Buying separate instruments (certifier + fiber tester + PoE tester) means <b>high cost of ownership</b> .	Lower cost – all major functions can be integrated into one device. Additional features can be updated on same device, instead of procuring multiple devices.

The AEM Test Pro CV100 is in association with AEM, a global provider of advanced test and measurement solutions, headquartered in Singapore, with additional operations in USA & EU. Asian contec ltd (under its brand names STANONE ), is responsible for sales, technical support, warranty support & calibration, in India.

Professional cable installers can utilise the TestPro CV100 to verify installations and provide test reports as part of the structured cabling manufacturer's warranty process. The TestPro CV100 is approved by leading structured cabling manufacturers for use in their warranty programs, ensuring that your projects are fully validated and backed by manufacturer support.

# TestPro Selection Guide

● Feature supported

● Feature is not part of kit but can be added with hot swappable test adapters



Test Function	TestPro CV10 K71E	TestPro CV100 K61E	TestPro CV100 K60E	TestPro CV100 K51E	TestPro CV100 K50E	TestPro CV100 K11E
CAT3 - CAT8 Certification with Detailed Printed Reports	●	●	●	●	●	●
DC Resistance Unbalance	●	●	●	●	●	●
Copper Wiremap with Distance to Fault	●	●	●	●	●	●
Single Pair Ethernet	●	●	●	●	●	●
MM and SM Tier 1 Fiber Certification	●	●	●	●	●	●
MM OTDR	●	●	●	●	●	●
SM OTDR	●	●	●	●	●	●
MM and SM Tier 2 Fiber Certification	●	●	●	●	●	●
Hybrid Powered Fiber Resistance & Voltage Test	●	●	●	●	●	●
PoE Load and Validation Testing	●	●	●	●	●	●
Multi-Gig Autotest	●	●	●	●	●	●
Multi-Gig (2.5/5/10G) SNR	●	●	●	●	●	●
100/1000BASE-T SNR Testing	●	●	●	●	●	●
BASE-T Network Connectivity	●	●	●	●	●	●
Wireless Network Connectivity** (AP Availability,Signal Strength,Ping etc)	●	●	●	●	●	●
TestDataPro Results Management Software - PC Based & Cloud	●	●	●	●	●	●
Tier-2 fiber certification, Built in OTDR : AD-OTDR-MM and SM, Type , Test reference cords (MM & Sm, SC-LC, 2m each),Launch cords (MM & SM, SC-LC, 150m each)	●					

\*\* Requires Edimax EW-7822ULC Wi-Fi USB Adapter Optional test adapters available to support SPE, MPTL, Patch Cord, Coax, Bare Wire, and much more.

## Supply of Each TestPro CV100 will Contain

- Standard:**
1. TestPro CV100 main & remote handsets (with calibration certificate)
  2. Pair of AD-CAT8.1-CH Channel Adapters
  3. Pair of AD-CAT8.1-PLP Permanent Link Adapters
  4. Hanging straps, USB cable, 2x AC power adapters, quick start guide
  5. Hard carry case
  6. USB flash drive with TestDataPro results management software Standard Warranty : 2 Years Make : AEM

**Optional:** Edimax EW-7822ULC Wi-Fi dual band USB Adapter

# High Level Testing Support Summary



## Most feature rich test platform available today

- Certify CAT 3 – CAT8
- 3GHZ Test Platform = Investment Protection
- Certify SM and MM FiberValidate Hybrid Fiber Power
- OTDR for pinpointing loss events on fiber and Tier 2 testing when combined with Optical Loss test
- Validate PoE configuration, allocated and true power (to 90W)
- Qualify Multi-gigabit link speed under traffic load (to 10GigE)
- Verify Single-pair deployments (SPE)
- Verify Long haul cable deployments beyond 100m.
- Verify Wired and Wireless Network Connectivity
- Certify CAT6A in 6 Seconds!



### Copper Certification

Certify CAT3 through CAT8.2, shows network compliance up to 40 Gbps Ethernet.



### Single Pair Ethernet (SPE)

Support for SPE Cabling standards with testing capability up to 1800 meters.



### Power Over Ethernet (PoE)

Comprehensive test function verifies PoE configuration at PSE and reports current/wattage/voltage at PD jack. Emulates PD negotiation with PSE and supports for 802.3af/at/bt, and UPoE. Sustained load testing with external load box that can “dial-up” power.



### Wired Network Connectivity Testing

Network discovery shows all connected devices including drill down into device details. Switch detail includes slot/port/VLAN. Switch name, make/model, port capabilities and MAC/IPv4/IPv6 and VLAN usage detail. Network discovery reveals connected devices with drill in capability for further investigation and troubleshooting. Troubleshooting kit includes Traceroute, ping, tone generator and more.



### Multi-Gigabit Link Speed

Validate cabling link speeds for 1/2.5/5/10GBASE-T. End-to-end Signal to Noise Ratio (SNR) measurement provides a quick and objective assessment of link performance under simultaneous traffic and PoE load conditions.



### Wireless Network Connectivity Testing

Discover all Access Points (APs), their SSID, RSSI (received power level) and Channel. Login to the AP to verify connectivity. Roaming signal strength handy for locating those pesky dead zones. Troubleshooting toolkit includes Traceroute, Ping and more.



### Fiber Certification

Dual wavelength loss and length measurement leading to tier 1 certification for Multimode and Singlemode. Hybrid powered fiber voltage/resistance measurement. Network compliance for a variety of fiber networks including 100GBASE-LR4, 40GBASE-LR4 and Fibre Channel.



### OTDR

Multimode and Singlemode OTDR adapters provide additional troubleshooting to easily pinpoint distance to a broken fiber or other loss-inducing events which cause a failure during optical loss testing. Adding OTDR testing to the optical loss testing provides Tier-2 fiber optic certification.

# Copper Certification

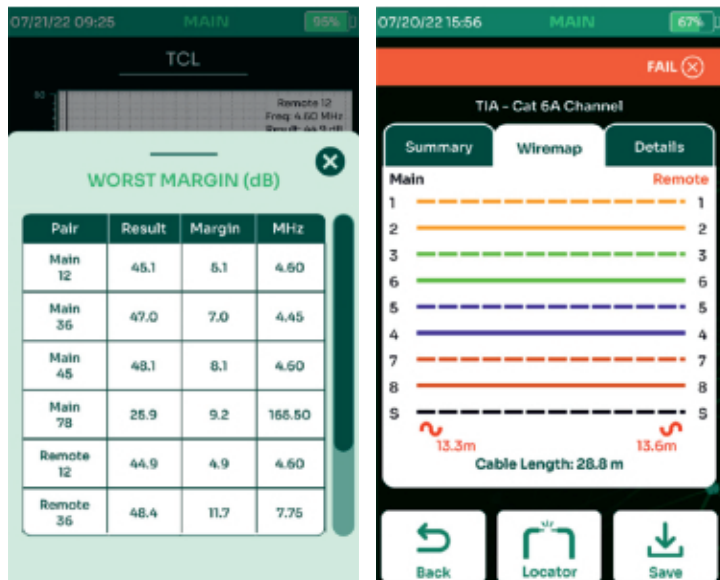
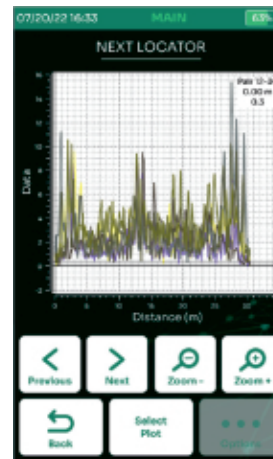
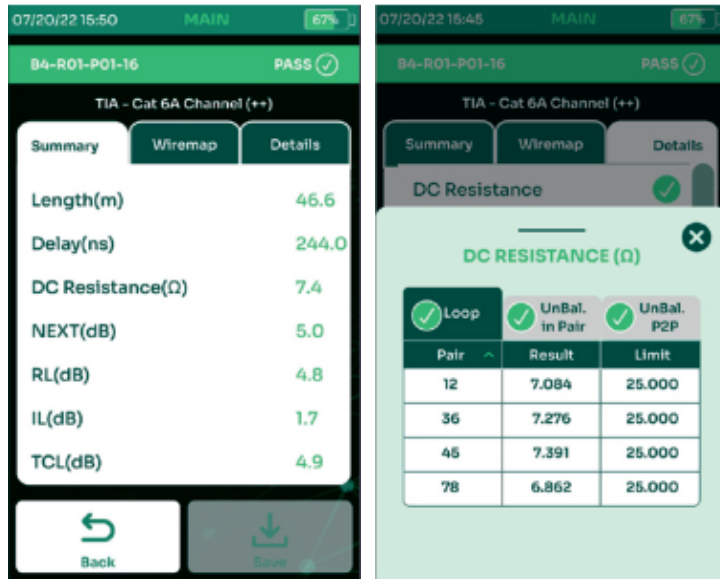
TestPro's certifier Autotest is a **one-button** operation that performs all tests required for TIA/ISO standards compliance, in addition to other parameters such as DC Resistance Unbalance, TCL, and ELTCTL. TestPro comprehensive DC measurements include both pair-to-pair and wire-to-wire resistance unbalance tests.

The Autotest also reports distance-to-fault on Shield Discontinuity, NEXT and Return Loss time-domain measurements. Autotest results are saved to memory and can be transferred to the included TestDataPro results management software or TestDataPro Cloud for collaboration, documentation and reporting.

TestPro supports testing and certification for network deployments up to 40 Gigabit Ethernet for CAT3 through CAT8.2 or Class I/II cabling system. The electrically centered test plug assures the Level 2G/VI accuracy required to support field testing to CAT8 / Class I/II, and actually exceeds the **"2000Mhz"** requirement, to offer a 3000 MHz platform.

The 3000 MHz frequency range provides investment protection as standards evolve, the test platform is ready.

TestPro's CAT6A Autotest takes only six seconds and will save you time by getting more links tested faster and with more test detail. TestPro's default Autotest includes all certification requirements, in addition to those you see noted below. Live WireMap™ provides an immediate indication of cable connected, including a visual display of pin-out connectivity and any mis-wires, much more helpful than just a red or green light.



TestPro offers fault location for Return Loss, NEXT, and Shield aiding in problem identification. Support for MPTL, Patch Cord, Single Pair Ethernet, GG45, Tera, and Coax is available through hot swappable adapters. At the completion of the Autotest, you get a highly visible Pass or Fail indication, and test results can be automatically saved with a customizable labeling scheme.

TestPro will store over 10,000 results in memory, and includes TestDataPro PC based software to organize and manage results and provide printed reports. If you prefer to upload as you test, TestDataPro Cloud allows you to upload test results via wired or wireless internet connection, through cloud.

Channel and Permanent Link Adapters that support CAT3 through CAT8.1 are included in the TestPro CV100K50E, K51E, K60E, K61E, K71E Kits.

- Provides end customer a proof of quality
- Protects the installer
- Supports manufacturer's system warranty
- Includes complete test results, details about the equipment used, test configuration and application compatibility

# Multi-Gigabit Link Speed Qualification

Increasing bandwidth requirements and the growth of enterprise applications are also driving broader deployments of 10 Gigabit Ethernet.

TestPro's Multi-Gigabit testing provides a Pass/Fail indication as well as visibility into available headroom even down to per pair detail.

TestPro's Multi-Gigabit Signal to Noise Ratio (SNR) based test capability puts the link being tested under live network environment conditions with both traffic and PoE load, if a PSE is present. This provides a quick and meaningful assessment of link performance, available headroom, and even alien crosstalk effects on a link.

Wireless access points (APs) are one of today's most broadly deployed IoT devices and 802.11ac Wave 2 wireless APs require 2.5 and 5 GigE backbone speeds to run at maximum performance. Additionally, these devices can be PoE powered and by the nature of the link speed, require all four pair to be terminated.

TestPro can certify the cabling infrastructure in accordance with TIA standards, verify link speed in accordance with IEEE 802.3bz specific to 1 / 2.5 / 5 / 10GigE, and verify loaded PoE++ in accordance with IEEE 802.3bt to 90W, as well as the lower power levels for IEEE 802.3at/af and UPoE.

## VALIDATION TEST THROUGH INTEGRATED SIDE RJ-45 PORT

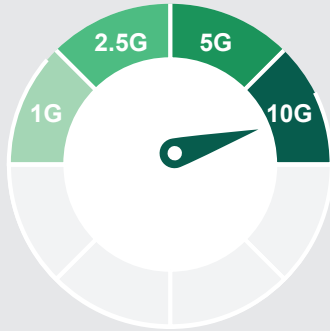
- 10/100 Mbps
- 1 Gbps

## POE LOAD TEST

- 802.3 af/at/bt
- UPoE

## QoS TEST

- SNR 2.5 Gigabit
- SNR 5 Gigabit
- SNR 10 Gigabit



TestPro's Multi-Gigabit Autotest is a quick and easy one button operation to ensure that a cabling link will support the desired network rate.

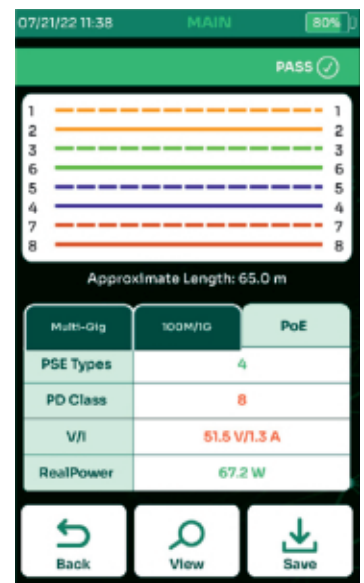
### Feature Available in

K60E

K61E

K71E

This feature may be added to any TestPro system by purchasing the MultiGig/PoE test adapter pair separately: Model AD-NET-CABLE.



# Power Over Ethernet (PoE) Validation

TestPro **Validates PoE** with the most comprehensive test functionality available and in compliance with TIA 1152A, IEEE 802.3 af/at/bt standards, and UPOE.

What sets TestPro apart is the ability to validate Real Power load at the jack where an end device will be deployed. TestPro emulates a Powered Device (PD), such as a WAP or Camera by setting it to the specific standard applicable to that device. TestPro negotiation with the Power Source Equipment (PSE) to request information about the switch and the highest level of power load from the PSE for the selected standard.

For intermittent power issues, TestPro allows for sustained loading testing over longer periods, through external loads. This allows you to monitor live for any power fluctuation that drops below the required level threshold.

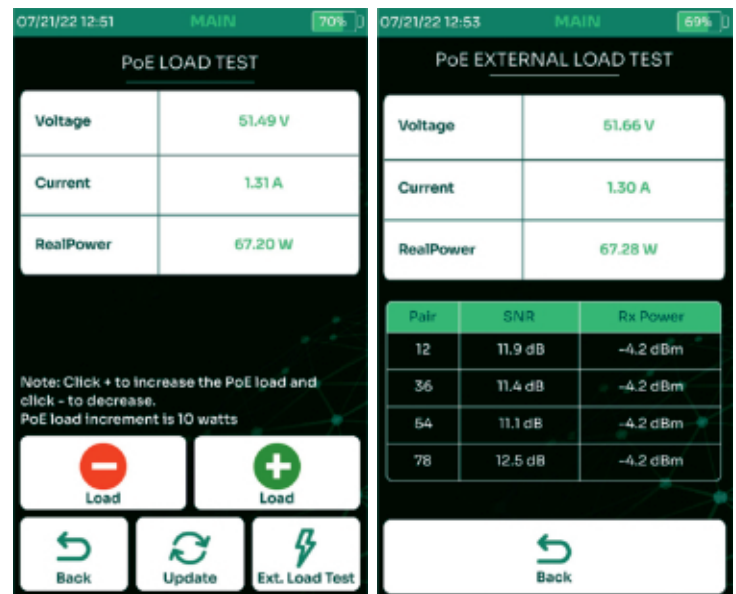
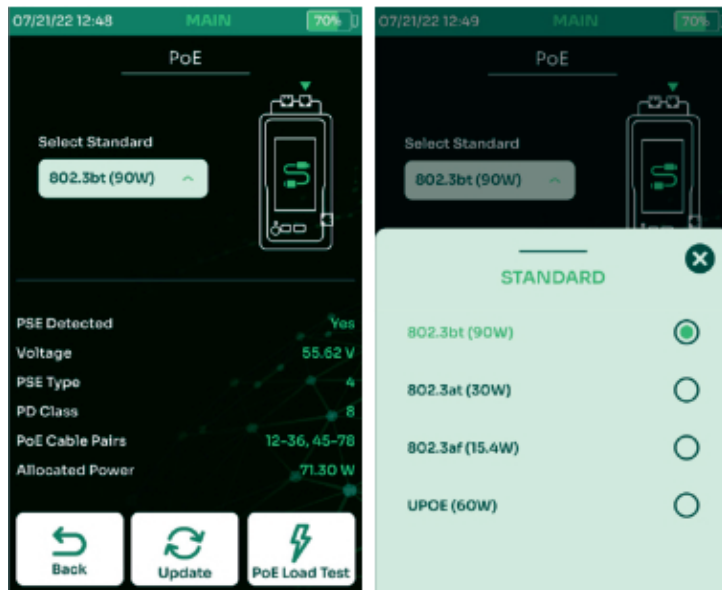
TestPro can also characterize the cabling links for DC resistance unbalance parameters either as part of a standard cable certification Autotest or as a one-off quick test.



Feature Available in		
K60E	K61E	K71E
This feature may be added to any TestPro system by purchasing the MultiGig/PoE test adapter pair separately: Model AD-NET-CABLE.		

## POE TESTING CAPABILITIES

- Load Testing for Real Power at Jack
- Current, Wattage, Voltage
- PSE Detection
- PSE Type
- PD Class
- PoE Cable Pairs
- Sustained Power Load Monitoring



# Wired & Wireless Connectivity Testing

Wired and wireless connectivity testing is useful for moves/adds/changes as well as general troubleshooting, TestPro will connect to a live network through the AD-NET-CABLE adapter, or wireless using the optional Edimax Wi-Fi USB adapter.

## WIRED CONNECTIVITY TESTING

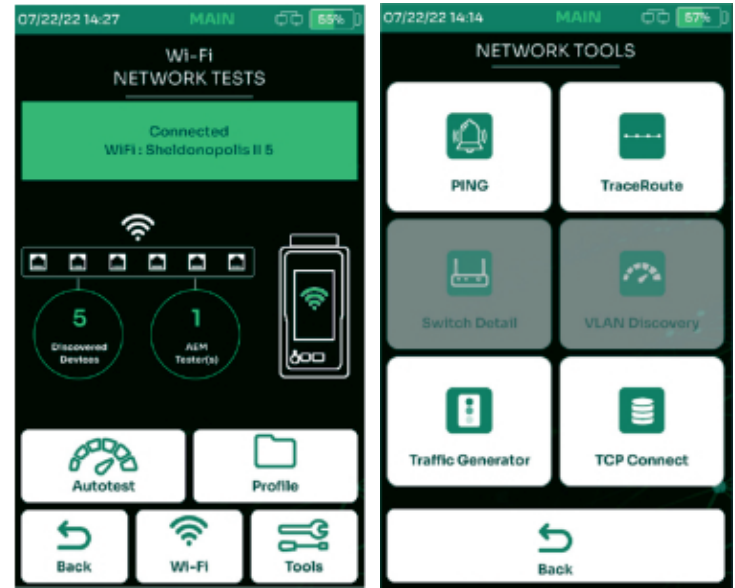
- Auto-discovery reports connected devices and details
- See latency and delay with Ping and Traceroute
- Understand in-depth connected switch detail including slot/port/VLAN
- See graphical breakdown of frame count by VLAN
- Quick Autotest runs a suite of tests for you and provides a complete test report

## WIRELESS CONNECTIVITY TESTING

- Auto-discovery reports visible access points including channel and signal strength
- Login to access point to verify connectivity
- Check roaming signal strength
- Traceroute and Ping troubleshooting tools
- Supports 2.4 and 5GHz

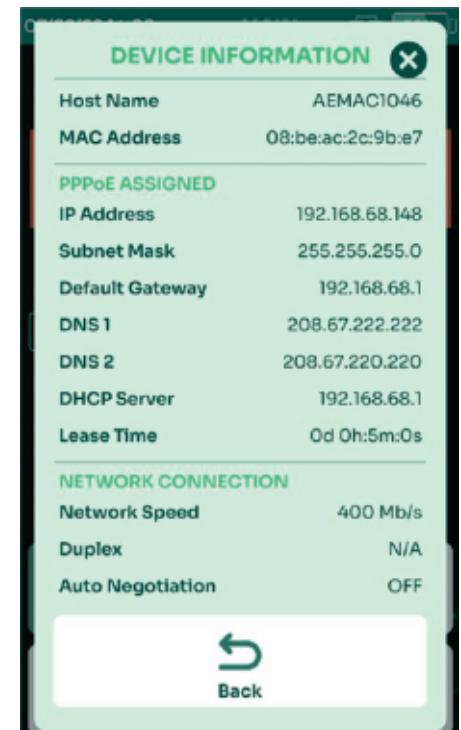
Wired Network Connectivity Testing is available in the TestPro CV100 K60E, K61E, K71E Kits. This adapter is also sold separately: Model AD-NET-CABLE.

**Wireless Network Connectivity testing is available in all models of TestPro CV100 via the optional Edimax EW-7822ULC Dual Band MuMimo Wi-Fi USB adapter. These adapters are region specific and can be purchased on Amazon or any preferred retailer.**



A handy savable Autotest function gives you the option to let the tester do all the work for you and automatically runs tests for:

- Device Information
- LAN Speed
- Network Map
- The Ping tests in the Autotest are not user-defined, they are fixed. Manual ping tests may be configured for different URLs/IP addresses, but not the autotest.
- Discovered Devices
- VLAN Discovery
- Switch Detail



# Single Pair Ethernet

Single Pair Ethernet (10BASE-T1L) is an ideal solution for secure, low-bandwidth, long-distance, bidirectional communication with power delivery. While Ethernet is already the global standard, SPE extends its reach and broadens its applications by enabling communication and power transmission over distances of up to 1 km.

Because many IoT devices are inherently designed for Ethernet, SPE removes the need for protocol conversion, extra controllers, or the complex cabling required in older non-Ethernet systems.

With its rapid adoption for IoT sensors and connected devices, Single Pair Ethernet is becoming a key technology. TestPro stands out as the first and only cable certifier capable of testing Single Pair Ethernet systems.

**A-002**

**TestTime Project** : 5/12/2021 12:07:54PM  
**Profile Operator** : SPE1  
**CableType/NVP** : SinglePairEthernet\_Default\_CUSTOM54C6,68%  
**Connector** : UTPSPE

**Limit Model** : :10BASE-T1LSTP1000m(SOIEC11801-9906)  
**SerialNumber** : TestProCV100 :Main:5200-1227,Remote:5200-1228 :3.5.R1  
**DeviceSoftware** :  
**CalibrationDate** : :Wednesday,January13,2021  
**MainAdapter** :  
**RemoteAdapter** : :PROBESPE :PROBESPE

Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	12	6.4	2390.8
PropDelay(ns)	Pass	12	10.0	8834.0
DelaySkew(ns)	Info	12	0.0	0.0
DC Loop Resistance(Ω)	Pass	12	0.474	47.660
Res.Unbal.wire-wire(Ω)	Info	12	0.000	0.200

**RFPParameters**

Parameter	Result	Main			Remote										
		Pair	WorstMargin (dB)	WorstValue (dB)	Pair	WorstMargin (dB)	WorstValue (dB)								
Return Loss	Pass	12	12.5	13.5	19.96	12	23.6	0.18	12	9.6	10.2	0.12	12	19.7	0.10
Insertion Loss	Pass	12	10.0	9.9	0.14	12	0.0	0.10	-	-	-	-	-	-	-

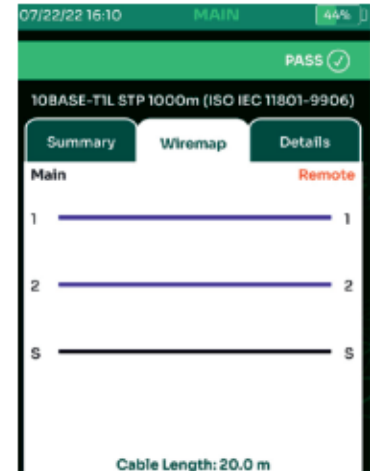
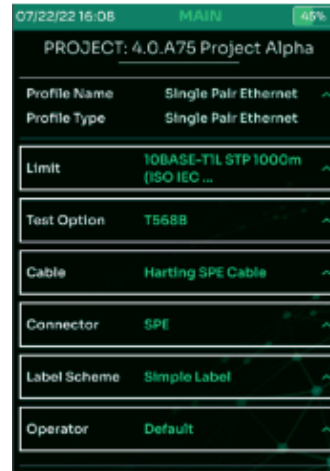
**InsertionLoss**

**ReturnLoss**

TestPro performs SPE certification testing fully compliant with tester requirements outlined in TIA 5071. The SPE certification test includes:

- Dual-ended testing with test frequency range from 100kHz to 20MHz and step size of 20kHz
- Wiremap, DC Resistance, Return Loss, Insertion Loss and optionally TCL.
- Length (up to 1,500m) and delay measurement
- Provides a PASS/FAIL result; detailed test results can be saved, viewed, and converted to pdf with the convenient TestData Pro software

Currently available test adapters include 63171.1 (also known as LC), 63171.6, breakout adapter for GG45, TE MATENet, Rosenberger, and many variants of automotive SPE test adapters.



## Testing Requirements

Field testing requirements for SPE are specified in TIA 5071. AEM supports SPE with hot swappable test adapters that can be added to any TestPro. TestPro supports both IEC 63171-1 and 63171-6 connector styles and is fully compliant with TIA 5071.

**TestPro is the only tester to offer SPE certification testing compliant with the TIA 568.5 standard.** TestPro covers the requirements for both high-speed short reach SPE links, and long distance SPE links with the same device.

**Single Pair Ethernet function is available in all Test Pro models.**

# Fiber Optic Certification

**TestPro's fiber optic loss test adapters provide Tier-1 certification as well as customizable limits for both Multimode and Singlemode Fiber Optic premises cabling.** Additionally, these adapters include an integrated Visual Fault Locator (VFL) to provide a quick indication of a break in the fiber.

As part of the four second Autotest, TestPro will perform the following measurements for both Singlemode and Multimode.

- Dual Ended Loss
- Length and Propagation Delay
- Loop Resistance of Copper Pair in Hybrid Powered Fiber
- Dual wavelength: 850/1300nm (MM), 1310/1550nm (SM)
- LiveWiremap™

### Additional Test

- Single Ended Loopback Loss
- Optical Power Meter

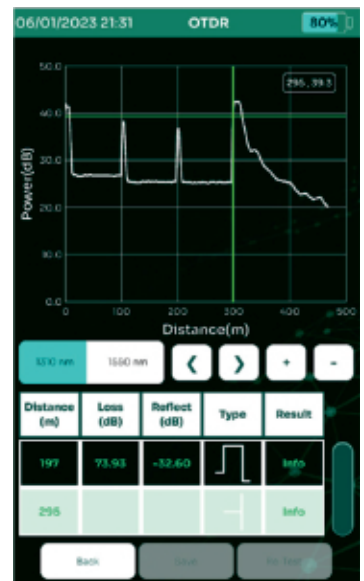
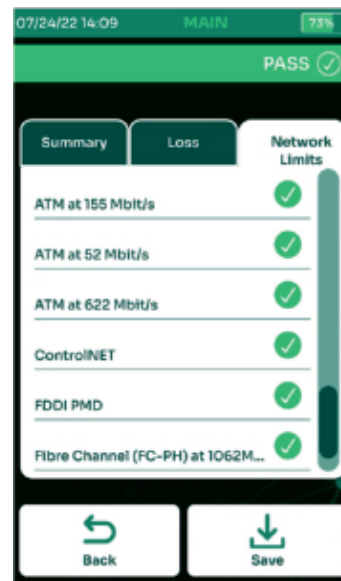
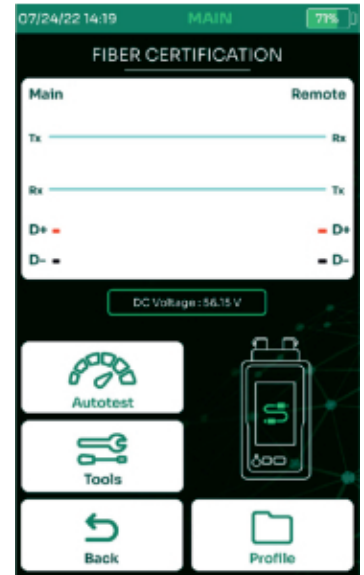
For deployments where hybrid powered fiber is being used, TestPro's fiber optic loss test adapter provides not only certification of the fiber optic cable, but also provides you with the ability to measure the loop resistance of the copper pair of the hybrid powered fiber to ensure its integrity after installation. The adapters will also measure voltage at the end point to ensure voltage is present for powering remote devices/PoE extenders and is a convenience for the technician to have everything needed for testing at their fingertips.

The Multimode loss test adapters support testing of OM5 fiber in addition to earlier generation fiber standards. An Encircled Flux (EF) compliant Multimode source means no need for bulky external adapters.

With the addition of AEM's Multimode and Singlemode OTDR test adapters, which connect to the TestPro handset just like any other test adapter, users gain additional troubleshooting functionality along with Tier-2 certification capability. The OTDR gives technicians in the field the ability to easily pinpoint the location of broken fiber or other loss events causing an optical loss test to fail.

### FIBER END-FACE INSPECTION

One of the most common reasons for fiber test failures is a dirty end-face on a fiber connection. Use the USB connected Fiber Scope to ensure the fiber end face is clean before testing.



### Feature Available in

Feature	K11E	K41E	K51E	K61E	K71E
SM & MM Loss Test Adapters	✓	✓	✓	✓	✓
SM & MM OTDR Test Adapters	✗	✓	✗	✗	✓
USB Fiber Inspection Probe	✓	✓	✓	✓	✓

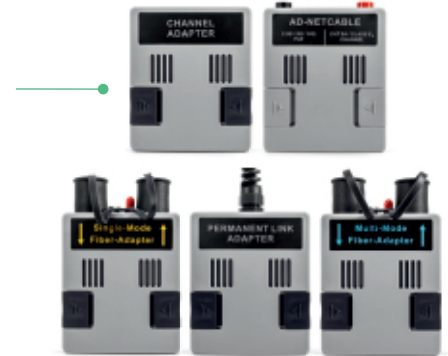
# TestPro Platform Overview

## Exceeds CAT8 / Class II

3000MHz/3GHz platforms exceeds current standard giving you investment protection assurance for future requirements.

## Hot Swappable Test Adapters

A variety of test adapters are available for TestPro. The most commonly used adapters are included in purpose-built kits, optional adapters allow extension of platform use.



## Impact Protection

Dense rubber housing protects test equipment and display from drops. 2 Year standard warranty protects your investment. Warranty extends to 5 Years upon product registration.

## Touchscreen

Impact resistant touchscreen.

## Built-in Kickstand

Allows for ease of use when test equipment is used in a set position.

## Live Wiremap

The moment the remote unit is connected, TestPro gives an audible sound and shows wiremap and continuity for both copper and fiber optic

## Intuitive UI

Available test function automatically adjusts when hot swappable test adapters are swapped.

## Hot Keys

Quick access buttons for Autotest Initiation and Return to Home Screen.

## CONNECTIVITY OPTIONS

Micro USB allows direct connect with PC.

USB A supports Edimax, Wi-Fi adapter and Fiber Inspection Scope as well as USB flash drive for firmware updates and test results export.

RJ-45 Ethernet port supports 10/100/1000 BASE-T testing with no test adapter needed.

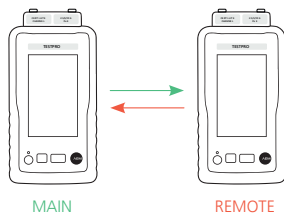


# TestPro Platform Flexibility

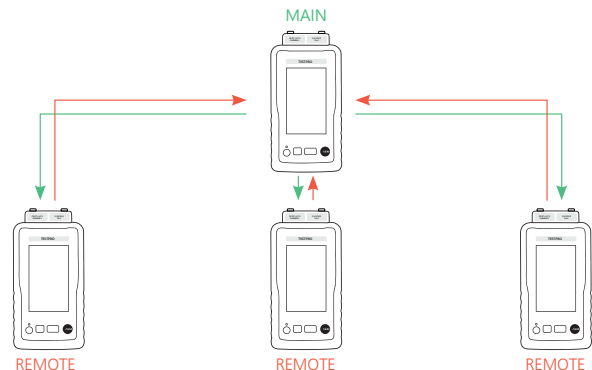
AEM dual handset product kits contain two full function test platforms, that can each be configured as a Main or a Remote. This means, that both handsets can be independently deployed, giving you double the test equipment during end device implementation phase for wired and wireless network connectivity troubleshooting.

- When certifying copper and/or fiber optic, technicians at both ends can see full test results, aiding in problem identification and remediation.
  - Test can be initiated from either end, cutting down on the time it takes to run back and forth in half, when only one technician is on the job.
  - Need to throw manpower at the job to get it done fast? If you have two or more TestPro product kits, configure one platform as the Main, and all others as Remotes. Technicians out in the office area can leapfrog each other, while one technician stays at the MDF simply moving from port to port and connecting with each remote as it sees them
- through live Wiremap, and then can initiate the autotest.
- During implementation phase and troubleshooting switch connectivity, link speed and PoE load, test platforms can be independently deployed, giving you double the test equipment to get the job done fast.
  - Troubleshooting Wi-Fi issues, both units can be independently deployed.

Copper/Fiber Certification - Autotest can be initiated from both ends or automatically upon connection



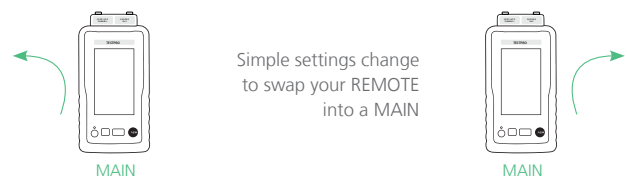
One Main to Many Remotes / Copper Cert - Autotest can be initiated from both ends or Automatically upon connection



Etc. - Unlimited number of Remotes

Independently deploy each handset to become standalone testers for the following:

- Fiber Loopback
- PoE Load Testing
- SNR based Multi-Gig Link Speed Testing (2.5,5,10GigE)
- Wired Network Connectivity (Discovery/Switch Detail, Troubleshooting Toolkit)
- Wireless Network Connectivity (SSID Discovery/ Roaming Signal Strength, Troubleshooting Toolkit)



## Technical Specifications:

TestPro Platform (All Versions)	
<b>Measurement Time</b>	CAT6A auto-test (including TCL and resistance unbalance tests): 6 sec CAT8 Class II auto-test: 30 sec
<b>Wiremap</b>	All possible wire connection situations identified, as long as two wires are connected end-to-end on any pins
<b>DC Resistance</b>	Range: 0 to 100 $\Omega$ Loop resistance, pair-to-pair resistance unbalance measurement meets TIA 1152A specs
<b>Tone Generator</b>	730Hz and 1440 Hz
<b>Dual-Ended RF Measurements IL, RL, NEXT, ACR-F, TCL</b>	All mandatory and optional RF measurements as per TIA and ISO/IEC standards Single-pair link testing license with supported length for dual ended testing greater than 1,000 m
<b>Length (Propagation Delay) Measurement</b>	Dual ended test: 0 – 600m with 0.1m resolution (0 – 6,000 nsec with 1 nsec resolution) Delay skew measurement with 1 nsec resolution
<b>Supportable Cabling</b>	4-pair twisted pair cable 1-pair twisted pair cable Coax cable Optical cables (SM/MM pair)
<b>TDR-RL</b>	0-100 m (resolution: 1 m) Distance-to-fault
<b>TDR-NEXT</b>	0-100 m (resolution: 1 m)
<b>Impedance</b>	0-1000 $\Omega$ 0.1 $\Omega$ resolution in 90-110 $\Omega$ range

## Technical Specifications:

Test Standards Compliance & Conformity	
<b>Copper Certification</b>	ANSI/TIA-568.2-D, ISO 11801 ANSI/TIA-1152-A (Levels IIIe and 2G), IEC 61935-1 Ed. 4 (Levels IIIe and V) and IEC 61935-1 Ed. 5 Draft 46/595/CD (Levels VI Class I and Class II)
<b>Fiber Optic Certification</b>	TIA-568.3-E and ISO/IEC 14763-3 Ed 2.1
<b>Single Pair Ethernet</b>	SPE Cabling Standards: TIA 568.5 (in draft), ISO/IEC TR 11801-9906-2020. SPE Field Test standards: TIA-5071 (in draft), IEC 61395-4 (in draft). IEEE Single Pair Ethernet Application standards supported: 1000BASE-T1, IEEE 802.3bp; 100BASE-T1, IEEE 802.3bw; 10BASE-T1, IEEE 802.3cg.
<b>Power Over Ethernet</b>	IEEE 802.3 af/at/bt, UPoE
<b>Multi-Gigabit Link Speed Testing</b>	IEEE 802.3 up to 10GBASE-T
<b>Wired Network Connectivity Testing</b>	CDP, LLDP
<b>Wireless Network Connectivity Testing</b>	IEEE 802.11N & IEEE 802.11AC maximum wireless speed up to 300Mbps on 2.4GHz band or up to 866Mbps on 5GHz band
TestPro Platform (All Versions) Each platform in a kit comes with a Certificate of Calibration traceable to NIST.	
<b>Size</b>	200mm X 105mm X 50mm
<b>Display</b>	5" TFT color touch screen, resolution 800 x 480 pixels
<b>Battery</b>	Li-Ion, 3.7V / 13,200 mAh, 9 hr battery life typical
<b>Power Adapter</b>	5V, 3A (supplied), 5-12V (supported), 2.1mm DC jack
<b>Platform Operating System</b>	Linux
<b>USB Interfaces</b>	USB A for flash drive storage, Micro USB for connecting to PC
<b>RJ-45 Side Port</b>	10/100/1G network connectivity test port
<b>Test Adapter To Platform Interface</b>	High-frequency connector rated for 5000 insertion cycles, Hot-swappable
<b>Measurement Engine</b>	9-channel dual-ended mixed-mode RF and DC measurement engine. Industry's highest performance patent-pending measurement architecture for data cable testing.
<b>Frequency Range</b>	0.1 – 3,000 Mhz
Power Over Ethernet (K60E, K61E, K71E)	
<b>Features/Test Function</b>	PoE source type detection, Load test up to 90W, Identification of PoE pairs, Substained load monitor
Multi-Gigabit Ethernet (K60E, K61E, K71E)	
<b>Autotest Parameters</b>	Signal to Noise Ratio at each speed across each pair, Cable Diagnostics, PoE Detection
<b>Network Testing</b>	Ethernet network discovery, Switch detail (Port, VLAN, Capabilities), Traceroute Traffic generator/monitor, Ping, TCP Connect, Wi-Fi : Identify SSID's and measure RSSI

## Technical Specifications:

Fiber Optic - Common to both MM and SM (K11E, K41E, K51E, K61E, K71E)		
<b>Test Interface</b>	Supplied Test Interface: interchangeable FC on Tx port and interchangeable LC on Rx port. FC-LC (Tx) and LC-LC (Rx) Test Reference Cords included with all adapter kits (AD-MM-K01E, AD-SM-K01E). All TestPro Kits with fiber option include above plus SC interface adapters for Tx and Rx ports, FC-SC (Tx) and SC-SC (Tx and Rx) Test Reference Cords.	
<b>VFL Light Source</b>	Wavelength 650nm	
<b>Volt-Ohm Meter Measurement Range, Hybrid Powered Fiber</b>	0-60V DC, 0-100 Ω	
Fiber Optic - Multimode and Singlemode Adapter - Specific Information		
	Multimode AD-MM-01E Adapter	Singlemode AD-SM-01E Adapter
<b>Wavelengths</b>	850 nm, 1300 nm	1310 nm, 1550 nm
<b>Light Source</b>	LED	Fabry-Perot Laser
<b>Transmit Power</b>	-20dBm typical	-2dBm typical
<b>Encircled Flux</b>	Compliant to IEC-61280-1-4 and TIA52614-C-2015 as per supplier data sheet	Not applicable
<b>Length Measurement</b>	Range: up to 2km (subject to maximum of 10dB link loss), Length measurement resolutions: 0.1m	Range: up to 20km (subject to maximum 20dB link loss), Length measurement resolution: 0.1m
<b>Dual Ended Loss</b>	Dual ended loss measurement: 0 to -10dB	Dual ended loss measurement: 0 to -20dB
Fiber Optic - OTDR		
Parameter	Multimode	Singlemode
<b>Wavelength Range</b>	850 nm +/- 10 nm, 1300 nm +35/-15 nm	1310 +/- 25 nm, 1550 +/- 30 nm
<b>Compatible Fiber Type</b>	50/125 μm, 62.5/125 μm for multimode	Single mode
<b>Event Dead Zone</b>	2.5 m typical for 850 nm, 4.5m typical for 1300 nm	0.6 m typical for 1310 nm, 0.6 m typical for 1550 nm
<b>Attenuation Dead Zone</b>	2.5m typical for 850 nm, 4.5m typical for 1300 nm	3.6 m typical for 1310 nm, 3.7m typical for 1550 nm
<b>Dynamic Range</b>	25dB for 850 nm, 27dB for 1300 nm	29dB for 1310 nm, 27dB for 1550 nm
<b>Max Distance Range Setting</b>	40 km	130 km
<b>Distance Measurement Range</b>	9 km for 850 nm, 35 km for 1300 nm	80 km for 1310 nm, 130 km for 1550 nm
<b>Reflectance Range</b>	-14 dB to -57 dB for 850 nm, -14 dB to -62 dB for 1300 nm	-14 dB to -65 dB for 1310 nm, -14 dB to -65 dB for 1550 nm
<b>Pulse Width</b>	3, 5,10, 15,...,24995, 25000 nsec	3, 5,10, 15,...,24995, 25000 nsec

# TestPro & NSA Comparison Sheet

<p>**Note on MPTL Testing: To be Standards compliant for MPTL certification, all certifiers must use a Permanent Link adapter on one end and a Patch Cord adapter (same category as cable under test) on the other end. Any MPTL cable run may be tested with NSA, but this is a Qualification+/- Validation test, not certification</p>	TestPro CV100	Network Service Assistant
ANSI/TIA 1152-A Field Tester Standard Defines Pass/Fail Criteria for both Single-ended and Bi-directional testing	Certification with Bidirectional Testing	Qualification + with Unidirectional Testing
Length	Yes	Yes
Delay	Yes	Yes
DC Loop Resistance	Yes	Yes
Insertion Loss	Yes	Yes
Return Loss	Yes	Yes
NEXT	Yes	Yes
PSNEXT	Yes	Yes
ACR-F, PS ACR-F	Yes	Yes
PSACRF	Yes	Yes
TCL	Yes	No
ELTCTL	Yes	No
DC Resistance Unbalance - in Pair & Pair to Pair	Yes	Pair-to-Pair Only
<b>Extended Capabilities</b>		
CAT3, CAT5, CAT5e, CAT6, CAT6A, CAT7, CAT8	Yes	No
CAT3, CAT5e, CAT6, CAT6A	Yes	Yes
Approved by cable manufacturers installed link warranty programs	Yes	No
Network Compliance Assurance up to	40GigE	10GigE
Modular Plug Terminated Link (MPTL)	Yes	Yes**
TDR (Distance to fault, open/short/split, shield, Return Loss Locator, NEXT Locator)	Yes	Yes
SNR based multi-gigabit link speed testing up to 10GigE	Yes	Yes
PoE qualification with RealPower load for 802.3 af/at/bt, UPoE, PoE Pass-Thru	Yes	Yes
Save infrastructure test results for .pdf reporting	Yes	Yes
Save Multi-gigabit, PoE, Network Connectivity results for .pdf reporting	Yes	Yes
Wireless Network Connectivity SSID Discovery, Channel, Signal Strength/Roaming, Traceroute, Reachability, TCP Connect, Ping, etc.	Yes	Yes
Wireless Network Connectivity SSID Discovery, Channel, Signal Strength/ Roaming, Traceroute, Reachability, TCP Connect, Ping, etc.	Yes	Yes
Loopback Optical Loss for Singlemode and Multimode	Yes	Yes
Tier-1 Fiber Optic Certification for Singlemode and Multimode	Yes	No
Hybrid Powered Fiber Loop Resistance	Yes	No
Hybrid Powered Fiber DC Voltage	Yes	Yes
OTDR	Yes	Yes

# Adapters & Accessories

PART NUMBER	DESCRIPTION	UOM
AD-SM-K01E	SM FIBER TEST KIT (ENHANCED) FOR TESTPRO	SET
AD-MM-K01E	MM FIBER TEST KIT (ENHANCED) FOR TESTPRO	SET
MM-ST-K01	TESTPRO ST CONNECTOR INTERFACE KIT-MM	SET
MM-SC-K01	TESTPRO SC CONNECTOR INTERFACE KIT-MM	SET
MM-FC-K01	TESTPRO FC CONNECTOR INTERFACE KIT -MM	SET
SM-ST-K01	TESTPRO ST CONNECTOR INTERFACE KIT-SM	SET
SM-SC-K01	TESTPRO SC CONNECTOR INTERFACE KIT -SM	SET
SM-FC-K01	TESTPRO FC CONNECTOR INTERFACE KIT-SM	SET
MM-LC-CORD-K01	LC REFERENCE CORD KIT FOR TESTPRO -MM	SET
SM-LC-CORD-K01	LC REFERENCE CORD KIT FOR TESTPRO -SM	SET
PROBE-FIBER-INSP	FIBER INSPECTION PROBE	EA
CABLE ASSY-HYBRID2	COPPER JUMPER FOR HYBRID POWERED FIBER	SET
AD-OTDR-SM	SINGLEMODE OTDR ADAPTER	EA
AD-OTDR-MM	MULTIMODE OTDR ADAPTER	EA
SM-LC-LC-CORD-150M	LC-LC LAUNCH CORD, 150M SINGLEMODE	EA
SM-SC-LC-CORD-150M	SC-LC LAUNCH CORD, 150M SINGLEMODE	EA
SM-SC-SC-CORD-150M	SC-SC LAUNCH CORD, 150M SINGLEMODE	EA
MM-LC-LC-CORD-150M	LC-LC LAUNCH CORD, 150M MULTIMODE	EA
MM-SC-LC-CORD-150M	SC-LC LAUNCH CORD, 150M MULTIMODE	EA
MM-SC-SC-CORD-150M	SC-SC LAUNCH CORD, 150M MULTIMODE	EA
AD-NET-CABLE	MULTIGIG AND POE ADAPTER PAIR	SET

# Adapters & Accessories

PART NUMBER	DESCRIPTION	UOM
AD-BAREWIRE	BAREWIRE ADAPTER PAIR	SET
AD-CAT8.1-CH	CAT8.1 CHANNEL ADAPTER PAIR	SET
AD-CAT8.1-PLE	CAT8.1 PERMANENT LINK ADAPTER PAIR, ENH	SET
AD-COAX-KIT	75OHM COAX ADAPTER KIT	SET
AD-M12-D	M12 D-CODED ADAPTER PAIR	SET
AD-M12-X	M12 X-CODED ADAPTER PAIR	SET
AD-5E-PCORD	CAT-5E PATCH-CORD TEST ADAPTER PAIR	SET
AD-6-PCORD	CAT-6 PATCH-CORD TEST ADAPTER PAIR	SET
AD-6A-PCORD	CAT-6A PATCH-CORD TEST ADAPTER PAIR	SET
AD-5E-PCORD-SINGLE	CAT-5E PATCH-CORD TEST ADAPTER SINGLE	EA
AD-6-PCORD-SINGLE	CAT-6 PATCH-CORD TEST ADAPTER SINGLE	EA
AD-6A-PCORD-SINGLE	CAT-6A PATCH-CORD TEST ADAPTER SINGLE	EA
AD-8.2-TERACH	CAT8.2 TERA CHANNEL ADAPTER PAIR	SET
AD-8.2-TERAPL	CAT8.2 TERA PERMANENT LINK ADAPTER PAIR	SET
AD-8.2-GG45CH	CAT8.2 GG45 CHANNEL ADAPTER PAIR	SET
AD-8.2-GG45PL	CAT8.2 Gg45 PERMANENT LINK ADAPTER PAIR	SET
AD-SPE-IEC 63171-1	SINGLE PAIR ETHERNET ADAPTER IEC 63171-1	SET
AD-SPE-IEC 63171-6	SINGLE PAIR ETHERNET ADAPTER IEC 63171-6	SET
ACC-HARD-CASE	HARD CARRY CASE FOR TESTPRO	EA
ACC-SOFT-CASE-SMALL	SOFT CARRY CASE FOR TESTPRO	EA
ACC-POWER-AD	AC POWER ADAPTER FOR TESTPRO	EA

# TestDataPro Results Management

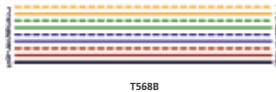
## A-004

TestTime Project : 8/19/2023 52:16PM  
 Profile Operator : 2.9.R3  
 CableType/WPP : Certification :Default  
 Connector : CAT5AU1768% :GenericCAT5A

Pass

Limit Model : TIA-CAT5Channel\_TestProCV100  
 SerialNumber : .Main:4200-0071\_Remote:4200-0072\_2.9.R3  
 DeviceSoftware : Friday, April 24, 2020\_PROBECAT5ACHANNEL  
 CalibrationDate : PROBECAT5ACHANNEL  
 MainAdapter :  
 RemoteAdapter :

Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	78	159.7	328.1
PropDelay(ns)	Pass	45	253.0	555.0
DelaySkew(ns)	Pass	45	15.0	50.0
DCLoop Resistance(Ω)	Pass	12	15.718	25.000
Res.Unbal.pair-pair(Ω)	Info	45-78	2.133	0.720
Res.Unbal.wire-wire(Ω)	Info	12	11.679	0.308



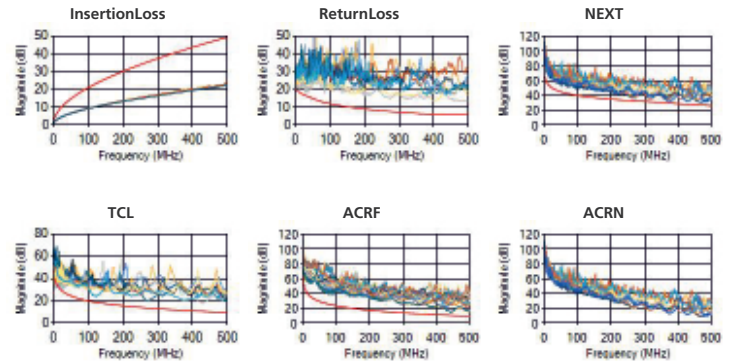
### RFParameters

Parameter	Result	Main				Remote									
		Pair	WorstMargin (dB)	Limit (dB)	WorstValue Freq (MHz)	Pair	WorstMargin (dB)	Limit (dB)	WorstValue Freq (MHz)						
Return Loss	Pass	12	1.7	19.0	8.80	12	17.4	458.00	12	10.75	12	13.1	500.00		
Insertion Loss	Pass	12	1.4	3.1	2.05	45	23.7	500.00	-	-	-	-	-		
NEXT	Pass	36-78	2.2	32.6	266.00	36-78	31.4	480.00	36-78	1.8	29.6	373.00	12-36	30.9	470.00
PSNEXT	Pass	36	4.0	29.7	267.00	36	29.3	480.00	36	2.4	26.8	367.00	36	28.5	475.00
ACRF	Pass	12-45	3.7	10.3	444.00	12-45	14.0	444.00	45-12	4.0	10.3	444.00	45-12	14.3	444.00
PSACRF	Pass	12	6.5	60.3	1.00	45	14.0	444.00	12	6.7	7.3	444.00	12	14.0	444.00
TCL	Info	12	-9.0	40.0	2.05	78	20.1	268.00	12	-9.2	40.0	2.20	12	17.6	433.00
TCTL	Info	45	-3.9	30.0	1.00	45	26.1	1.00	45	-0.5	30.0	1.00	45	22.6	29.95

### Insertion Loss

### Return Loss

### NEXT



TestDataPro supports both PC and cloud-based options, and is included with all models of TestPro.

Printed test reports for copper and fiber optic include a list of compliant network support based on the performance of the cable tested.

Printed reports are provided for Copper & Fiber certification, Wired/Wireless Network Discovery Autotest as well as the combined Multi-Gigabit/PoE Autotest.

The Network Discovery and Multi-Gigabit/PoE Autotests provide a path to a new service offering you can provide to increase your revenue potential.

## TESTDATAPRO PC BASED

- Allows you to define projects and categorize test results into logical groupings
- Provides multiple reporting formats and options such as a single summary report or full reporting
- Allows software-based re-certification if original test was done with wrong test standard selected

## TESTDATAPRO CLOUD

- Allows immediate offload of test results to database via wired or wireless connection
- Allows visual of pass/fail results
- Allows printing of single .pdf reports



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**Catalogue Version : Ref: ST/Testprocv100/25-26**



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