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**TEMPO 620K-G**

# TEMPO 620K-G Security and Alarm Tone and Probe Kit

Instruction Manual

## 1. INTRODUCTION

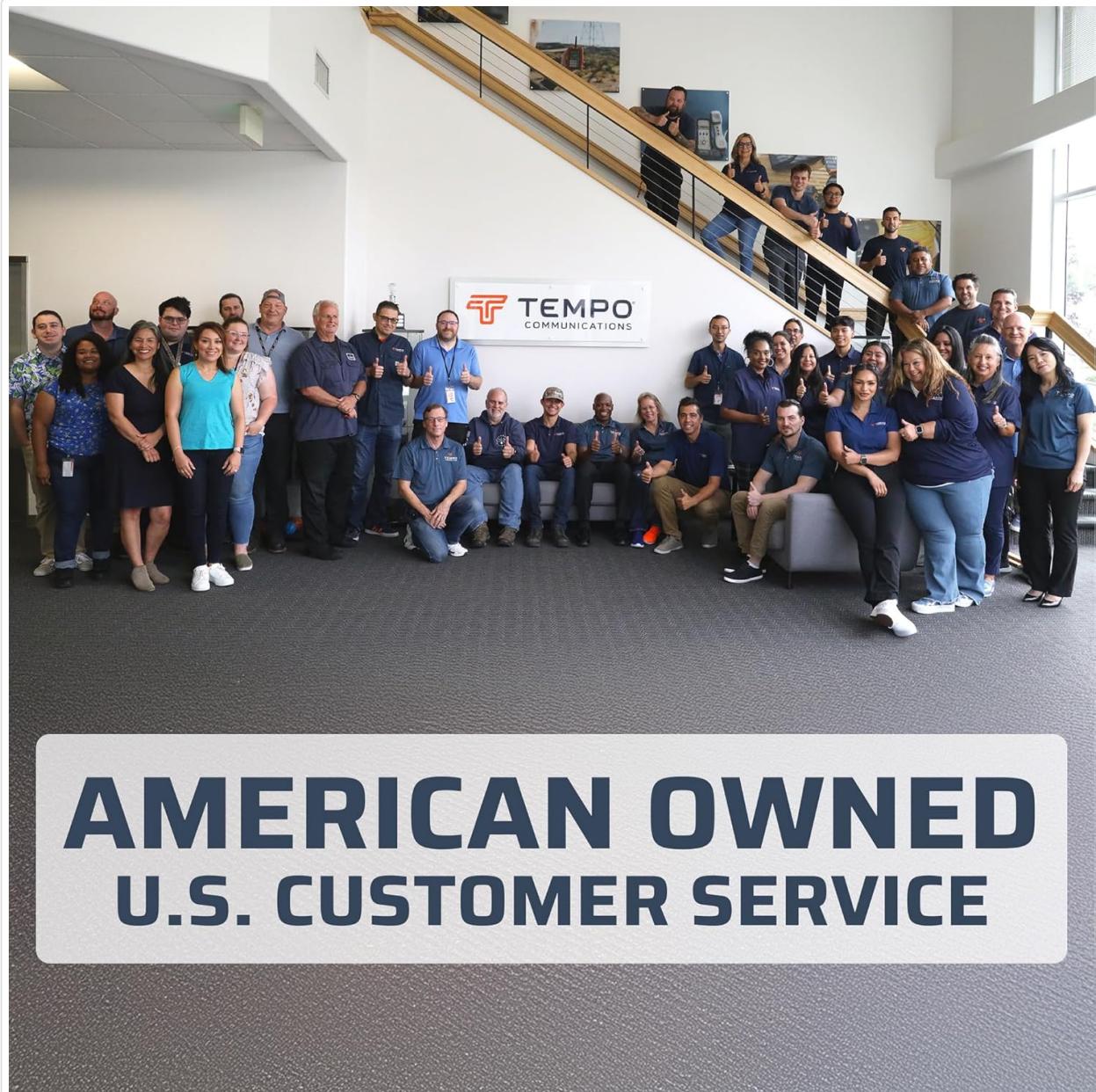
The TEMPO 620K-G Security and Alarm Tone and Probe Kit is a professional tool designed for the security and alarm industry. This kit facilitates reliable testing and identification of wires, cables, and intermittent failures within alarm circuits. It is engineered for efficiency, allowing for convenient one-person operation.

## 2. PRODUCT OVERVIEW AND COMPONENTS

The 620K-G kit includes a tone generator, a tone probe, and a carrying case, providing a comprehensive solution for circuit testing and wire tracing.



**Figure 1:** The TEMPO 620K-G kit, showing the tone generator, tone probe, and carrying case.



**Figure 2:** Detailed view of the kit components, including the tone generator, tone probe, and carrying case, with key features highlighted.

## 2.1. What's in the Box

- TEMPO 620 Tone Generator / Continuity Tester
- TEMPO 200EP Tone Probe
- Carrying Case
- 1 x 9V Battery (pre-installed or included separately)

## 3. KEY FEATURES

- **Reliable Security Testing:** Specifically designed for security and alarm applications, ensuring accurate testing and identification of issues in alarm circuits.
- **One-Person Operation:** Features a high-volume audible indicator on the probe, enabling efficient testing and troubleshooting by a single technician.
- **Intermittent Fault Finding:** A special latching feature assists in locating intermittent circuit faults, streamlining the identification and resolution of complex issues.

- **Secure and Convenient:** The tone generator includes a magnetic backing for easy attachment to metal surfaces, such as alarm panel doors, ensuring stable placement during use.
- **Connection Versatility:** Supports connections to either Normally Open (N.O.) or Normally Closed (N.C.) circuits.
- **Loop Pair Verification:** Allows for verification of loop pairs.
- **Distinct Audible Tone:** Provides a clear audible tone when an alarm condition occurs, aiding in quick diagnosis.
- **Switch Function Confirmation:** Quickly confirms the proper function of switches.

## 4. SETUP

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### 4.1. Battery Installation

The TEMPO 620K-G requires one 9V battery for operation, which is included with the kit. To install or replace the battery:

1. Locate the battery compartment on the back of the tone generator.
2. Open the battery compartment cover.
3. Connect a new 9V battery to the battery clip, observing correct polarity.
4. Place the battery into the compartment and close the cover securely.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Tone Generation and Wire Tracing

To trace wires or cables using the tone generator and probe:

1. Connect the tone generator to the wire or cable to be traced. Use the alligator clips for bare wires or the RJ11/RJ45 connector for modular jacks.
2. Set the tone generator's slide switch to the 'TONE' position.
3. Activate the tone probe and sweep it along the suspected path of the wire. The probe will emit an audible tone that increases in volume as it approaches the toned wire.

# POWERFUL TONE PROBE HELPS IDENTIFY WIRES FROM A BUNDLE



Figure 3: The tone probe in use, helping to identify specific wires within a larger bundle.

## 5.2. Continuity and Discontinuity Testing

The tone generator can also be used to test for continuity or discontinuity in circuits:

1. Connect the tone generator across the two points of the circuit you wish to test.
2. Set the slide switch to 'N.O.' (Normally Open) or 'N.C.' (Normally Closed) depending on the circuit type.
3. If the circuit is continuous (closed for N.O., open for N.C.), the tone generator will emit a distinct audible tone.

## 5.3. Locating Intermittent Faults (Latching Feature)

The latching feature is crucial for identifying intermittent faults:

1. Connect the tone generator to the circuit.
2. Set the slide switch to 'N.O. LATCH' or 'N.C. LATCH'.
3. The device will monitor the circuit. If an intermittent fault occurs (e.g., a momentary open in a normally closed circuit), the tone generator will latch onto that condition and continue to emit a tone, even if the fault clears.

4. Press the 'RESET' button to clear the latched condition.

## 6 POSITION SLIDE SWITCH

LATCHING FEATURES HELP TO FIND  
INTERMITTENT CIRCUIT FAULTS



**Figure 4:** The 6-position slide switch on the tone generator, used to select between OFF, TONE, N.O., N.O. LATCH, N.C., and N.C. LATCH modes.

### 5.4. Loop Pair Verification

The 620K-G supports loop pair verification to confirm circuit integrity:

1. Connect the tone generator to one end of the loop pair.
2. Use the appropriate setting (N.O. or N.C.) to test the continuity of the loop.
3. A distinct tone indicates a complete and functional loop.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your TEMPO 620K-G kit, follow these maintenance guidelines:

- **Cleaning:** Wipe the devices with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the kit in its carrying case in a cool, dry place when not in use. Remove batteries if the

device will not be used for an extended period to prevent leakage.

- **Battery Replacement:** Replace the 9V battery when the audible tone becomes weak or the device fails to power on.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No tone from probe	Tone generator not powered on or battery low. Incorrect setting on tone generator. No connection to wire.	Ensure tone generator is ON and set to 'TONE'. Replace 9V battery. Verify secure connection to the wire.
Weak or distorted tone	Low battery in tone generator or probe. Interference from other electrical sources.	Replace 9V battery in both units. Move away from strong electrical fields.
Latching feature not working	Incorrect mode selected. Fault not occurring or too brief.	Ensure 'N.O. LATCH' or 'N.C. LATCH' is selected. Verify the fault condition.
Inaccurate continuity test	Poor connection. Incorrect N.O./N.C. setting.	Ensure solid connection points. Select the correct N.O. or N.C. mode for the circuit type.

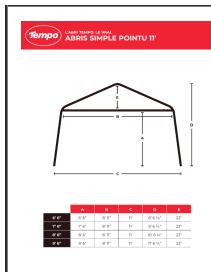
## 8. SPECIFICATIONS

- **Model Number:** 620K-G
- **Power Source:** 9V Battery (included)
- **Item Weight:** Approximately 16 ounces (0.45 kg)
- **Package Dimensions:** 12.24 x 5.39 x 2.72 inches (31.1 x 13.7 x 6.9 cm)
- **Manufacturer:** Tempo Communications
- **Date First Available:** August 27, 2020

## 9. WARRANTY AND SUPPORT

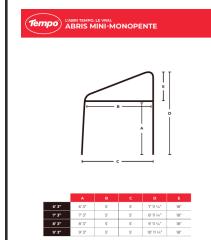
Tempo Communications products are designed for durability and reliability. For specific warranty information or technical support, please refer to the official Tempo Communications website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For further assistance, please visit the [Tempo Communications Store on Amazon](#).



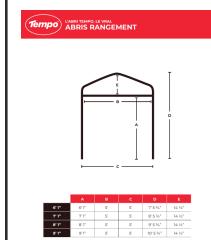
### [Tempo 11' Simple Gable Roof Shelter Specifications](#)

Detailed specifications and dimensions for the Tempo 11' Simple Gable Roof Shelter, including height, width, and roof pitch measurements for various models.



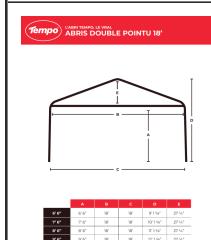
### [Tempo Mini Single-Slope Shelter Dimensions and Specifications](#)

Comprehensive dimensions and specifications for Tempo Mini Single-Slope shelters, detailing measurements A, B, C, D, and E for various sizes. Essential information for selecting the right shelter.



### [Tempo Abris Rangement: Dimensions et Spécifications Techniques](#)

Informations détaillées sur les dimensions des abris de rangement Tempo, incluant hauteur, largeur et longueur pour divers modèles. Idéal pour le stockage extérieur.



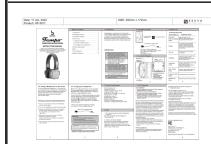
### [Dimensions et Spécifications de l'Abri Double Pointu Tempo 18'](#)

Detailed dimensions and specifications for the Tempo 18' double gable shed, including measurements for height, width, and length.



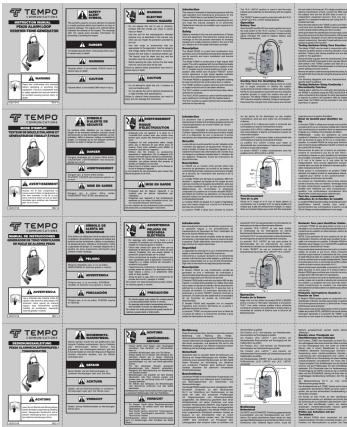
### [Roadmaps That Matter: A Guide to Strategic Planning and Execution](#)

Learn how to create actionable roadmaps that align strategy with execution. This guide covers common challenges, best practices, and tools for effective roadmapping, from balancing priorities to measuring success.



### [Tempo HP-3017 Wireless Headphones Instruction Manual](#)

Get detailed instructions for your Tempo HP-3017 Wireless Headphones. This manual covers pairing, charging, specifications, safety, and troubleshooting for your Bluetooth audio experience.



## [pdf] User Manual

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## ELEVATE YOUR GAME WITH TEMPO!

Tempo Trivia was such a big hit during the virtual SCT+BBE Cable-Tec Expo® that we decided to extend the fun!

We added 5 more qualifying rounds with a final round on January 8, 2021. Qualifying round prizes include: Tempo multimeters and PicoBrite hand tools to insulated coffee mugs, tools and hats! For the final round, we'll be giving away an Amazon gift card, Tempo Tone & Probe, hand tools and more!

There still time to play and win. The last qualifying round will be on Friday, December 18 at 9:30am PST. The final round takes place on January 8, 2021, at 9:30am PST.

To play, simply download the Kahoot! Trivia app onto your smart phone or tablet and also use your computer or laptop to join the live stream on GoToMeeting at <https://us02web.zoom.us/j/833273>. Then, sit back, test your industry knowledge and have fun!



### HOW TO PLAY:

1. Enter the GoToMeeting Room
2. Go to Kahoot.it or download the Kahoot! app available for iOS and Android
3. Read the questions in the meeting room and answer on your other device or browser tab

## DECEMBER TOOL OF THE MONTH: TEMPO KNOWS WIRE TRACING!

The world of data communications encompasses the basic, physical layer, structured wiring communication system. LAN distributed throughout the industry, structured wiring, along with numerous application-specific installations and cable types. That's why we've expanded by Tempo's product portfolio of wire tracing instruments—including the flagship family of tones and probes that make identifying the right wires possible.

### AT8KL LAN Toner Kit

Designed for the network installation and maintenance professional, the LAN Toner sends tone and binary HUB, Switch Port, and PC activity lights for fast identification. This kit can be used with any network system including Datacom, telecom, security, alarm, audio and CATV.

- AT8KL LAN Toner
- 200EP-G Tone Probe
- Rugged, woven nylon carrying case

[LEARN MORE](#)

### 402K Cable Tone Test Kit

Designed for the professional technician who needs to identify mis-tagged cable drops. Designed specifically for the CATV industry, the easy-to-use, fast, and accurate 402K sends tone through the coaxial system using a probe and receiver. The transmitter is equipped with female F-type connectors and provides both split-tens, taps, and directional couplers. The receiver is

- 402K Tone Generator
- 402K Tone Probe receiver
- Male F-to-F connector
- Adapter cable
- Rugged, woven nylon carrying case

[LEARN MORE](#)

## [pdf]

HE S BACK! WELCOME TO THE TIMES Tempo Com If you haven't done so yet follow us on Facebook @TempoComms and join the Insider Deals Giveaways Group! We have more than 19 300 Followers about 3 700 Group members Times Q42020 tempocom 2020 12 |||

Tempo Communications Quarterly Newsletter Q4 2020 TIMES GET SOCIAL WITH TEMPO If you haven't done so ... after cable Male F-to-F connector Rugged, woven nylon adapter cable carrying case LEARN MORE **620K-G** Security Alarm Kit The **620K-G** Tone and Probe Tester Kit is designed for security and alarm...



### 620K-G Security & Alarm Kit

The 620K-G Tone and Probe Tester Kit is designed for security and alarm industry to identify intermittent faults and connecting the status of switches at remote locations.

The 620K-G Kit includes:

- 620 Continuity/Discontinuity tester
- 200EP-G Tone Probe
- Rugged, woven nylon carrying case

[LEARN MORE](#)



What's that noise in the north? Is it Santa or his merry reindeer? Heck no! It's our jolly old pal Tempo Bob! He's coming back for a very special Tempo Bob Holiday Special. Be sure to subscribe to our YouTube channel so you'll be the first to know when it's available. This will surely be a classic up there with the likes of "Elf."

\*Disclaimer: Tempo Bob is a cartoon character and is not real.

Obligatory disclaimer: Tempo recommends that you refrain from consuming any fluids while watching for fear of nasal discharge or eating any snacks to avoid choking as you laugh uncontrollably. Further, Tempo is not responsible for resulting stains on your clothing.



Tempo continues to distinguish itself as the industry leader in comprehensive and reliable fiber solutions.

[LEARN MORE](#)

In November 2020, Tempo launched its Drop Fiber Repair Kit (DFR100), which conveniently and cost-effectively allows the fiber technician to repair and protect fiber optic cables. The IP68-rated DFR100 is a drop-in solution for fiber optic cables that are too long or damaged to be spliced or require a case that can be buried or mounted for future rework. The DFR100 joins Tempo's comprehensive fiber solutions which are designed for technicians who demand performance and efficiency.



Tempo's new DFR100 supports common fiber sizes of 8.3mm, 5.4mm, and 5.1mm rectangular cables and 5.1mm round cables with provided individual testing jackets. The plastic casing can be easily assembled with common tools and the IP68 rating ensures that the enclosed cables will be safe from dirt, moisture, and dust.

"This Drop Fiber Repair Kit is really a game-changer for the fiber technician," said Keith Ford, fiber instruments product manager with Tempo Communications. "It can handle up to 14 splices and ensures they are safely protected either underground, on the side of a building, or pole mounted. After the initial repair, the DFR100 can be easily disassembled and stored in the DFR100 to address future issues and be confident that the enclosed cables will remain protected afterwards."

The DFR100 reaffirms Tempo's commitment to developing relevant fiber solutions that are easy to use and simplify the technician's job, enabling them to provide exceptional service and exceed customer expectations.

Tempo's comprehensive fiber solutions are designed for technicians who demand performance and efficiency. From Fusion Splicers and Cleavers to OMIs, Stabilized Light Sources, Visual Fault Locators, Fiber Testers, and more, Tempo has the right fiber optic tools and fiber technician needs to get the job with precision and confidence. [Click here](#) for more information.

Be on the lookout for more new fiber products from Tempo, set to launch soon! Remember, Tempo Insiders always get a sneak peak before the official launch so become one today at [www.facebook.com/groups/tempocominsiders/](http://www.facebook.com/groups/tempocominsiders/)!



Renewed. Ready. Innovation Forward.

September 24, 2020

Product Rebrand Update: Products now shipping out of Vista, CA

All Greenlee Communications products have now been successfully rebranded to Tempo Communications. If you have any questions, please contact us at 800-645-2155 or email [customerservice@tempocom.com](mailto:customerservice@tempocom.com). Please update your page lists and tool equipment offerings to now carry the Tempo and Paladin brands.

Tempo Branded:

- 77HPG (clam & box)
- 77HPG-6A (clam & box)
- 77GX
- 77GX + 200EPG (200EPG + 77GX + 702K soft case)
- 77M-6
- 77M-6A
- 801K (200EPG + 77HPG/6A)
- 801K/50 (200EPG/50 + 77HPG/6A)
- 801K-6 (200EPG/50 + 77HPG/6A)
- 811K (200EPG + 77GX)
- 811K/64/Box (200XP + 77GX)
- 811K/50 (200XP/50 + 77GX)
- 701K-O (200EPG + 77HPG/6A + 52047310 + 52047312) (box & clam)
- 701K-O (200EPG + 77HPG)
- 711K (77GX + 200EPG)
- 711K-GB (77GX + 200EPG)
- 620K-G (620 + 200EPG)
- 620KCE-G (620 + 200EPG)
- PE620-G
- 24B
- 24BK (24B + 200EPG)
- 200FP

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Clemente Barraza Rebrand Status 9 24 20 1 tempocom 2020 09 Product Update Products now shipping

Tempo Com Communications Coming Soon 701KG 6A clam box available 4 15 77HPG w Holster Paladin

Branded Hand Tools PA9675 ADAPTER CATVF FEMALE TO PA1176 PRO GRIP CRIMPER TERMINAL

ELEC 45300 GUN CABLE TY HEAVY DUTY PA70063 COMPRESSION UNIV ADJ PA70031 COAXIAL

TOOL TV CUT STRIP CRIMP out of Vista CA All Greenlee products have been successfully rebranded to

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September 24, 2020 Product Rebrand Update: Products now shipping out of Vista, CA

All Greenlee Comm ... 0 52047312 box clam 701K-O 200EPG 77HPG 711K 77GX

200EPG 711K-GB 77GX 200EPG **620K-G** 620 200EPG 620KCE-G 620 200EPG

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## [pdf] User Manual Borchure

## APPLICATION NOTE TRACING NETWORK CABLES

To trace "Ethereal" as other stricken high frequency twisted pair cables takes a route of tricks, particularly with equipment connected at the end (a gnd or patch or PCI, etc.) if you can't trace the tone to a "pair" then the signal will be "lost" to detect for two reasons:

1. The twisted pair is broken and with multiple twists per inch might difficult to detect any residual electric field or magnetic field around the pair.
2. The henkel pair is twisted into a high frequency transducer which appears to be a short to the audio ground plane. This is the reason it is difficult to detect as you approach this transducer.

Overcome both these snags by "splitting" the tone across two more pairs, perhaps use 4 and 4 or 8 wires of the two normally used blue and brown pairing which are in different pairs and correctly not connected at the end and if they are, then they are in different transducers.



**A Note on Power over Ethernet**  
Standards compliant PoE IEEE 802.3af, IEEE 802.3at or IEEE 802.3bt, Type 1, Type 2 or Types 3 & 4 Power over Ethernet is “half” to be connected to the power source only applying a tiny fraction of power unless the start-up protocol is followed. This is to prevent damage to the power source and the connected equipment when both pairs of the cable (one pair for data generation) are connected to a load at 100V.  
Please note that some equipment operates with “non-standard” Power over Ethernet. This can pose additional risk to other equipment that may be accidentally plugged in or even to the power itself. Therefore, beware any such “frenzy” that may be caused by the equipment. It is always better to use a standard compliant power source. You can only use the supplied adapter”. Maximum voltage must always be kept at 100V DC and maximum current suitable for the cable gauge. Exceeding these can damage equipment or pose a fire risk.

TEMPO  
COMMUNICATIONS

[www.TempoCom.com](http://www.TempoCom.com)

Manufacturer BrochureTempo 620K G Tone and Probe Tester 2 Piece Kit 1 620 200EP GUpload 3A

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ManufacturerBrochure BrochureUser ManualTempo GTempo NC 100 NETcat Micro Wiring for Twisted

Pair STP UTP Coaxial CablesUpload ManufacturerBrochure3A NC100 User Manualcdn 10059 Manual |||

||| APPLICATION NOTE TRACING NETWORK CABLES To trace Ethernet or other structured high frequency twisted pair cables takes a couple of tricks, particularly with equipment connected at the far end e.g. switch or PC . Firstly, if you connect the

## APPLICATION NOTE TRACING NETWORK CABLES To trace Ethernet or other

structured high frequency twisted pair cables takes a couple of tricks, particularly with equipment connected at the far end e.g. switch or PC . Firstly, if you connect the tracing tone to a pair then the signal will be weak t...

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