

Datacom Products



Installation, Maintenance, Testing and Measurement



*offering datacom products
from Tempo*

Datacom Products



Installation, Maintenance, Testing and Measurement

WELCOME TO TEMPO

Tempo is a new force in the installation and test and measurement of communications cabling networks. We are a collection of some of the strongest, most respected companies in the industry, each with a history rooted in success. Names like Progressive, Greenlee Data•Signal•Voice, RIFOCS and others, with expertise in designing, manufacturing and marketing some of the industry's most recognized installation and test equipment for the datacom market.

DESIGNED FOR SUCCESS START TO FINISH

Tempo offers a complete line of innovative, rugged and practical datacom equipment to ensure a job done right. But we don't just sell products. We concept, design, engineer, manufacture and road-test the products that bear our name. And all our products are backed by service and support from a hands-on technical staff, many of whom are former industry professionals themselves. We take pride in the tools we make, because we have ownership in how they're made. It's the same pride we hope you'll feel when one of our products hangs from your belt — the pride in knowing you're part of a commitment to be the best.



K N O W L E D G E . S O L U T I O N S . S U C C E S S .

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Copper and Network Testers

PE900 Series Telephone Test Sets

| MODEL NO. | PE930 | PE940 | PE945 | PE950 | PE961 |
|-------------------------|-------|-------|-------|-------|-------|
| Data Safe Monitor | ● | ● | ● | ● | ● |
| Adjustable Ringer | ● | ● | ● | ● | ● |
| Waterproof Design | ● | ● | ● | ● | ● |
| Loud Speaker Listening | | ● | ● | ● | ● |
| Two-way Hands Free | | | ● | | ● |
| DigAlert™ Data Lock-out | | | | ● | ● |
| ADSL Compatible | | | | | ● |



PE930



PE940



PE945



PE950



PE961

PE900 Series Telephone Test Sets



PE961



Features:

- Waterproof tested to an IEC IP67 rating, these test sets are so impervious to water they can actually withstand submersion
- The PE950 and PE961 feature our DigAlert over-voltage alarm and lock-out function to eliminate the danger of damaging or knocking out digital service lines
- The new PE961 provides full ADSL compatibility

Specifications:

- Ten-number speed dial memory (32 digits each)
- Last number redial
- Precise hook flash
- Microphone mute
- Audible and visual mode indicators
- Polarity test in any mode
- Unique quick-release belt clip
- Premium cordset with bed-of-nails and piercing pin clips

| Description | Cat (UPC) No. | Description | Cat (UPC) No. |
|----------------------------------|---------------|---|---------------|
| Test Set with Adjustable Ringer | PE930 (60487) | Test Set with Amplified Speaker and DigAlert | PE950 (60490) |
| Test Set with Amplified Speaker | PE940 (60488) | Test Set with Two-way Hands Free and DigAlert | PE961 (60511) |
| Test Set with Two-way Hands Free | PE945 (60489) | Ground Start Cordset | PE901 (60492) |
| | | Replacement Cordset | PE902 (60493) |



PE810

Tele-Mate Communication Test Set

Application:

Designed for communications wiring installation and repair to quickly verify the quality of a new installation.

Features:

- Affordable
- Headset for hands-free operation
- Rugged design for demanding use
- Compact design and durable belt clip make it easy to carry

Specifications:

- Adjustable volume
- Built-in ringer
- Tone/Pulse dialing
- Last number redial
- Line polarity indication
- Microphone mute
- Data safe monitor mode
- Replaceable premium cordset with telco-style clips

| Description | Cat (UPC) No. |
|----------------------------------|---------------|
| Tele-Mate Communication Test Set | PE810 (60298) |



PE290-00

PE290-01

PE290-02

PE290-04

P-Phone Adapters

Application:

Enables analog telephone test sets to be used on POTS or Meridian Digital Centrex lines with the use of a simple slide switch.

Specifications:

- Connects directly to most analog test sets
- PE290-01, PE290-02 and PE290-04 feature angled bed-of-nails clips and piercing spike

| Description | Cat (UPC) No. |
|--|------------------|
| Hard-wired P-Phone Adapter | PE290-00 (60494) |
| Hard-wired P-Phone Adapter with 5' OSP Cordset | PE290-01 (60495) |
| Hard-wired P-Phone Adapter with 5' Combi-cord | PE290-02 (60515) |
| Clip-to P-Phone Adapter with 5' OSP Cordset | PE290-04 (60496) |

Harrier ISDN Test Set

Application:

Use as an ISDN telephone or perform self-call or end-to-end B channel Bit Error Rate tests and D channel packet access tests.

Features:

- Keypad and liquid crystal display are positioned to face the user
- Control keys are placed in the handle for easy access
- Ergonomically designed, the PE310 fits comfortably in the hand and rests easily on the shoulder
- Highly water resistant

Specifications:

- Backlit LCD shows test menus, call setup, call progress, layer 1, 2 and 3 error messages, ISDN call clear cause codes and test information
- Rechargeable nickel-metal-hydride (NiMH) battery allows 1 to 2 hours of operation
- AC adapter recharges the battery while in use
- Replacing the NiMH battery with a standard 9V battery will allow 6 to 8 hours of continued use

| Description | Cat (UPC) No. |
|------------------------------|---------------|
| Harrier ISDN Test Set w/POTS | PE310 (60499) |



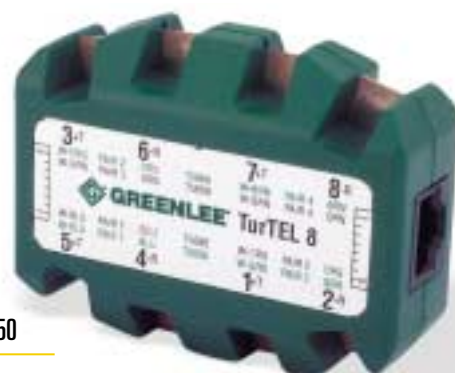
PE310



TurTEL Modular Adapters/Polarity Tester



46040



46050

Application:

Use with tone generators, test sets and other test devices to troubleshoot and isolate problems with telephone circuits.

Features:

- Two jacks allow in-line testing without service interruption
- The TurTEL 6 has two six-position, six-wire jacks
- The TurTEL 8 has two eight-position, eight-wire jacks
- Simple, push button operation to check polarity and power
- Reduced chance of shorting adjacent alligator clips due to unique shape
- Test contacts are perforated to provide sure grip for alligator clips or use of probes

Specifications:

- The TurTEL 6 has an internal circuit to allow testing of polarity for either of two lines (pairs 4 to 5 or 3 to 6) — circuit allows verification of power and phone number assignments
- Patch cord included
- Heavy-duty stainless steel belt clip

| Description | Cat (UPC) No. |
|--|---------------|
| TurTEL 6 Modular Adapter/Polarity Tester | 46040 |
| TurTEL 8 Modular Adapter | 46050 |

T-Bug® Digital Signal Identifier



134A

Application:

Used to detect digital signals on twisted pair cables, identify and isolate digital pairs for special handling and help technicians avoid accidentally putting pairs out of service.

Features:

- Operation is non-invasive and does not involve metallic contact so there's no risk of service interruption
- Simple to use — just place the probe between the pairs in question

- Differential amplifier saves time by allowing the technician to determine whether the signal is truly present or is an induced signal from adjacent pairs
- False readings due to noise are virtually eliminated
- Continuous self test ensures that the unit is functioning properly

Specifications:

- Emits both visible and audible indication when digital signals are present

| Description | Cat (UPC) No. |
|---------------------------------|---------------|
| T-Bug Digital Signal Identifier | 134A (60764) |

Voice Tagger Plus



1185-5011

Application:

Uses voice response and tone generator technology to identify and tag twisted pair, coax cable, electrical wires and security/alarm wires.

Features:

- Single setup for easy operation
- Test leads clearly marked
- Lightweight yet rugged construction is both portable and durable

Specifications:

- Nine test leads
- Traces and identifies 17 separate pairs/conductors
- Requires two units for a single setup or two simple setups for one unit
- Voice response and tone output
- Toning and tagging up to 50,000'

| Description | Cat (UPC) No. |
|-------------------|-------------------|
| Voice Tagger Plus | 1185-5011 (60519) |

Coaxial Cable Tester



45055

Application:

Provides quick verification of opens or shorts in either the conductor or the shield of coax cable.

Features:

- Simple one-button operation provides pass/fail indication
- Remote terminator allows testing of cables before or after installation

Specifications:

- Clear red/green LED indication of short or open conditions
- Standard BNC- and F-type female connectors
- Battery operated (9V included)

| Description | Cat (UPC) No. |
|----------------------|---------------|
| Coaxial Cable Tester | 45055 |

Sure Signal™

Application:

Designed for cable installers and communications technicians for testing four-pair data/voice cable links terminated with standard, modular eight-position RJ45-style jacks.

Features:

- Simplest tester available for identifying common wiring faults such as shorts, opens and miswires
- Diagnosis can be completed at one end
- Sequentially lighting LEDs corresponding to each wire allow easier diagnosis of miswires than testers that check pairs
- Can test more wiring configurations than other testers due to sequential wiremap testing

- Shielded test ports allow extra versatility to test shielded and screened twisted pair
- Optional patch cords allow the Sure Signal to be used as a coax tester, eliminating the need for a second tester

Specifications:

- Optional remote unit can be used to check patch cords for wiring errors
- Optional Accessory Kit includes two RJ45 patch cords, two RJ45 to BNC adapter cords, two RJ45 to RJ11 snap-in adapters and one BNC plug to BNC plug adapter
- Battery operated (9V not included)



46060

| Description | Cat (UPC) No. |
|---|---------------|
| Sure Signal Line Verifier and Patch Cord Tester | 46060 |
| Sure Signal Remote | 46070 |
| Carrying Case | 45276 |
| Sure Signal Accessory Kit | 46065 |

Modular Cable Tester/Tone Generator

Application:

Quickly identifies opens, shorts, reversals and transposed pairs.

Features:

- Economical tester includes all the basic functions
- Connecting the receiver unit automatically activates the test process
- Sequencing red and green LEDs provide fast, accurate and simple-to-understand results
- Alerts the technician if connected to an active circuit without harming the unit

Specifications:

- Connect any eight-position modular plug to the appropriate jack on the transmitter and a sweeping tone signal is applied to all pairs
- At the far end of the cable, use any Tempo inductive amplifier (probe) to locate the corresponding plug or jack
- Battery operated (9V not included)



468

| Description | Cat (UPC) No. |
|---|---------------|
| Modular Cable Tester/Tone Generator | 468 (08661) |
| Carrying Case for the Modular Cable Tester/Tone Generator | 468C (60382) |



45280

PairMapper™ Twisted Pair Fault Tester

Application:

Use to identify various wiring faults found in 10BASE-T and other four-pair, unshielded twisted pair (UTP) cables per TIA/EIA 568A and 568B.

Features:

- Tests and identifies up to four cables with unique Remote Terminators
- Easy-to-use, compact

Specifications:

- Tests four-pair UTP cables including 100 BASE T
- Checks UTP cable for shorts, opens, crossed pairs, reversed pairs and split pairs
- Battery operated (9V not included)

| Description | Cat (UPC) No. |
|--|---------------|
| PairMapper Twisted Pair Fault Tester with Remote 1 | 45280 |
| Remote Terminators 2, 3, 4 | 45275 |
| Carrying Case | 45276 |

PROSCANNER™ Network Cable Test Kit

Application:

Designed to check cabling integrity and confirm length, wiring configuration and the location of cable faults.

Features:

- Affordable
- Pocket-sized
- Uses TDR technology to ensure accurate length measurements
- Enables patch cable testing without couplers or external adapters

Specifications:

- Checks wire continuity
- Checks wire configuration (wiremap)
- Pinpoints opens, shorts, crossed and split pairs
- Measures length, including individual pairs to the hub
- Tone feature locates remote cable ends and cables in a bundle
- Matches cables to offices during additions, moves and changes
- Battery operated (9V not included)
- Kit includes the PROSCANNER Network Cable Test Unit and Wiremap Adapter #4 in a convenient carrying case



PE-K01

| Description | Cat (UPC) No. |
|-----------------------------------|----------------|
| PROSCANNER Network Cable Test Kit | PE-K01 (08697) |
| PROSCANNER Master Unit Only | PE-P01 (08699) |
| Carrying Case | PE-C01 (08696) |

Office Identifier Kit

Application:

Identifies cable links from the wiring closet to the office.

Specifications:

- Maximum length 656 ft (200 m)
- Optional cord improves tone signal strength for identifying longer cable runs or tracing wires within walls



PE-K02

| Description | Cat (UPC) No. |
|-------------------------|----------------|
| Office Identifier Kit | PE-K02 (08698) |
| Grounding Cord Assembly | PE-P03 (08701) |



52397

NETcat® LAN Trouble Shooter

Application:

Tests and maintains 10BASE-T and coaxial Ethernet networks consisting of CAT 3, 4 and 5 cable. Tests include WireMap, TDR length, near-end crosstalk (NEXT) and attenuation to 16MHz, signal-to-noise ratio and noise.

Features:

- Diagnoses many common network problems with its combination of cable testing and network monitoring
- Autotest function automatically performs critical cable tests and reports PASS or FAIL, along with cause for any failure

Specifications:

- Detects active Ethernet traffic
- Monitors Ethernet traffic for utilization, collisions, hub link pulse and jabber
- Battery operated (three 9V batteries included)

| Description | Cat (UPC) No. |
|----------------------------|---------------|
| NETcat LAN Trouble Shooter | 52397 |
| Vinyl Carrying Case | 55412 |
| Token Ring Adapter | 52404 |

NETcat Plus LAN Trouble Shooter

Application:

Tests and maintains CAT 3, 4 and 5 Ethernet, 10BASE-T and Token Ring networks. Tests include WireMap, TDR length, near-end crosstalk (NEXT) and attenuation to 20MHz and noise.

Features:

- Diagnoses many common network problems with its combination of cable testing and Ethernet network monitoring
- Autotest function automatically performs critical cable tests and reports PASS or FAIL, along with cause for any failure
- Stores and prints up to 500 autotest reports

Specifications:

- Verifies network moves, adds and changes
- Identifies distance to any cable damage
- Detects active Ethernet traffic
- Monitors Ethernet traffic for utilization, collisions, hub link pulse and jabber
- Datalogs Ethernet traffic up to 30 hours
- Includes batteries, AC/mains adapter, printer cable and system carrying case
- Operates from batteries or AC/mains adapter

| Description | Cat (UPC) No. |
|---------------------------------|---------------|
| NETcat Plus LAN Trouble Shooter | 54801 |
| Token Ring Adapter | 52404 |



54801

LANcat® System 5 and System 6 Network Cable Tester & Talk Set



54713 System 5



Application:

Certifies up to 100MHz Category 5/Class D twisted pair cabling.



54784 System 6



Application:

Certifies up to CAT5 and Enhanced CAT5 twisted pair cabling to the most demanding TIA Category 5e Level IIe requirements.

Specifications:

- System 5 Autotest Suite includes Power Sum NEXT, Attenuation, Power Sum ACR, Length, WireMap, Propagation Delay, Delay Skew and headroom margin
- System 6 Autotest Suite includes Power Sum NEXT, Attenuation, EL-FEXT, Return Loss, Length, WireMap, Propagation Delay and Delay Skew.
- Built-in two-way talk set
- Cable toner for locating cable ends
- Fiberoptic cable testing options
- Save up to 800 autotest reports for upload to a PC using provided Windows-based software
- Operates from AA cells, AC/mains adapter or optional NiMH battery pack
- Includes hard carrying case

| Description | Cat (UPC) No. |
|------------------------------|---------------|
| LANcat System 5 (115V, 60Hz) | 54713 |
| LANcat System 6 (115V, 60Hz) | 54784 |

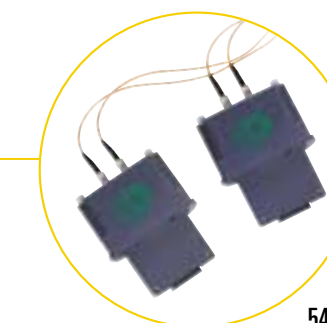
LANcat System Accessories:

| | |
|--|-------|
| NiMH Rechargeable Battery Pack | 54459 |
| Coax Cable Testing Module Option | 54458 |
| 110 Block Connecting Module Option (T568A wired)* | 54655 |
| 110 Block Connecting Module Option (T568B wired)* | 54657 |
| Handset Cover for LANcat System 5 Handsets | 54741 |
| Installers Kit (NiMH battery packs (2), System 5 Handset covers (2)) | 54742 |

*Category 5/Class D testing

FIBERcat® Test & Talk

The FIBERcat Test & Talk converts your LANcat System into a multimode optical loss test set. See page 11 for details.



54869

FIBERcat® Test & Talk Fiber Certification System



54869

Application:

Converts any LANcat® System 5 or System 6 into a precision multimode optical loss test set.

Features:

- Measures dual wavelength, bi-directional multimode 850/1300nm optical loss and link length on two cables simultaneously
- Includes automated link loss budget calculation and automatic PASS/FAIL determination

Specifications:

- Tests two fibers with one autotest
- Measures link length and propagation delay
- Saves up to 800 autotest reports in LANcat handsets for upload to a PC using provided Windows-based software
- Talk over multimode fiber
- Optional ST Fiber Test Kit includes two ST simplex launch cables 62.5/125µ, two ST bulkhead adapters and alcohol pads

| Description | Cat (UPC) No. |
|--|---------------|
| FIBERcat Test & Talk | 54869 |
| LANcat System 6 w/ Test & Talk | 54872 |
| ST Fiber Test Kit | 54720 |
| ST to ST Simplex Patch Cable (62.5/125µ) | 54870 |
| ST to SC Simplex Patch Cable (62.5/125µ) | 54871 |

FIBERcat Optical Loss Test Kit



54653

Handset not included

Application:

Converts any LANcat System 5 or System 6 handset into a precision optical power meter for measuring fiberoptic power or cable loss.

Specifications:

- Measures 850/1300nm optical loss on multimode fiber
- Measures 1310/1550nm optical loss on single-mode fiber
- Includes 850/1300nm LED light source
- Memory for multiple loss references
- Saves up to 400 autotest reports in LANcat handsets for upload to a PC using provided Windows-based software
- Optional ST Fiber Test Kit includes two ST simplex launch cables 62.5/125µ, two ST bulkhead adapters and alcohol pads

| Description | Cat (UPC) No. |
|--|---------------|
| FIBERcat Optical Loss Test Kit | 54653 |
| ST Fiber Test Kit | 54720 |
| ST to ST Simplex Patch Cable (62.5/125µ) | 54870 |
| ST to SC Simplex Patch Cable (62.5/125µ) | 54871 |



Fiber Testers

Quick Reference Charts for Fiber Testing Applications

Fiber Optic Measurements Matrix

| APPLICATION | SINGLE-MODE | PAGE NO. | MULTIMODE (glass fiber) | PAGE NO. |
|---|--|--------------------|---|--------------------|
| Visual Fault Location | T160L / T164L / T165L 263LX + FoPro® | 22, 23 23, 32 | T160L / T164L / T165L 263LX + FoPro | 22, 23 23, 32 |
| Visual Continuity | T160L / T164L / T165L 263LX | 22, 23 23 | T160L / T164L / T165L 263LX | 22, 23 23 |
| Measure Optical Power (to +3dBm) (to +27dBm) | 522B / 555B 522B-HP / 558B | 19, 20 19, 21 | 522B / 555B / 557B | 19, 20, 21 |
| Measure Insertion Loss / Attenuation (Dual Wavelength) | 262A + 555B 10,000 Series / 11,000 Series 523B-13/15 | 20 27, 16 15 | 252B + 555B 5,000 Series / 6,000 Series FiberMeter™ | 25, 20 17 14 |
| Data Storage Capability | 522B / 522B-HP 523B-13/15 | 19 15 | 522B / 522B-HP | 19 |

Special Test Equipment for MT-RJ Interconnections

| APPLICATION | SINGLE-MODE | PAGE NO. | MULTIMODE (glass fiber) | PAGE NO. |
|------------------------|--------------|----------|---|--------------------|
| Visual Fault Location | 263MT | 23 | 263MT | 23 |
| Visual Continuity | 263MT | 23 | 263MT | 23 |
| Measure Optical Power | 556MT | 20 | 556MT | 20 |
| Measure Insertion Loss | 262A + 556MT | 27, 20 | 255MT / 257MT + 556MT 5,000 Series / 6,000 Series 60576MT / 60556MT | 26, 20 17 18 |

Special Test Equipment for Plastic Optical Fiber (POF)

| APPLICATION | MULTIMODE (1 mm POF) | PAGE NO. |
|------------------------|----------------------|----------|
| Visual Fault Location | 253B | 26 |
| Visual Continuity | 253B | 26 |
| Measure Optical Power | 557B | 21 |
| Measure Insertion Loss | 253B + 557B | 21 26 |

NOTE: Typical POF Connectors include Versatile Link, J/V/Z Pins and TOSLINK.
See SOC adapter selection guide on pages 29 and 30.

FiberMeter Fiber Certification System

Application:

A complete system for field testing of premise wiring fiber links on multimode fiber per TIA-568B.3.

Features:

Multimode fiber testing features:

- Accommodates both 50/125 and 62.5/125 multimode fiber
- Test two multimode fibers with one setup
- Automated measurement of optical loss and cable length
- PASS/FAIL certification against industry standards
- Detailed certification reports
- Built-in talk set
- Fixed ST-PC interface (use hybrid reference cables for other connector types)

Specifications:

- Measurement range +3 to -55dBm
- Measure bi-directional loss at 850/1300nm
- Measure link length to 2000 meters
- Saves up to 2000 link reports for upload to a PC using provided Windows-based software
- Operates from AA cells, AC/mains or optional NiMH rechargeable battery packs
- System includes thermoform handset covers, four test jumpers, earphones, AA batteries, AC/mains adapters and a carrying case



| Description | Cat (UPC) No. |
|--|---------------|
| FiberMeter Fiber Certification System 115V | 55430 |

55430

Optical Loss Test Sets

| MODEL NO. | FiberMeter™ | 523B-13/15 | 10,000 & 11,000 Series | 5,000 & 6,000 Series | 60556MT | 253B+557B |
|------------------------------|-------------|--------------|------------------------|----------------------|--------------|--------------|
| PACKAGE | Handheld | Handheld | Handheld | Palm-sized | Palm-sized | Palm-sized |
| SOURCE TYPE | LED | Laser | Laser | LED | LED | LED |
| CALIBRATION WAVELENGTHS (nm) | 350/1300 | 1310/1550 | 1310/1550 | 850/1300 | 850/1300 | 650 |
| MEASUREMENT RANGE | +3 to -5dBm | +3 to -75dBm | +3 to -60dBm | +3 to -60dBm | +3 to -60dBm | +3 to -60dBm |
| MEASUREMENT UNITS | dB, dBm | dB, dBm, W | dB, dBm | dB, dBm | dB, dBm | dB, dBm |
| Storage Capability | ● | ● | | | | |
| Single-mode | | ● | ● | | | |
| Multimode (glass) | ● | | | ● | ● | |
| Multimode (POF) | | | | | | ● |
| Talk Function | ● | | | | | |



55430



523B-13/15



10520K



6052B2K



60556MT



253B+557B

Advanced Single-mode Optical Loss Test Set

Application:

Incorporates a stable dual 1310nm/1550nm laser source and optical power meter in a convenient self-contained package to perform insertion loss and link loss testing.

Features:

- Large, backlit LCD display makes it easy to view power levels and calibration wavelengths
- Operation is simple due to the user-friendly keypad and intuitive controls
- Remote operation permits the automation of tedious or repetitive measurements
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- Indium-gallium-arsenide (InGaAs) photodetector
- 1310/1550nm dual laser source
- +3dBm to -75dBm measurement range
- PASS/FAIL testing with audible signal
- Manual or timer-driven data logging for periods from one second to one hour
- Data storage for 1,000 measurements
- RS232 interface for instrument configuration and data transfer to a PC-compatible workstation or serial printer
- Powered by a rechargeable nickel-metal hydride (NiMH) battery pack, four alkaline batteries or AC adapter
- Built-in NiMH battery charger with external power supply

Requires one SOC and one UCI connector adapter (See pages 29 and 30). Source output is directly compatible with PC connectors. For APC use hybrid cable approach (See page 33).



523B-13/15

| Description | Cat (UPC) No. |
|--|--------------------|
| Advanced Single-mode Optical Loss Test Set | 523B-13/15 (60550) |

fiberTOOLS® Single-mode Optical Loss Test Sets

Application:

These conveniently packaged test sets are used to test, troubleshoot and maintain telco, CATV, LAN and other single-mode network applications. The Basic Set can be used to measure output power and certify end-to-end attenuation on deployed fiber spans.

Features:

- Easy-to-use, all-in-one prepackaged kit
- Dual wavelength 1310/1550nm source covers all requirements
- Source has stable, calibrated output
- Rugged, splashproof instruments
- Water- and air-tight hard carrying case

Specifications:

- Meet the link certification requirements of TIA-568B and ISO/IEC-11801
- 0.01dB measurement resolution
- Two AA batteries provide power for over 100 hours in the optical power meters, over 50 hours in the LED sources and over 48 hours in the visual fault finder

Basic Sets include:

- 555B Optical Power Meter plus adapter
- 262A Dual Wavelength 1310/1550nm Laser Source plus adapters
- Reference cable
- Connector cleaner
- Cleaning wands
- Hard carrying case (900B)

Deluxe Sets include:

- Basic Set contents
- Visual fault finder (T164L — 1.25 mm or T165L — 2.5 mm as applicable)



10520K



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

| Description | Cat (UPC) No. |
|---|-----------------|
| Basic Single-mode Test Sets: | |
| Basic SM Test Set, E2000-PC | 10520E2 (60611) |
| Basic SM Test Set, FC-PC | 10520K (60608) |
| Basic SM Test Set, ST-PC | 105203K (60609) |
| Basic SM Test Set, SC-PC | 105206K (60610) |
| Basic SM Test Set, LC-PC | 10520LC (60612) |
| Basic SM Test Set, MU-PC | 10520MU (60613) |
| Deluxe Single-mode Test Sets: | |
| Deluxe SM Test Set, E2000-PC | 11520E2 (60618) |
| Deluxe SM Test Set, FC-PC | 11520K (60615) |
| Deluxe SM Test Set, ST-PC | 115203K (60616) |
| Deluxe SM Test Set, SC-PC | 115206K (60617) |
| Deluxe SM Test Set, LC-PC | 11520LC (60619) |
| Deluxe SM Test Set, MU-PC | 11520MU (60620) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

fiberTOOLS® Multimode Optical Loss Test Sets

Application:

These conveniently packaged test sets are used to test, troubleshoot and maintain LAN and other network applications.

Features:

- Easy-to-use, all-in-one prepackaged kit
- Dual wavelength 850/1300nm LED source(s) covers all requirements
- Rugged, splashproof instruments
- Water- and air-tight hard carrying case

Specifications:

- Meet the link certification requirements of TIA-568B and ISO/IEC-11801
- 0.01dB measurement resolution
- Two AA batteries provide power for over 100 hours in the optical power meters, over 24 hours in the LED sources and over 48 hours in the visual fault finder

Basic Sets include:

- 555B Optical Power Meter plus adapter
- 252B Dual Wavelength 850/1300nm LED Source plus 2x adapters
- Reference cable
- Mating adapter
- Connector cleaner
- Cleaning wands
- Hard carrying case (900B)

Basic MTRJ Test Sets include:

- 556MT Optical Power Meter plus adapter
- 255MT 1300nm MT-RJ Source
- 257MT 850nm LED MT-RJ Source
- Reference cable
- Mating adapter
- Connector cleaner
- Cleaning wands
- Hard carrying case (900B)

Deluxe Sets include:

- Basic Set contents
- Visual fault finder (T164L — 1.25 mm or T165L — 2.5 mm or 263MT for MTRJ, as applicable)



6052B2K

| Description | Cat (UPC) No. | Cat (UPC) No. | Description | Cat (UPC) No. | Cat (UPC) No. |
|---|-----------------|-----------------|---|-----------------|-----------------|
| Basic Multimode Test Sets: | 50/125 | 62.5/125 | Deluxe Multimode Test Sets: | 50/125 | 62.5/125 |
| Basic MM Test Set, E2000-PC | 5052BE2 (60627) | 6052BE2 (60643) | Deluxe MM Test Set, E2000-PC | 5152BE2 (60635) | 6152BE2 (60651) |
| Basic MM Test Set, FC-PC | 5052B2K (60624) | 6052B2K (60640) | Deluxe MM Test Set, FC-PC | 5152B2K (60632) | 6152B2K (60648) |
| Basic MM Test Set, ST-PC | 5052B3K (60625) | 6052B3K (60641) | Deluxe MM Test Set, ST-PC | 5152B3K (60633) | 6152B3K (60649) |
| Basic MM Test Set, SC-PC | 5052B6K (60626) | 6052B6K (60642) | Deluxe MM Test Set, SC-PC | 5152B6K (60634) | 6012B6K (60650) |
| Basic MM Test Set, LC-PC | 5052BLC (60628) | 6052BLC (60644) | Deluxe MM Test Set, LC-PC | 5152BLC (60636) | 6152BLC (60652) |
| Basic MM Test Set, MU-PC | 5052BMU (60629) | 6052BMU (60645) | Deluxe MM Test Set, MU-PC | 5152BMU (60637) | 6152BMU (60653) |
| Basic MM Test Set, MT-RJ | 5062FMT (60630) | 6062FMT (60646) | Deluxe MM Test Set, MT-RJ | 5162FMT (60638) | 6162FMT (60654) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) | 90ACK (60686) | AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) | 90ACK (60686) |

fiberTOOLS MT-RJ Optical Loss Test Sets

Application:

Our MT-RJ Test Sets provide all the equipment required to test, troubleshoot and certify multimode optical links.

Features:

- Easy-to-use, all-in-one prepackaged kit
- Both 850 and 1300nm LED sources available
- Rugged, splashproof instruments
- Conveniently packaged in a water- and air-tight hard case (Deluxe Set only)

Specifications:

- Meet the link certification requirements of TIA-568B and ISO/IEC-11801
- 0.01dB measurement resolution
- Two AA batteries provide power for over 100 hours in the optical power meters, over 24 hours in the LED sources and over 48 hours in the visual fault finder

Single Wavelength Test Sets include:

- 556MT Optical Power Meter plus MT-RJ adapter
- 255MT (1300nm) or 257MT (850nm) LED Source
- 62.5/125 Reference Cable Set
- Mating adapter
- Soft carrying case (911B)

Dual Wavelength Basic Test Sets include:

- 556MT Optical Power Meter plus MT-RJ adapter
- 255MT 1300nm MT-RJ LED Sources
- 257MT 850nm MT-RJ LED Sources
- MT-RJ Reference Cable Set
- MT-RJ Mating Adapter
- Universal connector cleaner
- Hard carrying case (900B)

Dual Wavelength Deluxe Test Sets include:

- Basic Set contents
- 263MT MT-RJ Visual Fault Finder



60556MT



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

| Description | Cat (UPC) No. | Cat (UPC) No. |
|---|-----------------|-----------------|
| Single Wavelength MT-RJ Test Sets: | 50/125 | 62.5/125 |
| MM Test Set, 1300nm | N/A | 60556MT (60555) |
| MM Test Set, 850nm | N/A | 60576MT (60727) |
| Dual Wavelength 850/1300nm MT-RJ Test Sets: | 50/125 | 62.5/125 |
| Basic MM Test Set, 850/1300nm | 5062FMT (60630) | 6062FMT (60646) |
| Deluxe MM Test Set, 850/1300nm | 5162FMT (60638) | 6162FMT (60654) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) | 90ACK (60686) |

Optical Power Meters

| MODEL | 522B | 522B-HP | 555B | 556MT | 557B | 558B |
|------------------------------------|---------------------------------|---------------------------------|--------------------|---------------|--------------------|----------------------|
| PACKAGE | Handheld | Handheld | Palm-sized | Palm-sized | Palm-sized | Palm-sized |
| DETECTOR TYPE | 1 mm InGaAs | Filtered 2 mm InGaAs | 1 mm InGaAs | 3 mm Ge | 3 x 3.5 mm Silicon | Filtered 2 mm InGaAs |
| CALIBRATION WAVELENGTHS (nm) | 850/980/1310/ 1480/1550/1625 | 850/980/1310/ 1480/1550/1625 | 850/1300/1310/1550 | 850/1300/1550 | 635/780/850 | 980/1310/1550 |
| MEASUREMENT RANGE | +3 to -75dBm | +27 to -53dBm | +3 to -60dBm | +3 to -40dBm | +3 to -60dBm | +27 to -30dBm |
| MEASUREMENT UNITS | dB, dBm, mW | dB, dBm, mW | dB, dBm | dB, dBm | dB, dBm | dB, dBm |
| OPTICAL POWER METER INTERFACE TYPE | SOC Universal | SOC Universal | SOC Universal | SOC Universal | SOC Universal | SOC Universal |
| User-selectable Auto Shutoff | ● | ● | ● | ● | ● | ● |
| Storage Capability | ● | ● | | | | |



522B



522B-HP



555B



556MT



557B



558B

Advanced Optical Power Meters



522B

Application:

Designed for insertion loss and link loss measurements using an external light source.

Features:

- Large, backlit LCD display makes it easy to view power levels and calibration wavelengths
- Operation is simple due to the user-friendly keypad and intuitive controls
- Remote operation permits the automation of tedious or repetitive measurements
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 850nm, 980nm, 1310nm, 1480nm, 1550nm and 1625nm calibration wavelengths
- InGaAs photodetector
- +3dBm to -75dBm measurement range

- PASS/FAIL testing with audible signal
- Manual or timer-driven data logging for periods from one second to one hour
- Data storage for 1,000 measurements
- RS232 interface for instrument configuration and data transfer to a PC-compatible workstation or serial printer
- Powered by a rechargeable nickel-metal hydride (NiMH) battery pack, four alkaline batteries or AC adapter
- Built-in NiMH battery charger with external power supply

Requires one Snap-On Connector (SOC) interface (See pages 29 and 30). Compatible with both PC and APC connectors.

| Description | Cat (UPC) No. |
|---|-----------------|
| Advanced Optical Power Meter, Medium Power to +3dBm | 522B (60548) |
| Advanced Optical Power Meter, High Power to +27dBm | 522B-HP (60549) |



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

InGaAs Optical Power Meter

Application:

Suitable for power measurements on both laser and LED based single-mode and multimode fiber optic systems.

Features:

- Easy-to-use; three buttons control all essential functions
- Multi-wavelength reference stores and recalls reference power levels for faster, more efficient measurement
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 850nm, 1300nm, 1310nm and 1550nm calibration wavelengths
- InGaAs detector
- +3 to -60dBm measurement range
- 0.01dB measurement resolution
- Relative logarithmic dB and absolute logarithmic dBm units
- User-selectable auto shutoff
- Two AA batteries provide power for over 100 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires one Snap-On Connector (SOC) adapter (See pages 29 and 30). Compatible with both PC and APC connectors.



555B

| Description | Cat (UPC) No. |
|---|---------------|
| InGaAs Optical Power Meter | 555B (60567) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

Ge MT-RJ Optical Power Meter

Application:

Pair with an LED source to test insertion loss of multimode MT-RJ fiber optic cables and connectors or use independently to perform link loss testing of installed cable plants.

Features:

- Easy-to-use; three buttons control all essential functions
- Multi-wavelength reference storage capability permits convenient insertion and link loss testing at different transmission windows
- Wide area detector allows for testing of each channel individually, simultaneously or alternating between the two channels
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 850nm, 1300nm and 1550nm NIST traceable calibration wavelengths
- Special extra-large area germanium detector
- +3 to -40dBm measurement range
- -0.01dB measurement resolution
- Relative logarithmic dB and absolute logarithmic dBm units
- User-selectable auto shutoff
- Two AA batteries provide power for over 100 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires one 13A2 for MT-RJ Snap-On Connector (SOC) adapter (See page 30). Compatible with both PC and APC connectors.



556MT

| Description | Cat (UPC) No. |
|---|---------------|
| Ge MT-RJ Optical Power Meter | 556MT (60552) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

Silicon Optical Power Meter



557B

Application:

Optimized for power measurements on fiber optic systems based on single-mode, multimode, plastic or large core glass optical fibers and using near-infrared or visible light sources.

Features:

- Easy-to-use; three buttons control all essential functions
- Multi-wavelength reference stores and recalls reference power levels for faster, more efficient measurement
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 635nm, 780nm and 850nm calibration wavelengths
- 3 x 3.5 mm Silicon detector
- +3 to -60dBm measurement range
- 0.01dB measurement resolution
- Relative logarithmic dB and absolute logarithmic dBm units
- User-selectable auto shutoff
- Two AA batteries provide power for over 100 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires one Snap-On Connector (SOC) adapter (See pages 29 and 30). Compatible with both PC and APC connectors.



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

| Description | Cat (UPC) No. |
|-------------|---------------|
|-------------|---------------|

| | |
|---|---------------|
| Silicon Optical Power Meter | 557B (60553) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

High Intensity InGaAs Optical Power Meter



558B

Application:

Suitable for power measurements on high power single-mode and DWDM fiber optic systems.

Features:

- Easy-to-use; three buttons control all essential functions
- Multi-wavelength reference stores and recalls reference power levels for faster, more efficient measurement
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 980nm, 1310nm and 1550nm calibration wavelengths
- +25 to -30dBm measurement range at 1310/1550nm
- 0.01dB measurement resolution
- Relative logarithmic dB and absolute logarithmic dBm units
- User-selectable auto shutoff
- Two AA batteries provide power for over 100 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires one Snap-On Connector (SOC) interface (See pages 29 and 30). Compatible with both PC and APC connectors.

| Description | Cat (UPC) No. |
|-------------|---------------|
|-------------|---------------|

| | |
|---|---------------|
| High Intensity InGaAs Optical Power Meter | 558B (60568) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

Fault Locators and Light Detectors

| MODEL | T160L | T164L | T165L | 263LX | 263MT | MicroOTDR™ | 510 LS SensoLITE® |
|------------------------|----------------------------|---|----------------------------|--------------------------|-----------------------|-----------------------|---------------------|
| TYPE | Visible Laser | Visible Laser | Visible Laser | Visible Laser | Visible Laser | OTDR | Light Detector (Ge) |
| WAVELENGTH (nm) | 635nm (RED) | 635nm (RED) | 635nm (RED) | 635nm (RED) | 635nm (RED) | 1310nm | 630 to 1600nm |
| DISTANCE | Up to 3 km (VERY BRIGHT) | Up to 1 km (BRIGHT) | Up to 1 km (BRIGHT) | Up to 3 km (VERY BRIGHT) | Up to 1 km (BRIGHT) | up to 20 km | |
| LIFE / BATTERY TYPE | 48 hours (2 AA) | 40 hours (2 AAA) | 40 hours (2 AAA) | 40 hours (2 AA) | 24 hours (2 AA) | 13,000 Tests (4 AA) | 1 year (2 AA) |
| OPTICAL INTERFACE TYPE | 2.5 mm Universal Interface | 1.25 mm Universal Interface for Small Form Connectors (LC,MU) | 2.5 mm Universal Interface | Fixed FC-PC Interface | Fixed MT-RJ Interface | Fixed ST-PC Interface | Universal Interface |
| Single-mode | ● | ● | ● | ● | | ● | |
| Multimode | ● | ● | ● | ● | ● | ● | ● |



T160L



T164L



T165L



263LX



263MT



55446



510LS

Visual Fault Finder

Application:

Pinpoints cable breaks and bad connections in both single-mode and multimode fiber.

Features:

- Quick connect interface adapts to all standard PC and APC polished 2.5 mm ferruled connectors without adapters
- Both continuous and pulsed operation aid in fault detection even in high ambient lighted areas
- Pocket-sized
- Rugged, waterproof design

Specifications:

- Ultra-bright 635nm visible laser detects fiber breaks up to 3 km away
- Operates for over 48 hours on two AA batteries
- Includes integral dust cap and nylon, belt-mounted carrying pouch
- Optional snap-on adapters permit attachment to ST, SC and FC connectors



T160L

| Description | Cat (UPC) No. |
|-------------|---------------|
|-------------|---------------|

| | |
|---------------------|---------------|
| Visual Fault Finder | T160L (60562) |
| ST SOC Adapter | 1630 (60580) |
| SC SOC Adapter | 1662 (60581) |
| FC SOC Adapter | 1620 (60582) |

Visual Fault Finders for 2.5 mm and 1.25 mm Connectors



T165L

Application:

Enables the user to locate damage in ceramic connectors by causing the ferrule to glow when broken or when the endface is dirty or needs repolishing.

Features:

- Low cost
- Quick-connect interface is easy to use and saves time and money
- Fiber breaks, bends and crimping losses are easy to locate with the 635nm red laser
- Fixed blink mode for easy fault location or identification
- Pocket-sized
- Rugged, compact, with rubberized and waterproof aluminum housing

Specifications:

- 635nm red laser
- 0.5 mW minimum peak power into 9/125µm SM
- 0.07 mW minimum peak power into 50/125 µm 1 mm
- Blink frequency is 2 to 3Hz
- CORH Laser Class II
- Two AAA batteries provide power for over 40 hours

Compatible with both PC and APC polished connectors.

| Description | Cat (UPC) No. |
|--|---------------|
| Visual Fault Finder for 1.25 mm Connectors | T164L (60622) |
| Visual Fault Finder for 2.5 mm Connectors | T165L (60621) |

FC-PC and MT-RJ Visual Fault Finders



263MT

Application:

Used to quickly locate bending loss and breaks in optical fibers, and to identify bad connectors.

Features:

- 635nm red laser makes fiber breaks and bending losses easily visible
- Stable, calibrated output
- Continuous wave output mode for steady fault illumination
- Blinking output mode increases viewing contrast
- Optional AC power converter/adaptor is available for prolonged or benchtop use

- Proven, reliable and compact design
- Economically priced
- Rugged and splashproof
- 263LX model includes fixed FC-PC interface, for use with optional FoPro® Adapter Cable (See page 32) or user-supplied hybrid cable (See page 33)
- 263MT model is designed for MT-RJ duplex connectors to test both fibers simultaneously

Specifications:

- LX model has a range up to 3 km
- MT model has a range up to 1 km
- More than 40 hours of continuous operation

| Description | Cat (UPC) No. |
|--|---------------|
| Visual Fault Finder | 263LX (60538) |
| MT-RJ Visual Fault Finder | 263MT (60539) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |



55446

MicroOTDR™ Optical Fault Locator

Application:

Provides fast, easy and accurate identification of loss points/faults and length for multimode and single-mode fiber optic cable.

Features:

- Easy-to-use; one button controls all essential functions
- Fast; takes less than six seconds to identify the distance to six optical events plus the cable end
- Delivers over 13,000 tests from four AA batteries
- Fixed ST-PC interface, use hybrid cables for other connector types

Specifications:

- Uses 1310nm laser OTDR technology
- Measures cable length to 20 km
- Identifies distance to seven loss points/faults
- Distance accuracy of ±2 m
- ST-style output connection

| Description | Cat (UPC) No. |
|---------------------------------|---------------|
| MicroOTDR Optical Fault Locator | 55446 |

SensoLITE® Light Detector

Application:

Identifies live multimode and single-mode fibers.

Features:

- Helps prevent accidental eye exposure to hazardous laser radiation
- Simple one-button test
- Patented light baffle accepts all standard fiber optic connector types, bare fiber and even fiber loop
- Includes both audible and visible indicators
- Unique design permits testing in bright light conditions

Specifications:

- Wide sensitivity from +25dBm to -55dBm
- Detects visible and invisible light wavelengths from 630nm to 1600nm
- Operates for approximately one year on two AA batteries
- Automatic battery check



510LS

| Description | Cat (UPC) No. |
|--------------------------|---------------|
| SensoLITE Light Detector | 510LS (60566) |

Bare Fiber Adapter

Application:

Allows temporary connection of 125 micron multimode or single-mode fiber to measuring equipment such as Sources, Optical Power Meters and Fault Locators with an FC-style connector. Connection to other common fiber optic connector styles can be accomplished with a hybrid test jumper.

Features:

- Short 5 mm minimum strip length provides easy insertion into the capillary and avoids fiber breakage
- Reusable

Specifications:

- Includes a durable 2.5 mm tungsten carbide ferrule and a ferrule cleaning tool



55456

| Description | Cat (UPC) No. |
|---|-----------------|
| Bare Fiber Adapter (125µm, FC-style connector) | 934-125 (55456) |

LED Sources

| MODEL | 252B | 253B | 255MT | 257MT |
|---------------------------------------|---------------|---------------|-------------|-------------|
| SOURCE TYPE | LED | LED | LED | LED |
| WAVELENGTHS (nm) | 850/1300 | 650 | 1300 | 850 |
| OPTICAL INTERFACE TYPE | SOC Universal | SOC Universal | Fixed MT-RJ | Fixed MT-RJ |
| Continuous and Modulated Output Modes | ● | ● | ● | ● |
| User-selectable Auto Shutoff | ● | ● | ● | ● |
| Single-mode | ● | | ● | |
| Multimode (glass) | ● | | ● | ● |
| Multimode (plastic) | | ● | | |



252B



253B



255MT



257MT

Dual Wavelength LED Source

Application:

Perform multimode insertion loss and link loss measurements on local area networks, premises networks and Fiber Distributed Data Interface (FDDI) installations.

Features:

- Stable, calibrated output
- Proven, reliable and compact design
- Easy-to-use; three buttons control all essential functions
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- Single unit combines 850nm and 1300nm calibrated wavelengths
- Nominal output for 62.5/125 is -13dBm for 850nm and -20dBm for 1300nm
- Continuous and modulated output modes
- User-selectable auto shutoff
- TIA-568B compliant
- Two AA batteries provide power for over 24 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires two Snap-On Connector (SOC) adapters (See pages 29 and 30).

| Description | Cat (UPC) No. |
|---|---------------|
| Dual 850/1300nm LED Source | 252B (60530) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |



252B

Single Wavelength 650nm LED Source

Application:

Performs multimode insertion loss and link loss measurements when paired with an optical power meter for POF testing.

Features:

- Stable, calibrated output
- Proven, reliable and compact design
- Easy-to-use; two buttons control all essential functions
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- Nominal output into 200/230 is -15dBm
- Continuous and modulated output modes
- User-selectable auto shutoff
- Two AA batteries provide power for over 24 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires one Snap-On Connector (SOC) adapter (See pages 29 and 30).

| Description | Cat (UPC) No. |
|---|---------------|
| 650nm LED Source | 253B (60531) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |



253B



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

MT-RJ Dual Channel LED Sources

Application:

Test insertion loss of multimode MT-RJ fiber optic cables and connectors, or pair with an optical power meter for link loss testing of installed cable plants.

Features:

- Stable, calibrated output
- Proven, reliable and compact design
- Easy-to-use; two buttons control all essential functions
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 255MT model has a 1300nm wavelength
- 257MT model has an 850nm wavelength
- Nominal output for 62.5/125 is -20dBm for both 850nm and 1300nm
- Continuous and alternating output modes
- Fixed MT-RJ interface
- User-selectable auto shutoff
- Two AA batteries provide power for over 24 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

| Description | Cat (UPC) No. |
|---|---------------|
| MT-RJ Dual Channel LED Source 1300nm | 255MT (60533) |
| MT-RJ Dual Channel LED Source 850nm | 257MT (60536) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |



255MT

Laser Sources

| MODEL | 262A | 265A | 266A |
|---------------------------------------|-------------------|-------------------|-------------------|
| SOURCE TYPE | Fabry-Perot Laser | Fabry-Perot Laser | Fabry-Perot Laser |
| WAVELENGTHS (nm) | 1310/1550 | 1310 | 1550 |
| OPTICAL INTERFACE TYPE | UCI Universal | UCI Universal | UCI Universal |
| Continuous and Modulated Output Modes | ● | ● | ● |
| User-selectable Auto Shutoff | ● | ● | ● |
| Single-mode | ● | ● | ● |
| Multimode (glass) | | | |



262A



265A



266A

1310/1550 Dual Wavelength Laser Source



262A

Application:

Performs single-mode insertion loss and link loss measurements when paired with an optical power meter.

Features:

- Single output interface simplifies dual wavelength measurements
- Stable, calibrated output
- Proven, reliable and compact design

- Easy-to-use; three buttons control all essential functions
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- Single unit toggles between 1310nm and 1550nm wavelengths
- Fabry-Perot laser diodes
- Calibrated output power is nominal -7.0dBm
- Continuous and modulated output modes
- User-selectable auto shutoff
- Two AA batteries provide power for over 50 hours
- Optional AC power converter/adaptor is available for prolonged or benchtop use

Requires one UCI adapter (See pages 29 and 30). For PC polished connectors only. For APC connectors, use hybrid reference cables (See page 33).



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

| Description | Cat (UPC) No. |
|---|---------------|
| Dual Laser Source | 262A (60564) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

Single Wavelength Laser Sources

Application:

Performs single-mode insertion loss and link loss measurements when paired with an optical power meter.

Features:

- Stable, calibrated output
- Proven, reliable and compact design
- Easy-to-use; two buttons control all essential functions
- Rubber boot protects against dropping and crushing
- Rugged and splashproof

Specifications:

- 265A has a 1310nm wavelength and -7dBm output for single-mode testing
- 266A has a 1550nm wavelength and -7dBm output for single-mode testing
- Continuous and modulated output modes
- User-selectable auto shutoff
- The 265A model operates for over 36 hours on two AA batteries
- The 266A model operates for over 80 hours on two AA batteries
- AC power converter/adaptor is available for prolonged or benchtop use

Requires one UCI adapter (See pages 29 and 30). For PC polished connectors only. For APC connectors, use hybrid reference cables (See page 33).



265A



To accommodate other connector types, see our SOC/UCI adapters on pages 29 and 30 and reference cables on page 33.

| Description | Cat (UPC) No. |
|---|---------------|
| 1310nm Laser Source, SM | 265A (60565) |
| 1550nm Laser Source, SM | 266A (60544) |
| AC/Main Power Converter 120V (one required per handheld unit) | 90ACK (60686) |

fiberTOOLS® Carrying Cases

Application:

Designed to hold Tempo handheld instruments and a full range of test accessories.

Features:

- Top tray holds up to 3 (900B) or 4 (901B) handheld instruments and a T160L Visual Fault Finder
- Bottom compartment of both models stores additional instruments and test accessories
- Compact, waterproof and lockable
- Molded from black structural foam resin

911B and 912B Soft Carrying Cases

- Main top-loading compartment holds up to 2 (911B) or 3 (912B) handheld instruments
- Front storage compartment of both models provides storage for adapters, cables and other accessories
- All compartments secured by heavy-duty YKK zippers
- Soft, padded, rugged canvas-style nylon case
- Includes shoulder strap and belt loops (on back)



900B

Instruments and accessories not included



911B

Instruments and accessories not included

| Description | Cat (UPC) No. |
|--|---------------|
| Hard Carrying Case, Holds 3x Handhelds | 900B (60684) |
| Hard Carrying Case, Holds 4x Handhelds | 901B (60685) |
| Soft Carrying Case, Holds 2x Handhelds | 911B (60579) |
| Soft Carrying Case, Holds 3x Handhelds | 912B (60688) |

Fiber Optic Instrument Adapters — SOC and UCI

Application:

Our SOC and UCI adapters provide direct connectivity for Tempo fiberTOOLS® to a wide range of industry-standard fiber optic connectors.

Features:

- Adapter design ensures maximum accuracy and repeatability when performing critical measurements on fiber optic systems
- Easy to clean and use

Specifications:

- Single-mode and multimode compatible
- SOC adapters are compatible with both PC and Angled APC physical contact interfaces
- UCI adapters feature durable phosphor bronze alignment sleeve
- SOC (Snap-On Connector) adapter is used on all power meters and 250 "B" series LED Sources
- UCI (Universal Connector Interface) adapter is used on all 250/260 "A" Series Sources and 330 Series Variable Optical Attenuators

Fiber Optic Instrument Adapters — SOC and UCI

| Description | Cat (UPC) No. | |
|--|---|---|
| CONNECTOR TYPE | SOC ADAPTER | UCI ADAPTER |
| 1.25 mm Quick-Connect Universal Adapter (LC, MU, etc.) |  T1026 (60588) | Use hybrid cable only * |
| 2.5 mm SOC Quick-Connect Adapter (E2000, FC, SC, ST, etc.) |  T1025 (60587) |  AU-250 (60703) |
| Blank Adapter (for custom applications) |  T1001 (60585) | |
| D4 |  T1089 (60597) | Use hybrid cable only * |
| DIN 47256 |  T1010 (60586) |  AD-108 (60697) |
| E-2000 |  T10E2 (60599) |  AE2-10 (60698) |
| EC-Radiall |  T10E0 (60598) | Use hybrid cable only * |
| FC |  T1020 (60576) |  APC-108 (60572) |
| HMS-0 |  1050 (60592) |  AMS-00 (60700) |
| HMS-10/A (SMA-2.5 mm) |  1086 (60595) |  AMT-10 (60701) |
| HMS-10/HP |  1040 (60590) |  AHP-10 (60699) |
| LC |  10LC (60600) | Use hybrid cable * or FoPro® x |

Fiber Optic Instrument Adapters — SOC and UCI

| Description | Cat (UPC) No. | |
|-----------------------------|---|---|
| CONNECTOR TYPE | SOC ADAPTER | UPI-PC ADAPTER |
| MIL-T-29504/4 & /5 Termini |  T1038 (60589) | Use hybrid cable * or FoPro x |
| Mini-BNC |  T1047 (60591) | Use hybrid cable only * |
| MT-RJ ♦ |  T13A2 (60605) ♦ | Use hybrid cable only * |
| MT-RJ Ferrule Only ♦ |  T13AF (60606) ♦ | Use hybrid cable only * |
| MU |  T10MU (60601) | Use hybrid cable * or FoPro x |
| SC |  T1062 (60575) |  ASC-108 (60574) |
| SMA 905/906 |  T1087 (60596) |  ASM-90 (60702) |
| ST |  T1030 (60577) |  ATS-108 (60573) |
| STRATOS 430/ HOLTEK 38000 |  T1057 (60593) | Use hybrid cable only * |
| TOSLINK — Simplex |  T10TB (60602) | Use hybrid cable only * |
| TOSLINK — Duplex (Set of 2) |  T10TD (60603) | Use hybrid cable only * |
| Versatile Link — V/Z PIN |  T10ZP (60604) | Use hybrid cable only * |
| VFO — Radiall |  T1081 (60594) | Use hybrid cable only * |

x FoPro ferrule options include 2.5 mm, 1.57 mm (Mil-style 16AWG optical contacts) and 1.25 mm.

* When using a Hybrid Adapter Cable, the instrument UCI adapter and one end of the Hybrid Adapter Cable should be a commonly available connector type. (i.e. FC, SC or ST)

♦ SOC adapter for use only with the 556MT Optical Power Meter on page 20.



90SOC (60687)

SOC adapter tool for easy installation and removal of SOC adapters from instrument interfaces.

fiberSAFE™ USA/Canada Telecom Adapter Kit — SOC and UCI



956US

Application:

Conveniently combines the most popular SOC, UCI and bulkhead mating adapters used in the North American telecommunications market. Enables direct connectivity for Tempo fiberTOOLS® to industry-standard fiber optic connectors.

Specifications:

USA/Canada Telecom Adapter Kit includes:

- FC-PC/APC (wide key) bulkhead/mating adapter
- ST-PC/APC bulkhead/mating adapter

- SC-PC/APC bulkhead/mating adapter
- E2000-PC/APC bulkhead/mating adapter
- FC/SC hybrid bulkhead adapter
- FC/ST hybrid bulkhead adapter
- FC/E2000 hybrid bulkhead adapter
- Universal 2.5 mm Quick Connect SOC adapter

| Description | Cat (UPC) No. |
|------------------------|---------------|
| USA/Canada Adapter Kit | 956US (60695) |

fiberSAFE Worldwide Telecom Adapter Kit — SOC and UCI

Application:

Conveniently combines the most popular SOC, UCI and bulkhead mating adapters used outside the USA and Canada. Enables direct connectivity for Tempo fiberTOOLS to industry-standard fiber optic connectors.

Specifications:

Worldwide Telecom Adapter Kit includes:

- DIN 47256-PC/APC bulkhead/mating adapter
- FC-PC/APC (wide key) bulkhead/mating adapter
- SC-PC/APC bulkhead/mating adapter
- E2000-PC/APC bulkhead/mating adapter

- FC/DIN hybrid bulkhead adapter
- FC/SC hybrid bulkhead adapter
- FC/E2000 hybrid bulkhead adapter
- Universal 2.5 mm Quick Connect SOC adapter

| Description | Cat (UPC) No. |
|-----------------------|---------------|
| Worldwide Adapter Kit | 956WW (60696) |

fiberSAFE LAN Adapter Kit — SOC and UCI

Application:

Conveniently combines the most popular SOC, UCI and bulkhead mating adapters used for Local Area Networks. Enables direct connectivity for Tempo fiberTOOLS to industry-standard fiber optic connectors.

Specifications:

LAN Adapter Kit includes:

- FC-PC/APC (wide key) bulkhead/mating adapter
- ST-PC/APC bulkhead/mating adapter
- SC-PC/APC bulkhead/mating adapter

- SMA 905/906 bulkhead/mating adapter
- FC/ST hybrid bulkhead adapter
- ST/SC hybrid bulkhead adapter
- Universal 2.5 mm Quick Connect SOC Adapter

| Description | Cat (UPC) No. |
|-----------------|---------------|
| LAN Adapter Kit | 956LN (60694) |

FoPro® Fiber Optic Test Probes

Application:

By eliminating the need for specialized connectors, adapters and hybrid jumper cables, FoPro fiber optic probes simplify testing patch panels and the numerous termination types encountered in the field.

Features:

- Small, light and cost effective
- Patented design protects delicate connector endfaces from scratching
- Anti-rotation grip prevents the probe endface from grinding against the connector endface during a test
- Eliminates the need to stock numerous hybrid test cable configurations

Specifications:

- All standard FoPro assemblies are 3 m (9.8') long and come in a protective carrying case
- A tethered adapter converts the FoPro from a male to female interface for testing to plug connectors as well as testing the "pin" interface of multichannel connectors

Available in three ferrule configurations:

- FP series for connector applications with 2.5 mm OD ferrules (DIN, E2000, FC, SC, ST, etc.)
- F1 series for connector applications with 1.25 mm OD ferrules (LC, MU, etc.)
- F2 series for MIL-T-29504 /4 and /5 terminations applications with 1.57 mm (0.62") OD ferrules



FP2K-101-03

| Description | Cat (UPC) No. | Cat (UPC) No. | Cat (UPC) No. | Cat (UPC) No. |
|--|---------------------|---------------------|---------------------|---------------------|
| FoPro with 2.5 mm Ferrule: | SM 9/125 | MM 50/125 | MM 62.5/125 | MM 100/140 |
| FC-PC | FP2K-101-03 (60704) | FP2K-105-03 (60705) | FP2K-106-03 (60706) | |
| ST-PC | FP3K-101-03 (60707) | FP3K-105-03 (60708) | FP3K-106-03 (60709) | FP36-110-03 (60728) |
| SC-PC | FP6K-101-03 (60710) | FP6K-105-03 (60711) | FP6K-106-03 (60712) | |
| FoPro with 1.25 mm Ferrule: | SM 9/125 | MM 50/125 | MM 62.5/125 | MM 100/140 |
| FC-PC | F12K-101-03 (60713) | F12K-105-03 (60714) | F12K-106-03 (60715) | |
| ST-PC | F13K-101-03 (60716) | F13K-105-03 (60717) | F13K-106-03 (60718) | F136-110-03 (60729) |
| SC-PC | F16K-101-03 (60719) | F16K-105-03 (60720) | F16K-106-03 (60721) | |
| FoPro with MIL-style 1.57 mm Ferrule: | SM 9/125 | MM 50/125 | MM 62.5/125 | MM 100/140 |
| ST-PC | F23K-101-03 (60722) | F23K-105-03 (60723) | F23K-106-03 (60724) | F236-110-03 (60730) |

TIA-568B and FOTP-171A Certified Reference Cables



572J-101

Application:

Ensures accurate measurements for repeatable and reproducible testing to the latest industry standards.

Features:

Meets and/or exceeds the latest industry standards including:

- TIA/EIA-455-171 (FOTP-171A), issued June, 2001
- TIA-568B, TIA-562-7 (OFSTP-7) and TIA-526-14 (OFSTP-14) for optical link testing

- TIA-455-171 (FOTP-171, Attenuation) and TIA-455-8 (FOTP-8, Return Loss) for cable assembly testing

- Corresponding IEC measurement standards

Specifications:

- Ferrule OD: 2.4990 ±0.0005 mm
- Fiber to ferrule eccentricity: ≤ 0.25µm (SM) and ≤ 3µm (MM)
- Insertion loss: ≤ 0.15dB (SM, 1310/1550nm) and ≤ 0.25dB (MM, 850/1300nm)
- Return Loss: ≥ 55dB (SM, 1310/1550nm) and ≥ 40dB (MM, 850/1300nm)
- Beam exit angle: ≤ 0.25° (SM) and ≤ 0.5° (MM)
- Standard length is 3 m

Standard Reference Cables (Type A to Type B)

| Description | Cat (UPC) No. | Description | Cat (UPC) No. | Cat (UPC) No. |
|--------------------------------------|------------------|------------------------------------|------------------|------------------|
| Single-mode Reference Cables: | | Multimode Reference Cables: | | |
| | | | 50/125 | 62.5/125 |
| FC-PC to FC-PC | 562K-101 (60658) | FC-PC to FC-PC | 562K-105 (60659) | 562K-106 (60660) |
| ST-PC to ST-PC | 563K-101 (60661) | ST-PC to ST-PC | 563K-105 (60662) | 563K-106 (60663) |
| SC-PC to SC-PC | 566K-101 (60664) | SC-PC to SC-PC | 566K-105 (60665) | 566K-106 (60666) |
| E2000-PC to E2000-PC | 56E2-101 (60667) | E2000-PC to E2000-PC | 56E2-105 (60668) | 56E2-106 (60669) |
| LC-PC to LC-PC | 56LC-LFM (60670) | LC-PC to LC-PC | 56LC-LM5 (60671) | 56LC-LM6 (60672) |
| MU-PC to MU-PC | 56MU-LFM (60673) | MU-PC to MU-PC | 56MU-LM5 (60674) | 56MU-LM6 (60675) |

Hybrid Reference Cables (FC-PC to Type-A)

| Description | Cat (UPC) No. | Description | Cat (UPC) No. | Cat (UPC) No. |
|--------------------------------------|------------------|------------------------------------|------------------|------------------|
| Single-mode Reference Cables: | | Multimode Reference Cables: | | |
| | | | 50/125 | 62.5/125 |
| FC-PC to FC-APC | 572J-101 (60680) | | | |
| FC-PC to SC-APC | 576J-101 (60681) | | | |
| FC-PC to E2000-APC | 57E8-101 (60682) | | | |
| FC-PC to LC-PC | 57LC-LFM (60733) | FC-PC to LC-PC | 57LC-LM5 (60734) | 57LC-LM6 (60735) |
| FC-PC to MU-PC | 57MU-LFM (60736) | FC-PC to MU-PC | 57MU-LM5 (60737) | 57MU-LM6 (60738) |



262A

Dual Wavelength Laser Source

To measure attenuation of SM links with APC polished connectors, use our 262A Dual Wavelength Laser Source (see page 27) with the APC-108 FC UCI Adapter (see page 29) and a Hybrid Reference Cable. Use same hybrid reference cable approach for LC-PC and MO-PC connectors.

For special reference cable requirements, contact us by phone at 1.805.389.9800 or by email at fiberoptics@tempo.textron.com.



Tones and Probes



Classic 77 Series Tone Generators



77HP

Application:
Permits technicians to identify the conductor within a bundle, at a cross-connect point or at the remote end. Can be used on twisted pair wiring (telecom, datacom, etc.), single conductors, coaxial cables, de-energized AC wiring and most other wiring.

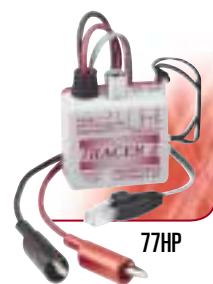
| Description | Cat (UPC) No. |
|-------------------------|------------------|
| 77HP Tone Generator | 77HP (08687) |
| 77HP/6A Tone Generator | 77HP/6A (08688) |
| 77HP/6AC Tone Generator | 77HP/6AC (60480) |



77CS (08686)
Leather Belt Holster for Classic 77 Series Tone Generators

Classic 77 Series Tone Generators

| FEATURES / SPECIFICATIONS | 77HP | 77HP / 6A | 77HP / 6AC |
|--|------|-----------|------------|
| Selectable Warble Tone | ● | ● | ● |
| Continuity Testing | ● | ● | ● |
| Polarity Testing | ● | ● | ● |
| Talk Battery Supply | ● | ● | ● |
| Two-line Modular Test Lead (RJ-11) | ● | ● | ● |
| Three-color LED (identifies AC ring voltage) | ● | ● | ● |
| Weather-resistant Design | ● | ● | ● |
| Bent Nose Clips with Bed-of-Nails Penetrator | | ● | ● |
| Cloth Test Leads | | | ● |
| Battery Operated (9V not included) | ● | ● | ● |



77HP



77HP/6A



77HP/6AC

Professional GX Series Tone Generators



77GX

New

- Features:**
- Microprocessor controlled circuitry for increased reliability
 - Two-line polarity indication for fast outlet identification
 - Automatic shutoff to prevent battery drain
 - Snag-proof boot prevents broken plug tabs
 - Convenient wrist/hanging lanyard

- Specifications:**
- Three distinct, selectable tone signal outputs for multiple line identification
 - Two selectable tone power outputs for use on open and shorted pairs
 - Independent continuity test function
 - Independent talk battery supply with higher output voltage
 - Fixed alligator clips and removable modular plug for multiple connection options
 - 77GX2 includes premium telco-style bent nose clips with piercing pin and bed-of-nails connectors

| Description | Cat (UPC) No. |
|----------------------|---------------|
| 77GX Tone Generator | 77GX (60556) |
| 77GX2 Tone Generator | 77GX2 (60560) |

Replacement Piercing Clips



RPC

Application:
These traditional telco-style clips can be used with almost any style cordsets.

- Specifications:**
- Clips feature bent nose design for use on 66 style punchdown blocks and bed-of-nails penetrator for use on insulated wires
 - Package of two clips with red and black boots

| Description | Cat (UPC) No. |
|----------------------------|---------------|
| Replacement Piercing Clips | RPC (08710) |

AdapToner Modular Breakout Tone Generator



AT8

Application:

The AT Tone Generator makes it simple to test continuity, polarity, send tone and even supply talk battery to any configuration of pairs in 8-position modular jacks and plugs.

Features:

- Combines the features of our tone generators and a modular breakout adapter
- In-line testing is made simple with both a modular plug and jack on each unit

Specifications:

- 8-position "snag-proof" modular plug
- 8-position jack with protective cover
- Quick reference guide with common wiring configurations
- Selectable solid/warble tone signal
- Tone, continuity and talk battery supply using alligator clips
- Weather-resistant design
- Battery operated (9V not included)

| Description | Cat (UPC) No. |
|---|---------------|
| AdapToner Modular Breakout Tone Generator | AT8 (08693) |

LAN Toner With HUB Blink



AT8L

Application:

The LAN Toner is designed for the network installation and maintenance professional and can be used on any wiring system including datacom, telecom, security/alarm, audio and CATV.

Features:

- Blinks HUB, Switch Port, and PC activity lights for fast identification
- Provides tone signaling, continuity testing and telephone line polarity indication combined with a modular breakout adapter
- Selectable tone outputs for identifying multiple cable runs
- Includes multiple connection options

| Description | Cat (UPC) No. |
|-------------|---------------|
| LAN Toner | AT8L (60583) |



600LS

Tone Test Set

Features:

- Our most comprehensive tone test set
- Traditional alternating tone signal for wire identification
- Audible line condition testing (level) indicates dead, working and off-hook lines

Specifications:

- Line 1 and 2 polarity testing using 4-conductor modular plug
- Improved talk battery supply for communication over inactive pairs
- Tone and test functions using either modular plug or 24" alligator clip leads
- Audible resistance level measurement
- Audible capacitance level measurement
- Battery operated (9V not included)

| Description | Cat (UPC) No. |
|---------------|---------------|
| Tone Test Set | 600LS (08680) |



600CS (08679)
Leather Belt Holster for 600LS Test Set

Alarm Loop Verifier/Tone Generator

Application:

Designed specifically for the security and alarm industry, the PE620 can be connected to a Normally Open or Normally Closed loop pair and provides a distinct audible tone when the alarm condition occurs.

Features:

- Latching feature provides a simple method for identifying intermittent failures ("swingers") and confirming operation of switches at remote locations

- In the latching mode, the unit will catch the alarm condition and continue sounding until the tester is reset
- As a tone generator, the unit provides a traditional variable tone that can be applied using the 24" red and black test leads or a convenient 6-position modular plug
- Convenient magnetic back plate allows the PE620 to be mounted directly to the control panel cabinet or door

Specifications:

- Battery operated (9V not included)

| Description | Cat (UPC) No. |
|------------------------------------|---------------|
| Alarm Loop Verifier/Tone Generator | PE620 (08665) |



100C (08668)
Leather Belt Holster for PE620 Tone Generator



PE620

200 Series Inductive Amplifiers

| MODEL NO. | 200EP | 200GX | 200FP |
|---|-------|-------|-------|
| Powerful 2" Speaker | ● | ● | |
| Powerful, Rear-fire Speaker | | | ● |
| One-button Operation | ● | ● | ● |
| Adjustable Volume Control | ● | ● | ● |
| LED for Visual Signal Strength Indication | ● | ● | ● |
| Recessed Tabs for Telephone Test or Headset Connection | ● | ● | ● |
| Speaker Bypass When Using Telephone Test Sets | | ● | |
| Noise Filtration | | | ● |
| Improved Tip Design for Better Reception and Lower Risk of Shorting Terminals | | ● | ● |
| Continuous-on Feature | | | ● |
| Five-minute Auto Shutoff | | | ● |
| Low-battery Indicator | | | ● |
| Battery Operated (9V not included) | ● | ● | ● |

New

200EP

200GX

200FP

200GX

200C (08670)

Leather Belt Holster for 200 Series Inductive Amplifiers

Inductive Amplifiers

Application:

Used in conjunction with any tone generator, Inductive Amplifiers permit wire and cable identification without having to make direct metallic contact with the conductor.

Features:

- All models feature powerful speaker for noisy environments, recessed on/off button control and high gain for accurate wire identification in congested cable bundles and equipment rooms

- The 200EP also includes adjustable volume control for precise identification, an LED for visual signal strength indication and recessed telephone test set connectors
- The 200GX includes all the features of the 200EP in a new rugged, ergonomically-designed housing

| Description | Cat (UPC) No. |
|---------------------|---------------|
| Inductive Amplifier | 200EP (08671) |
| Inductive Amplifier | 200GX (60557) |



200FP

U.S. Pat. No. 5,457,441; 5,574,769 and 5,577,099

Filter Probe

Application:

By selectively filtering out all 60Hz and 60Hz harmonics, the 200FP can be used with any tone generator for faster, more accurate, cable and wire identification.

Features:

- With three types of noise filtration, the Filter Probe virtually eliminates power-related noise from the tone-and-probe operation
- Slim, comfortable design for use in limited-space areas

- Recessed on/off push-button control to conserve battery life
- Adjustable sensitivity/volume control to increase accuracy
- Blended carbon/plastic tip to reduce the risk of shorting terminals

| Description | Cat (UPC) No. |
|--------------|---------------|
| Filter Probe | 200FP (08672) |



RPT-1

RPT-2

Replacement Plastic Tips for 200 Series Probes

Application:

Plastic tips perform much the same as traditional metal tips while reducing the risk of shorting terminals.

Specifications:

- Specially formulated with a carbon powder and carbon fiber blended plastic
- Tips fit 200B, 200EP, 200GX and 200FP probes
- RPT-1 comes with two pencil-style tips and two spade-style tips

| Description | Cat (UPC) No. |
|---|---------------|
| Replacement Plastic Tips for 200B, 200EP, 200FP | RPT-1 (08711) |
| Replacement Plastic Tips for 200GX | RPT-2 (60561) |

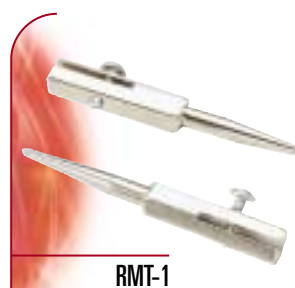
Replacement Metal Tips for 200B and 200EP Probes

Application:

Metal tips provide maximum performance when probing insulated wires or making direct metallic contact.

Specifications:

- Made of nickel-plated brass
- Tips fit 200B and 200EP probes
- Package contains two pencil-style tips



RMT-1

| Description | Cat (UPC) No. |
|--|---------------|
| Replacement Metal Tips for 200B and 200EP Probes | RMT-1 (08709) |

Classic Tone and Probe Kit



Application:

Used to identify single conductors or cables within a bundle, at a cross-connect point or at remote ends.

Specifications:

- Kit includes the 77HP High Power Tone Generator and the 200EP Inductive Amplifier in a rugged, woven polyester carrying case

701K

| Description | Cat (UPC) No. |
|----------------------------|---------------|
| Classic Tone and Probe Kit | 701K (08684) |

Professional Tone and Probe Kit



Application:

Designed for the telecom professional, this kit is for use on single conductors, twisted pairs, coax cables and de-energized electrical wiring.

Features:

- Housings are drop-tested to ensure durability

Specifications:

- Kit includes the 77GX Tone Generator and 200GX Inductive Amplifier in a rugged carrying case

711K

| Description | Cat (UPC) No. |
|---------------------------------|---------------|
| Professional Tone and Probe Kit | 711K (60558) |

Premium Tone and Probe Kit



Application:

Designed for more accurate wire identification, the 801K virtually eliminates power-related noise from the tone and probe operation.

Specifications:

- Kit includes the 77HP/6A High Power Tone Generator and 200 FP Filter Probe in a convenient Cordura® case

801K

| Description | Cat (UPC) No. |
|----------------------------|---------------|
| Premium Tone and Probe Kit | 801K (08690) |

AdapToner Kit



Application:

Designed for fast, accurate wire identification by combining the features of our tone generators and modular breakout adapter.

Specifications:

- Kit includes the AT8 Modular Breakout Tone Generator and 200EP Inductive Amplifier in a convenient carrying case

AT8K

| Description | Cat (UPC) No. |
|---------------|---------------|
| AdapToner Kit | AT8K (08694) |

LAN Toner Kit



AT8LK

Application:

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

Specifications:

- Kit includes the AT8L LAN Toner and the 200GX Inductive Amplifier in a rugged, woven polyester carrying case

| Description | Cat (UPC) No. |
|---------------|---------------|
| LAN Toner Kit | AT8LK (60584) |

CATV Cable Tone Test Kit



402K

Application:

Designed specifically for the CATV industry, this kit allows you to tone through splitters, directional couplers and traps.

Feature:

- Simple to use, the 402K provides accurate results and will eliminate long delays trying to figure out non-tagged or mis-tagged cable drops

Specifications:

- Kit includes one transmitter, one receiver, one male F-to-F connector adapter cable, one male F-to-alligator clip adapter cable and a carrying case
- Transmitter and receiver are equipped with female F-connectors
- Three methods of signal reception: electrostatic pickup for non-terminated cables, electromagnetic pickup for terminated or shorted cables and direct connection when identifying in the presence of passive devices
- In continuity mode, provides both audible tone and LED display
- Identifies the presence of AC or DC voltage on the cable under test
- Four selectable tone outputs for multiple line identification

| Description | Cat (UPC) No. |
|--------------------------|---------------|
| CATV Cable Tone Test Set | 402K (08677) |

Security and Alarm Kit



620K

Application:

Designed specifically for the security and alarm industry, the 620K provides a simple method for identifying intermittent failures (swingers) and confirming operation of switches at remote locations.

Specifications:

- To better satisfy industry requirements, we've combined the Model PE620 Tone Generator with the popular Model 200EP Inductive Amplifier in a durable woven polyester pouch

| Description | Cat (UPC) No. |
|------------------------|---------------|
| Security and Alarm Kit | 620K (08682) |



140

A-Bug™ Tone Probe and Sender

Application:

Used for pair identification, cable pair tracing and fault location in telephone, LAN and other metallic cables.

Features:

- Superior gain and dynamic range to detect tones in the full spectrum of amplitudes
- Unwanted signals are filtered out while still allowing for superior tone detection
- Glass-reinforced nylon probe tip is extremely durable
- Ergonomic design fits easily in the hand and in tight splice bundles
- Multi-purpose tone sender also tests lines for voltage, polarity and continuity

Specifications:

- Automatic-off feature
- Two Sender models are available: the 150 model features alligator clips and the 150P features popper-style clips
- Optional headphone is available for use in noisy locations

Tone Probe Kits include:

- 140 Tone Probe
- 150 or 150P Tone Sender
- Lightweight headphones
- Holster
- Two batteries

| Description | Cat (UPC) No. | Description | Cat (UPC) No. |
|---|---------------|---|---------------|
| A-Bug Tone Probe | 140 (60760) | A-Bug Tone Probe Kit (Sender w/Alligator Clips) | 240 (60780) |
| A-Bug Tone Probe – Filtered | 140D (60781) | A-Bug Tone Probe Kit (Sender w/ Popper-style Clips) | 240P (60759) |
| A-Bug Tone Sender w/ Alligator Clips | 150 (60779) | Holster for A-Bug Tone Probe | 360 (60762) |
| A-Bug Tone Sender w/ Popper-style Clips | 150P (60761) | Holster for A-Bug Tone Sender | 362 (60763) |
| A-Bug Tone Sender – Filtered | 150D (60782) | A-Bug Headphones | 361 (60778) |

Cabling Pouch



750C

Application:

Designed to hold a complete set of wiring tools including: any (one) 77 Series Tone Generator, any (one) 200 Series Inductive Amplifier, a punchdown tool, a cabling knife and scissors.

Features:

- Convenient loop to hold most telephone test sets
- Removable “parts pouch” allows you to keep small components in reach
- Made of a durable woven polyester
- Fits belts up to 5" wide

| Description | Cat (UPC) No. |
|---------------|---------------|
| Cabling Pouch | 750C (08685) |

Tone and Probe Carrying Case



700C

Application:

Allows you to build your own kit using any tone generator and 200 Series probe.

Features:

- Durable woven polyester case
- Fits belts up to 3" wide

| Description | Cat (UPC) No. |
|------------------------------|---------------|
| Tone and Probe Carrying Case | 700C (08683) |



Cable Locators

Tracker II

Application:

Traces the path and determines the depth of wires and metallic pipes on active or dead systems without having to deactivate the system.

Features:

- Lightweight receiver provides audible and visual indications of signal strength
- Transmitter output and receiver sensitivity are fully adjustable for maximum accuracy
- Transmitter offers three methods of connection: direct, inductive coupler and inductive antenna

Specifications:

- Includes transmitter assembly, receiver assembly, inductive coupler (clamp), built-in inductive antenna, two 8' test leads (2.4 m) with heavy-duty alligator clips and a durable polyethylene case
- High frequency transmitter provides range up to 4,000' (1,219 m) and depths up to 7' (2 m)
- Receiver is 32" long (813 mm)
- Battery operated (eight AA and one 9V battery is included)
- Molded carrying case included



501

| Description | Cat (UPC) No. |
|-------------|---------------|
| Tracker II | 501 (08662) |



HS-1 (08695)

Optional headset is available for use in high-traffic areas or other noisy environments.

Buried Line Locator

Features:

- LED and LCD signal strength indicators make it quick and easy to find exact line location
- Lightweight and ergonomically balanced
- Automatic signal boost makes it easy to trace lines, even those with very weak signals
- Receiver may be used in active or passive mode
- Receiver locates multiple passive frequencies with a single setting

- Receiver automatically locks out passive range when it detects a transmitter signal, reducing the chance of tracing other lines carrying weaker signals
- Microprocessor-based circuitry delivers increased accuracy and features auto-gain control in all environments

Specifications:

- Traces 20' (6 m) underground and provides depth readings up to 15'
- Transmitter can be connected to live lines up to 600V
- Molded carrying case included



BLL-200

| Description | Cat (UPC) No. |
|---------------------|-----------------|
| Buried Line Locator | BLL-200 (07796) |

Pulser

Application:

Identifies the exact location of even the smallest breaks in insulation by "pulsing" a high-voltage signal that radiates into the earth at the location of the faults. With the A-frame mounted receiver, a visual analog meter points the way to the source of the voltage.

Features:

- Multiple faults on a single wire can be identified indicating the need to replace instead of repair
- Extra-long test leads feature heavy-duty alligator clips for use on multiple cable types

Specifications:

- Includes a rechargeable transmitter, receiver, A-frame, ground stake, 120V charger and a 12V DC (cigarette lighter) adapter
- Battery operated (one 12V and one 9V battery is included)
- Molded carrying case included



PE2003

Great complement to any buried cable locator.

| Description | Cat (UPC) No. |
|-------------|----------------|
| Pulser | PE2003 (08666) |

Wire Finder/Mini Locator

Application:

Used to trace energized or degenerated wires in walls and drop ceilings.

Features:

- Determines the approximate depth of a wire before digging begins
- Transmitter and receiver are fully-adjustable for accurate locating
- Reliable results on buried cables to depths of 3' and lengths up to 1000'
- Quick-change test leads for use in any industry, even international power outlets
- Voltage protection allows use on live AC circuits

- Automatic shutoff prevents accidental battery discharge
- Both the transmitter and receiver are housed in a durable, molded carrying case with a quick reference operation guide on the inside of the lid
- Compact design
- Easy-to-understand operations

Specifications:

- Battery operated (two 9V batteries included)
- Molded carrying case included



508S

| Description | Cat (UPC) No. |
|--------------------------|---------------|
| Wire Finder/Mini Locator | 508S (08678) |

Uni Marker™



Application:

Electronically marks buried facilities for later relocation.

Features:

- Rugged polyethylene case ensures years of useful life
- Small size and flat design attach easily to non-metallic utility box lids, hand holes and other buried enclosures

- Location is simple with any modern marker locator
- Range is 25% more than other similar-style markers
- Signal peak ensures location within inches of the marker

Specifications:

- Color coded by utility application

| Application | Color | Frequency | Cat (UPC) No. |
|-------------|--------------|-----------|---------------|
| Power | Red | 169.8kHz | 170 (60771) |
| Water | Blue | 145.7kHz | 171 (60772) |
| Sanitary | Green | 121.6kHz | 172 (60773) |
| Telephone | Orange | 101.4kHz | 173 (60774) |
| Gas | Yellow | 83.0kHz | 174 (60775) |
| Cable TV | Orange/Black | 77.0kHz | 175 (60776) |

Omni Marker™



Application:

Electronically marks and relocates buried facilities.

Features:

- Unique design produces a uniform, spherical RF field in every direction
- Easily located up to 5' away with any modern marker locator

- Wider field with a signal peak directly above the marker provides precise location
- Requires no particular orientation when buried
- Greater range than standard 4" ball markers
- High-reliability design lasts as long as your buried plant

Specifications:

- Color coded by utility application

| Application | Color | Frequency | Cat (UPC) No. |
|-------------|--------------|-----------|---------------|
| Power | Red | 169.8kHz | 160 (60765) |
| Water | Blue | 145.7kHz | 161 (60766) |
| Sanitary | Green | 121.6kHz | 162 (60767) |
| Telephone | Orange | 101.4kHz | 163 (60768) |
| Gas | Yellow | 83.0kHz | 164 (60769) |
| Cable TV | Orange/Black | 77.0kHz | 165 (60770) |



Kits



Clip-On Twisted Pair Kit



46010

Application:

Provides the most essential tools for terminating voice and data cabling right at the installer's side.

Features:

- Rugged Cordura® pouch is built to last, lowering replacement costs
- Heavy-duty metal clip snaps over the installer's belt so that the kit can be removed without removing the belt
- Side holsters allow the installer to carry a flashlight and a favorite screwdriver

| Description | Cat (UPC) No. |
|--|----------------|
| Clip-On Twisted Pair Kit | 46010 |
| <i>Kit contents may be purchased separately:</i> | |
| Punchdown Tool with 110 Blade | 46023 |
| Electrician's Scissors | PT-T02 (08708) |
| Twisted Pair Stripper | 45579 |
| Pocket-light Flashlight | 46500 |
| Pouch | 45272 |
| <i>Replacement tool and blades are also available:</i> | |
| Punchdown Tool | 46020 |
| Punchdown Tool with 66 Blade | 46021 |
| 66 Style Punchdown Blade | 46022 |
| 110 Style Punchdown Blade | 46024 |
| BIX Style Punchdown Blade | 46025 |
| Krone Style Punchdown Blade | 46026 |

Cable TV Coax Termination Kit



45466

Application:

Contains the tools and connectors necessary for installing a Cable TV system.

Features:

- Durable Cordura Plus zipper case protects and organizes tools and includes a see-through pouch for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents

| Description | Cat (UPC) No. |
|--|---------------|
| Cable TV Coax Termination Kit | 45466 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| KWIK STRIPPER™ CATV Stripper, 2 Level Stripper for RG6, RG59, RG7, RG11 | 45578 |
| KWIK CYCLE® 9" Crimp Frame with Die Set for F-style Connectors on RG6 and RG59 Cable | 46801 |
| F Connector Insertion Tool | 45516 |
| F-style Crimp-on Connectors for Quad-shield RG6 (Qty. 50) | 45324 |
| Zipper Case | 45476 |

Cable TV Coax Termination and Test Kit



45467

Application:

Contains the tools, connectors and tester for installing and testing a Cable TV system.

Features:

- Cable TV tone test set uses both electromagnetic and electrostatic pickup to tone through splitters, directional couplers and taps
- Durable Cordura Plus zipper case protects and organizes tools and includes a see-through pouch for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents

| Description | Cat (UPC) No. |
|---|---------------|
| Cable TV Coax Termination and Test Kit | 45467 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| KWIK STRIPPER CATV Stripper, 2 level stripper for RG6, RG59, RG7, RG11 | 45578 |
| KWIK CYCLE 9" Crimp Frame with Die Set for F-style Connectors on RG6 and RG59 Cable | 46801 |
| F Connector Insertion Tool | 45516 |
| F-style Crimp-on Connectors for Quad-shield RG6 (Qty. 25) | 45323 |
| Cable TV Tone Generator | 402T (60376) |
| Cable TV Tone Receiver | 402R (60377) |
| Zipper Case | 45477 |

Coax/Twisted Pair LAN Termination and Test Kit

Application:

Provides the essential tools, connectors and testers necessary for maintaining a Local Area Network, twisted pair cabling and coax Ethernet (Thinnet) cabling.

Features:

- Durable Cordura Plus carrying case protects and organizes tools and includes a see-through pouch for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents
- Case has durable handles and eyelets for adding a shoulder strap



45468

| Description | Cat (UPC) No. |
|--|---------------|
| Coax/Twisted Pair LAN Termination and Test Kit | 45468 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| KWIK STRIPPER Twisted Pair Stripper | 45579 |
| Punchdown Tool with 110 Blade | 46023 |
| 66 Style Punchdown Blade | 46022 |
| Telephone Ratchet Crimper for 4-, 6- and 8-position Modular Plugs | 45575 |
| KWIK STRIPPER Coax Stripper, 3 Level | 45577 |
| KWIK CYCLE 9" Crimp Frame with Die Set for BNC-style Connectors on Thinnet RG8 Cable | 46800 |
| Center Conductor Cutter for Coax Cable | 45481 |
| AdapToner Modular Breakout Tone Generator | AT8 (08693) |
| Inductive Amplifier Probe | 200EP (08671) |
| BNC-style Coax Connectors for RG58 Thinnet Plenum Cable (Qty. 20) | 45781 |
| Category 5 Connectors RJ45, 8 Position (Qty. 50) | 45760 |
| Carrying Case | 45478 |

Voice and Category 5 Data Termination Kit



45469

Application:

Includes the tools and connectors necessary for installing a voice and data network.

Features:

- Durable Cordura® Plus zipper case protects and organizes tools and includes a see-through pouch for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents

| Description | Cat (UPC) No. |
|---|---------------|
| Voice and Category 5 Data Termination Kit | 45469 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| KWIK STRIPPER™ Twisted Pair Stripper | 45579 |
| Punchdown Tool with 110 Blade | 46023 |
| 66 Style Punchdown Blade | 46022 |
| Telephone Ratchet Crimper for 4-, 6- and 8-Position Modular Plugs | 45575 |
| Category 5 Connectors RJ45, 8 Position (Qty. 50) | 45760 |
| Flat Cable Connectors RJ12, 6 Position, 6 Conductor (Qty. 50) | 45751 |
| Zipper Case | 45479 |

Category 5 Data Termination and Test Kit



45470

Application:

Includes the tools, connectors and testers necessary for installing a Cat 5 data network.

Features:

- Durable Cordura Plus zipper case protects and organizes tools and includes a see-through pouch for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents

| Description | Cat (UPC) No. |
|---|---------------|
| Category 5 Data Termination and Test Kit | 45470 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| KWIK STRIPPER Twisted Pair Stripper | 45579 |
| Punchdown Tool with 110 Blade | 46023 |
| Telephone Ratchet Crimper for 4-, 6- and 8-position Modular Plugs | 45575 |
| Category 5 Connectors RJ45, 8 Position (Qty. 50) | 45760 |
| Modular Cable Tester Transmitter with Tone Generator | 468T (60379) |
| Modular Cable Tester Receiver | 468R (60380) |
| Zipper Case | 45485 |

Professional Installation Kit

Application:

Includes all the tools, connectors and testers for installing and maintaining most types of communications cabling including voice, data and cable TV and coax Ethernet networks.

Features:

- Durable Cordura Plus carrying case protects and organizes tools and includes see-through pouches for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents
- Case has durable handles and eyelets for adding a shoulder strap



45471

| Description | Cat (UPC) No. |
|--|---------------|
| Professional Installation Kit | 45471 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| KWIK STRIPPER Twisted Pair Stripper | 45579 |
| Punchdown Tool with 110 Blade | 46023 |
| 66 Style Punchdown Blade | 46022 |
| Telephone Ratchet Crimper for 4-, 6- and 8-position Modular Plugs | 45575 |
| AdapToner Modular Breakout Tone Generator | AT8 (08693) |
| Inductive Amplifier Probe | 200EP (08671) |
| PairMapper™ Twisted Pair Fault Tester | 45280 |
| PairMapper Remote Terminators 2, 3, 4 | 45275 |
| KWIK STRIPPER Coax Stripper, 3 Level | 45577 |
| KWIK STRIPPER 2-Level Coax Cartridge | 45040 |
| KWIK CYCLE® 9" Crimp Frame with Die Set for F-style Connectors on RG6 and RG59 Cable | 46801 |
| KWIK CYCLE Die Set for BNC-style Coax Connectors on Thinnet RG8 Cable | 46824 |
| Center Conductor Cutter for Coax Cable | 45481 |
| F Connector Insertion Tool | 45516 |
| F-style Crimp-on Connectors for Quad-shield RG6 (Qty. 50) | 45324 |
| Category 5 Connectors RJ45, 8 Position (Qty. 50) | 45760 |
| Flat Cable Connectors RJ12, 6 Position, 6 Conductor (Qty. 50) | 45751 |
| Carrying Case | 45486 |

Telecom Technician Pouch



45472

Application:

Contains all the essential tools and testers to install and maintain the voice network.

Features:

- Durable woven polyester pouch fits any belt up to 5" wide and keeps all the tools conveniently accessible

| Description | Cat (UPC) No. |
|--|----------------|
| Telecom Technician Pouch | 45472 |
| <i>Kit contents may be purchased separately:</i> | |
| Punchdown Tool with 110 Blade | 46023 |
| 66 Style Punchdown Blade | 46022 |
| Electrician's Scissors | PT-T02 (08708) |
| Cable Splicer's Knife | PT-T01 (08707) |
| Tone Generator | 77HP (08687) |
| Inductive Amplifier Probe | 200EP (08671) |
| Telephone Test Set | PE930 (60487) |
| Cabling Pouch | 750C (08685) |

Telecom Field Technician Kit

Application:

Contains all the essential tools and testers to maintain a telecommunications network.

Features:

- Top quality digital multimeter and telephone test set make troubleshooting a voice network easy
- DMM features an industry-leading lifetime warranty
- Insulated screwdrivers protect the technician up to 10,000V

- Durable Cordura® Plus carrying case protects and organizes tools and includes see-through pouches for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents
- Case has durable handles and eyelets for adding a shoulder strap



45473

| Description | Cat (UPC) No. |
|--|----------------|
| Telecom Field Technician Kit | 45473 |
| <i>Kit contents may be purchased separately:</i> | |
| Cable Cutter | 45482 |
| Punchdown Tool with 110 Blade | 46023 |
| 66 Style Punchdown Blade | 46022 |
| Electrician's Scissors | PT-T02 (08708) |
| Cable Splicer's Knife | PT-T01 (08707) |
| Tone Generator | 77HP (08687) |
| Inductive Amplifier Probe | 200EP (08671) |
| Telephone Test Set | PE930 (60487) |
| TurTEL6 Modular Adapter and Polarity Tester | 46040 |
| Digital Multimeter | DM-800 (07549) |
| Pocket-light Flashlight | 46500 |
| Wire Strippers/Cutter, 10-18 AWG solid, 12-20 AWG stranded | 1955 (06857) |
| Insulated Screwdrivers, 6-piece Set, 1000V Rating | 45439 |
| Carrying Case | 45487 |

Fiber Optic Cut and Strip Kit



45657

Application:

Includes three basic tools for cutting and stripping optical fiber cables in a durable Cordura Plus zipper case.

| Description | Cat (UPC) No. |
|--|---------------|
| Fiber Optic Cut and Strip Kit | 45657 |
| <i>Kit contents may be purchased separately:</i> | |
| Fiber Optic Kevlar® Shears | 45586 |
| Stripper for Cable Jackets | 1955 (06857) |
| Fiber Optic Buffer Stripper | 45589 |

Fiber Optic Hand Tools Kit



45655

Application:

Contains the most commonly used fiber optic termination tools in a durable Cordura Plus zipper case.

| Description | Cat (UPC) No. |
|---|---------------|
| Fiber Optic Hand Tools Kit | 45655 |
| <i>Kit contents may be purchased separately:</i> | |
| Kevlar Shears | 45586 |
| Stripper for Cable Jackets | 1955 (06857) |
| Buffer Stripper | 45589 |
| Carbide-tipped Scribe | 45593 |
| KWIK CYCLE® 8" Crimp Frame with 0.151", 0.178", 0.213" Hex Cavities | 45637 |
| Fiber Optic Inspection Microscope | 45651 |
| Stainless Steel Polishing Puck | 45599 |
| Resilient Polishing Pad, 3" x 8" | 45612 |
| Zipper Case | 45644 |

Fiber Optic Consumables Kit



45656

Application:

Contains the most commonly used consumables for epoxy and polish fiber optic terminations.

| Description | Cat (UPC) No. |
|---|---------------|
| Fiber Optic Consumables Kit | 45656 |
| <i>Kit includes the following consumable items which are not sold separately:</i> | |
| 50 Sheets Polishing Paper, 1 micron | |
| 50 Sheets Polishing Paper, 5 micron | |
| 10 ml (0.34 oz.) Opticure Adhesive | |
| 26 ml (0.9 oz.) Opticure Primer | |
| 10 Syringes | |
| 10 Needle Tips | |
| 100 Lint-free Wipes | |
| 10 Alcohol Wipes | |

Fiber Optic Termination Kit

Application:

Contains all of the tools and consumable materials necessary for epoxy and polish connector terminations.*

Features:

- Durable Cordura® Plus carrying case protects and organizes tools and includes see-through pouches for storing connectors
- Outside pockets provide convenient storage of instruction manuals or worksite documents
- Case has durable handles and eyelets for adding a shoulder strap



| Description | Cat (UPC) No. |
|-------------|---------------|
|-------------|---------------|

| | |
|-----------------------------|-------|
| Fiber Optic Termination Kit | 45658 |
|-----------------------------|-------|

Kit contents listed below may be purchased separately:

| | |
|---|--------------|
| Kevlar® Shears | 45586 |
| Stripper for Cable Jackets | 1955 (06857) |
| Buffer Stripper | 45589 |
| Carbide-tipped Scribe | 45593 |
| KWIK CYCLE® 8" Crimp Frame with 0.151", 0.178", 0.213" Hex Cavities | 45637 |
| Fiber Optic Inspection Microscope | 45651 |
| Stainless Steel Polishing Puck | 45599 |
| Resilient Polishing Pad, 3" x 8" | 45612 |
| Carrying Case | 45639 |

Kit includes the following consumable items which are not sold separately:

- 50 Sheets Polishing Paper, 0.3 micron
- 50 Sheets Polishing Paper, 1 micron
- 50 Sheets Polishing Paper, 5 micron
- 10 ml (0.34 oz.) Opticure Adhesive
- 26 ml (0.9 oz.) Opticure Primer
- 10 Syringes
- 10 Needle Tips
- 100 Lint-free Wipes
- 10 Alcohol Wipes
- 1 Alcohol Bottle
- 1 Water Bottle
- 1 Fiber Debris Disposal Container
- 1 Pair Safety Glasses
- 1 Plastic Utility Box
- 1 Felt-tipped Marker

45658

*Some connector manufacturers may require alternative tools or materials.



Copper Tools

Center Conductor Cutter



45481

Application:

Precisely trims the center conductor of coaxial cable to a standard length of 3/16" (5 mm).

Features:

- Cushioned-grip handle for comfortable use
- Heat-treated for long life

Specifications:

- Stamped from high-carbon tool steel
- Rust-resistant black oxide finish

| Description | Cat (UPC) No. |
|-------------------------|---------------|
| Center Conductor Cutter | 45481 |

Wire Cutter, 30-10 AWG



1915

Application:

Cuts 30-10 AWG (0.08-6 mm²) copper wire.

Features:

- Small, economical wire cutter fits in any tool belt
- Cushioned-grip vinyl handle for comfortable use
- Heat-treated for long life

Specifications:

- Stamped and precision ground from high-carbon tool steel
- Return spring
- Pivot joints have hardened steel bushings
- Rust-resistant black oxide finish

| Description | Cat (UPC) No. |
|------------------------|---------------|
| Wire Cutter, 30-10 AWG | 1915 (31892) |

Cable Cutter, 8 AWG



45482

Application:

Designed to cut solid, stranded wire up to 8 AWG (10 mm²) and multi-conductor cable up to 1/2" (12.7 mm) in diameter.

Features:

- Curved cutting blades ensure an easy cut
- Economically priced
- Cushioned-grip handle for comfortable use
- Heat-treated for long life

Specifications:

- Stamped and precision ground from high-carbon tool steel
- Return spring
- Locking latch
- Rust-resistant black oxide finish

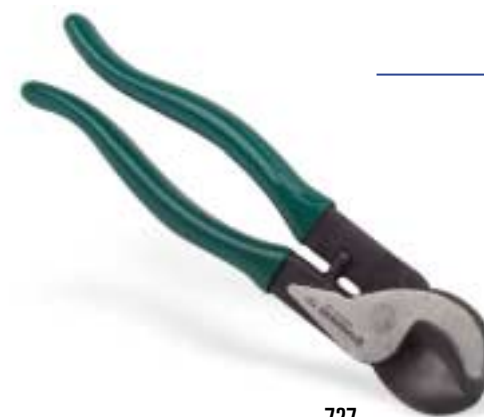
| Description | Cat (UPC) No. |
|---------------------|---------------|
| Cable Cutter, 8 AWG | 45482 |



45471

Professional Installation Kit

This complete kit includes our 8 AWG Cable Cutter plus all the tools, connectors and testers for installing and maintaining most types of communications cabling. See page 52 for details on our Professional Installation Kit.



727

Cable Cutter

Application:

Easily cuts heavier copper and aluminum cables up to 2/0 (70 mm²).

Features:

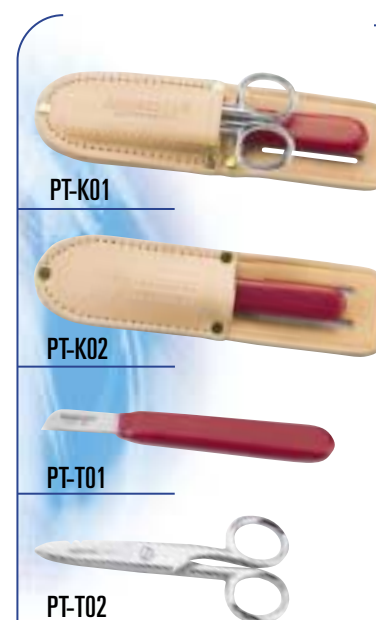
- Plastic-coated, high-leverage handles for easier cuts
- Heat-treated for long life

Specifications:

- Made of heavy-duty forged steel
- Precision ground, shear action, curved cutting blades
- Rust-resistant black oxide finish
- Made in the USA

| Description | Cat (UPC) No. |
|--------------|---------------|
| Cable Cutter | 727 (31291) |

Cable Splicer's Knife and Electrician's Scissors



PT-K01

PT-K02

PT-T01

PT-T02

Application:

Cuts cable, telephone wire and strips insulation.

Features:

- Tough, tempered steel knife blade holds its edge longer
- Full-sized knife handle provides greater comfort

Specifications:

- Knife has a coping-type, short blade made of the finest cutlery steel
- Scissors have an upper blade with two stripping notches to strip most insulations from 19-24 AWG

| Description | Cat (UPC) No. |
|---|----------------|
| Scissors and Knife Kit with Two-pocket Pouch | PT-K01(08704) |
| Knife Tool Kit with One-pocket Pouch | PT-K02 (08705) |
| Scissors Tool Kit with One-pocket Pouch (not shown) | PT-K03 (08706) |
| Cable Splicer's Knife | PT-T01 (08707) |
| Electrician's Scissors | PT-T02 (08708) |

The TERMINATORS® Wire Strippers/Cutter



1916

Features:

- Precision ground blades ensure consistent stripping and cutting
- Heat-treated for long life
- Cushioned-grip vinyl handle for comfortable use

Specifications:

- Serrated nose grip for wire pulling and straightening
- Stamped from high-carbon tool steel
- Pivot joints have hardened steel bushings
- Rust-resistant black oxide finish

| Description | Cat (UPC) No. |
|--|---------------|
| 20-10 AWG (0.8 to 2.6 mm dia.) Solid Wire | 1916 (31891) |
| 26-16 AWG (0.4 to 1.3 mm dia.) Stranded Wire | 1917 (31890) |
| 30-22 AWG (0.25 to 0.64 mm dia.) Solid Wire | 1918 (31889) |

Pro Wire Strippers



1950



1955

Application:

Strips the outer jacket off both solid and stranded wire.

Features:

- Machined stripping stations with a positive stop provide precise stripping diameters
- Ergonomically designed, extra-long cushioned handles add superior comfort and reduce hand fatigue

- Long curved cutter blades reduce force required by 25% and can cut NM in a single cut

- Lock tab protects cutting edges during storage

Specifications:

- Pliers nose for working with small nuts and pulling wire
- Hole in jaws for looping wires
- Opening stop prevents spring from disengaging
- Easy-to-read graphics
- Cuts screws

| Description | Cat (UPC) No. |
|----------------------------------|---------------|
| Pro Wire Stripper 10-18 AWG | 1950 (06852) |
| Pro Wire Stripper 22-32 AWG | 1951 (06853) |
| Pro Plus Wire Stripper 10-18 AWG | 1955 (06857) |

KWIK STRIPPER™ Flat Telephone Cable Cutter/Stripper



Application:

Designed to cut and strip flat modular telephone cables (Silver Satin).

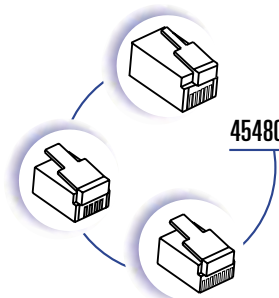
Features:

- Built-in cable stop/guide for consistent strip length
- Heat-treated for long life
- Cushioned-grip vinyl handle for comfortable use

Specifications:

- 2- to 10- conductor capacity
- Stamped from high-carbon tool steel
- Rust-resistant black oxide finish

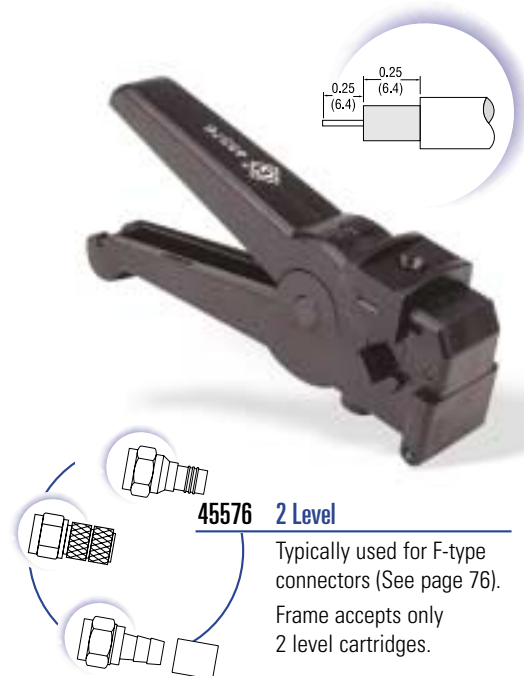
| Description | Cat (UPC) No. |
|--|---------------|
| KWIK STRIPPER Flat Telephone Cable Cutter/Stripper | 45480 |



45480

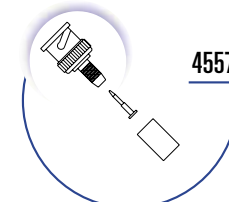
Typically used for Modular Plug Connectors (See page 77).

KWIK STRIPPER Coax Stripper — 2 Level and 3 Level



45576 2 Level

Typically used for F-type connectors (See page 76). Frame accepts only 2 level cartridges.



45577 3 Level

Typically used for BNC-type connectors (See page 75). Frame accepts both 2 and 3 level cartridges.

Applications:

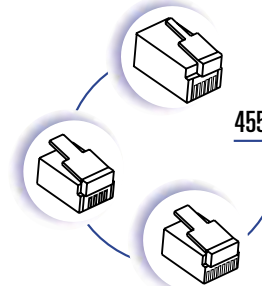
- Designed to provide precise, repeatable strips consistently
- Prepares RG58, RG59, RG62, RG6 and many other types of coax cable
- Strips braid and dielectric to 1/4" (6.4 mm)

Features:

- Blades are easily replaced in the field
- Blade adjustment for cutting depth
- Replaceable and interchangeable blade cassettes

| Description | Cat (UPC) No. |
|---------------------------------------|---------------|
| KWIK STRIPPER Coax Stripper — 2 Level | 45576 |
| KWIK STRIPPER Coax Stripper — 3 Level | 45577 |
| Replacement Cartridge — 2 Level | 45040 |
| Replacement Cartridge — 3 Level | 45039 |

KWIK STRIPPER Twisted Pair Stripper



45579

Typically used for Modular Plug Connectors (See page 77).

Application:

No tool is better for trimming the jacket from twisted pair cable without damaging the individual conductors.

Features:

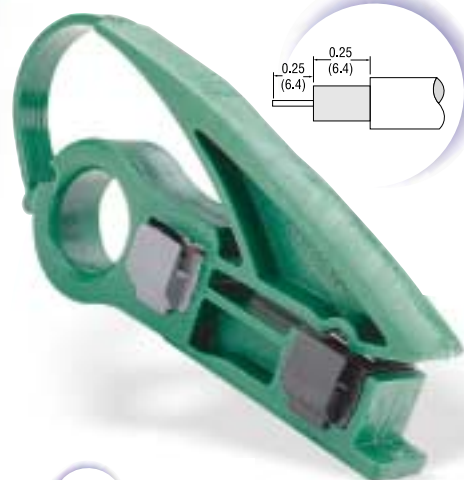
- Blade depth adjustment ensures precise cutting depth
- Blade penetration controlled by tension loop

Specifications:

- Strip length gauge
- Made in the USA

| Description | Cat (UPC) No. |
|-------------------------------------|---------------|
| KWIK STRIPPER Twisted Pair Stripper | 45579 |

KWIK STRIPPER™ CATV Cable Stripper



Application:

Designed for the professional CATV cable installer, this stripper is perfect for high volume and uses replaceable stripping cartridges for RG6, RG59, RG11 and RG7 CATV cables.

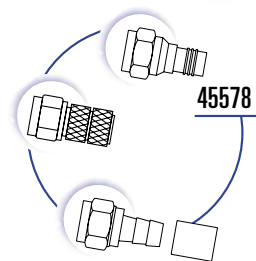
Features:

- Pre-measured stops eliminate time-consuming measuring and trimming
- No adjustments needed
- Spare cartridge holder is conveniently built into the tool

Specifications:

- Included with the tool, the RG6/RG59 cartridge strips cable jacket and dielectric to ¼" (6.4 mm)
- Included with the tool, the RG11/RG7 cartridge strips cable jacket and dielectric to ¼" (6.4 mm)
- Extra-large finger hole
- Made in the USA

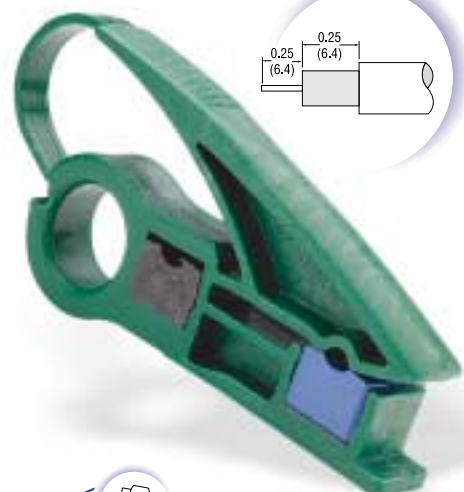
| Description | Cat (UPC) No. |
|-----------------------------------|---------------|
| KWIK STRIPPER CATV Cable Stripper | 45578 |
| Replacement Cartridge RG6/RG59 | 45580 |
| Replacement Cartridge RG11/RG7 | 45581 |



45578

Typically used for F-type connectors (See page 76).

KWIK STRIPPER CATV/UTP Stripper



Application:

Used for both unshielded twisted pair (UTP) and coaxial cabling, this tool reduces the number of tools needed without any adjustments.

Features:

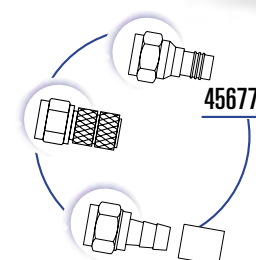
- Switching from four pair UTP to RG6 or RG59 is simple – just change cartridges
- Cartridges are color-coded for quick identification; yellow for UTP and black for coax
- Pre-measured stops eliminate time-consuming measuring and trimming

- UTP cartridge strips four-pair UTP without scoring the individual conductors
- Spare cartridge holder is conveniently built into the tool

Specifications:

- Included with the tool, the RG6/RG59 cartridge strips the cable jacket and dielectric to ¼" (6.4 mm)
- Extra-large finger hole
- Made in the USA

| Description | Cat (UPC) No. |
|--|---------------|
| KWIK STRIPPER CATV/UTP Stripper with Both Cartridges | 45677 |
| Replacement Cartridge UTP | 45667 |
| Replacement Cartridge RG6/RG59 | 45580 |
| Replacement Cartridge RG11/RG7 | 45581 |



45677

Typically used for F-type connectors (See page 76).
The most versatile stripper in the industry.



46020

Punchdown Tool

Applications:

- Inserts wire for a corrosion-resistant termination and trims off excess wire
- Terminates 66, 110, BIX and Krone cross-connect and wall jacks

Features:

- Spring loaded for fast, low-effort wire seating and termination
- Internal impact mechanism eliminates jamming for longer, trouble-free service life

Specifications:

- Adjustable low- and high-impact force settings
- Bayonet-style blade locking mechanism
- Neoprene pad for shock absorption
- Spare blade storage in the handle
- Color-coded yellow on the cut side of tool

| Description | Cat (UPC) No. |
|----------------------------|---------------|
| Punchdown Tool Only | 46020 |
| Punchdown Tool w/66 Blade | 46021 |
| Punchdown Tool w/110 Blade | 46023 |

Replacement Blades for the Punchdown Tool



46022



46024



46025



46026

Features:

- Cut side labeled to eliminate costly punching errors
- Made of high-carbon tool steel, heat-treated and precision ground for long life

Specifications:

- Reversible blades for seating/cut or seating only for jumper wires
- Rust-resistant finish

| Description | Cat (UPC) No. |
|-------------------|---------------|
| 66 Style Blade | 46022 |
| 110 Style Blade | 46024 |
| BIX Style Blade | 46025 |
| Krone Style Blade | 46026 |



46010

Clip-On Twisted Pair Kit

Our Clip-On Twisted Pair Kit comes with all the tools necessary for terminating voice and data cable including a Punchdown Tool with 110 blade. See page 49 for details.

Premier Modular Crimper



Application:

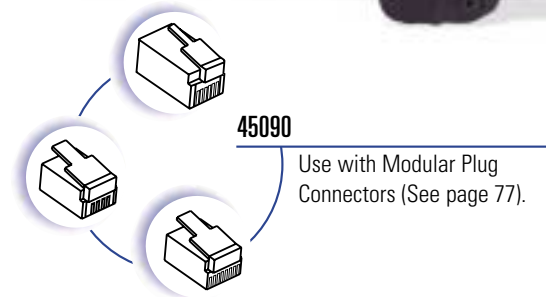
Use with RJ11, RJ22, RJ45, RJ45 10-position and DEC MMJ offset modular plugs.

Features:

- Full-cycle ratchet mechanism provides consistent, quality terminations every cycle
- Straight action ensures uniform crimp

Specifications:

- Built-in wire cutter and stripper
- Color-coded, interchangeable crimping dies are available



| Description | Cat (UPC) No. |
|---|---------------|
| Mod Plug Crimper Frame Only | 45090 |
| Mod Plug Crimper with RJ11 Crimp Die | 45097 |
| Mod Plug Crimper with RJ45 Crimp Die | 45098 |
| RJ11 (Blue) Crimp Die Only | 45094 |
| RJ22 (Red) Crimp Die Only | 45092 |
| RJ45 (Yellow) Crimp Die Only | 45091 |
| RJ45 10-Position (White) Crimp Die Only | 45095 |
| DEC Offset MMJ Crimp Die Only | 45093 |

Coax Connector Insertion Tool

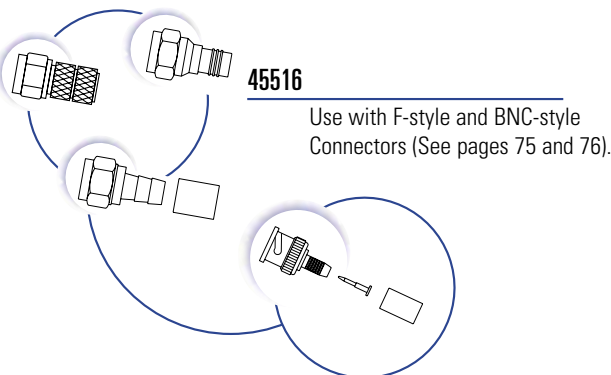


Application:

Used in CATV applications, the Insertion Tool holds F- and BNC-style connectors securely in place allowing the installer to seat the connector properly on the cable.

Features:

- Prevents injury on center conductor
- Screwdriver bit can be removed to allow the ratcheting screwdriver to be used with standard bits
- Screwdriver bit can be purchased separately for use in standard ratcheting screwdrivers
- BNC screwdriver bit sold separately for use with BNC connectors



| Description | Cat (UPC) No. |
|--|---------------|
| Coax Connector Insertion Tool with F-style Connector Bit | 45516 |
| Replacement Bit F-style Connector | 45517 |
| Replacement Bit BNC-style Connector | 45518 |

Telephone Ratchet Crimper



Application:

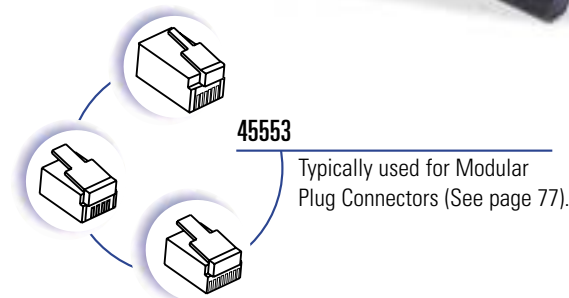
Combination tool terminates RJ11 6P4C, RJ12 6P6C and RJ45 8P8C modular style plugs.

Features:

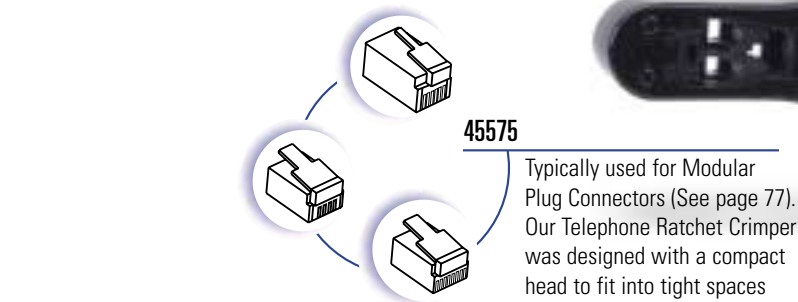
- No need to change crimping dies
- Full-cycle ratchet mechanism provides consistent, quality terminations every cycle
- Straight action ensures uniform crimp

Specifications:

- Small, compact design
- Built-in wire cutter and stripper
- All-steel frame has rust-resistant, black oxide finish



| Description | Cat (UPC) No. |
|---------------------------|---------------|
| Telephone Ratchet Crimper | 45553 |
| Telephone Ratchet Crimper | 45575 |



Voice and Category 5 Data Termination Kit

This kit includes our Telephone Ratchet Crimper plus other tools and connectors necessary for installing a voice and data network. Everything is conveniently organized in a durable zipper case. See page 51 for details on our Voice and Category 5 Data Termination Kit.

KWIK CYCLE® 9 Crimp Frame

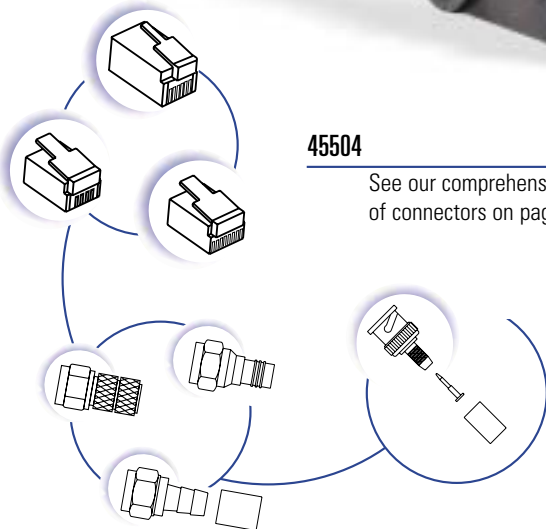


Application:

Used to manually crimp a wide variety of connectors and terminals to factory specifications.

Features:

- Frame features a precision full-cycle ratchet for accurate, repeatable crimps every cycle
- Crimp release lever improves throughput by eliminating rejected terminations due to improper connector positioning
- Frame features a tension adjustment preset at the factory for optimum performance
- High-leverage force and ergonomically-designed handle provides comfortable use
- Frame and dies are manufactured from heat-treated, hardened tool steel for superior function and long life
- All die sets are easily interchangeable with a simple screwdriver



45504

See our comprehensive line of connectors on pages 75 to 77.

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| KWIK CYCLE 9" Crimp Frame | 45504 |

KWIK CYCLE 9 Interchangeable Die Sets for Coaxial Connectors


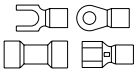

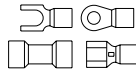



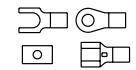
| Description | CABLE TYPE | CONNECTION | Crimp Profile & Dimensions | | | | Cat (UPC) No. | |
|---|------------|----------------------------|----------------------------|----------------|----------------|----------|---------------|--|
| | | | BRAID CRIMP | CENTER CONTACT | TOOL WITH DIE | DIE ONLY | | |
| RG58, RG59 Plenum & Non-plenum Thinwire | | BNC/TNC 50/75 OHM | 0.213 | 0.190 | 0.068 | 0.042 | 45556 | |
| RG6, RG174, 8281, AT&T 728 | | BNC/TNC/F | 0.324 | 0.178 | 0.068 | | 45582 45557 | |
| RG58/141/142/58Teflon/58 Thinnet/RG59 | | BNC/TNC/F | 0.255 | 0.213 | 0.100 0.068 | 0.052 | 45558 | |
| RG58/59/G2 Teflon | | BNC/TNC from Cambridge/AIM | 0.325 | 0.215 | 0.065 | | 45559 | |

KWIK CYCLE 9 Interchangeable Die Sets for Coaxial Connectors

| Description | CABLE TYPE | CONNECTION | Crimp Profile & Dimensions | | | | Cat (UPC) No. | |
|---------------------------------|------------|--|----------------------------|----------------|---------------|------------------|---------------|--|
| | | | BRAID CRIMP | CENTER CONTACT | TOOL WITH DIE | DIE ONLY | | |
| RG58/RG59/RG59TFE/RG6 | | BNC/TNC Cambridge/AIM, 2-piece | 0.320 | 0.210 | 0.185 | | 45562 | |
| Belden 1694A | | BNC/TNC | 0.315 | | | 0.068 | 45563 | |
| RG22B/U Twinax & others | | Twinax | 0.429 | | | 0.075 0.075 | 45574 | |
| RG59, RG62 | | AMP BNC/TNC Dual Crimp | | | 0.240 | 0.042 Sq.* | 46806 | |
| RG58/RG174/8218 | | BNC/TNC 50 and 75 OHM | | 0.213 | 0.178 | 0.068 0.042 | 45544 46826 | |
| RG6/RG59 & 8281 | | BNC/TNC & F, 50 and 75 OHM. Also 1695, 1505, 9259 and 9231 | 0.324 | 0.255 | | 0.068 0.042 | 45545 46830 | |
| RG58/RG59/G2AU | | BNC/TNC | 0.256 | 0.213 | | 0.068 | 46800 46824 | |
| RG59, RG6 | | CATV F | 0.354 | 0.324 | 0.255 | | 46801 46808 | |
| RG58 | | AMP BNC/TNC | | | | 0.218 0.042 Sq.* | 46817 | |
| RG59/RG62 | | BNC/TNC 2-piece Cambridge CP-88-2/89-2 | 0.319 | 0.239 | | 0.068 | 46822 | |
| RG8/RG11/RG213/RG216 | | N, BNC/TNC | 0.429 | | | 0.100 | 46829 | |
| RG174, 8218, AT&T 735A, Mini 59 | | BNC/TNC | | 0.178 | 0.128 | 0.068 | 46832 | |

* This center contact crimp cavity is square style for AMP connectors


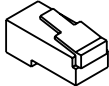



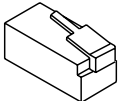

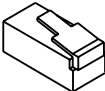


KWIK CYCLE® 9 Interchangeable Die Sets for Insulated and Non-Insulated Terminals

| Description | CONNECTION | FEATURES | Cat (UPC) No. | |
|---|--|--|---------------|----------|
| | | | TOOL WITH DIE | DIE ONLY |
|  | 22-10 AWG  | Color coded nests for easy identification Standard insulated terminals, ring tongue, spade lug, slide on and butt splices | 45500 | 45509 |
|  | 22-10 AWG  | Color coded nests for easy identification For fully insulated slide-on style connectors AMP Ultrafast™ style | 45501 | 45570 |
|  | 26-16 AWG  | For mini insulated terminals with smaller wire barrels Ring tongue, spade, slide on and butt splices | | 45565 |
|  | 22-8 AWG  | For non-insulated terminals and splices | 45505 | 45507 |

KWIK CYCLE® 9 Interchangeable Die Sets for Open Barrel Contacts

| Description | CONNECTION | FEATURES | Cat (UPC) No. | |
|---|---|---|---------------|----------|
| | | | TOOL WITH DIE | DIE ONLY |
|  | 22-10 AWG (0.3 to 6 mm ²)  | Open barrel, non-insulated terminals, ring tongue, spade and slide-on style | 45506 | 45508 |

KWIK CYCLE® 9 Interchangeable Die Sets for Modular Plugs

| Description | CONNECTION | FEATURES | Cat (UPC) No. | |
|---|--|--|---------------|----------|
| | | | TOOL WITH DIE | DIE ONLY |
|  | RJ45 8-position  | AMP modular plug connectors | 45540 | 46117 |
|  | RJ11 4- and 6-position  | AMP modular plug connectors | 45541 | 46118 |
|  | RJ11 6-position  | DEC MMJ style connectors with offset release tab | | 46119 |
|  | RJ45 10-position  | Modular plug connectors | | 45571 |
|  | Hand set plug 4-position  | | | 45566 |

 **GREENLEE**
DATA • SIGNAL • VOICE
by WESTINGHOUSE



Fiber Tools

Fiber Optic Kevlar® Shears



45586

Application:

Easily cuts through DuPont Kevlar or other aramid yarn.

Features:

- Serrated blade prevents slipping
- High-leverage handles facilitate cutting
- Cushioned-grip handle for comfortable use
- Manufactured from hot-forged, high-carbon steel for long life

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| Fiber Optic Kevlar Shears | 45586 |

Ceramic Kevlar Cutter



45483

Application:

Quickly and precisely trims the Kevlar strength member in fiber optic cable.

Features:

- Ceramic blades never need sharpening and have a long life
- Handle is tough and durable

| Description | Cat (UPC) No. |
|-----------------------|---------------|
| Ceramic Kevlar Cutter | 45483 |

Kevlar is a registered trademark of E.I. Dupont, Inc.

Fiber Optic Carbide-tipped Scribe



45593

Application:

Provides consistently good cleaves.

Features:

- 30° wedge tip is made of carbide to ensure long life
- Made in the USA

| Description | Cat (UPC) No. |
|-----------------------------------|---------------|
| Fiber Optic Carbide-tipped Scribe | 45593 |

Pocket Cable Stripper



1900

Application:

Specifically designed for stripping power and telecommunications cables from 3/16" to 1-1/8" in diameter (4.5 mm to 29 mm).

Feature:

- Easy blade depth adjustment

Specification:

- 90° blade rotation allows longitudinal, circular and spiral slitting of insulation

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| Pocket Cable Stripper | 1900 (45824) |
| Replacement Cutting Blade | 07915 |

Pocket Cable Stripper



1901

Application:

Specifically designed for stripping power and telecommunications cables from 3/4" to 1-1/2" in diameter (19 mm to 40 mm).

Features:

- Strips solid conductor, stranded conductor and multiple conductor cables
- Easy blade depth adjustment

Specification:

- Blade rotates for circular, longitudinal and spiral cuts

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| Pocket Cable Stripper | 1901 (45823) |
| Replacement Cutting Blade | 07915 |

Fiber Optic Buffer Stripper



45589

Application:

Easily removes the buffer from both 250 and 900 micron cables.

- Will not scratch or nick glass or fiber

Features:

- Preset at the factory — no adjustments required
- Cushioned-grip ergonomic handles for comfortable use

Specifications:

- 1.0 mm diameter stripping hole strips most fiber jackets
- Made in the USA

| Description | Cat (UPC) No. |
|-----------------------------|---------------|
| Fiber Optic Buffer Stripper | 45589 |

Pro Plus Wire Stripper



1955

Application:

Strips the outer jacket off fiber optic cable.

- Lock tab protects cutting edges during storage

Features:

- Extra-long, curved and cushioned handles add comfort and reduce hand fatigue

Specifications:

- Made in the USA

| Description | Cat (UPC) No. |
|-----------------------------------|---------------|
| Pro-Plus Wire Stripper, 10-18 AWG | 1955 (06857) |

KWIK CYCLE® 9 Crimp Frame



45504

Application:

Used to manually crimp a wide variety of connectors and terminals to factory specifications.

Features:

- Frame features a precision full-cycle ratchet for accurate, repeatable crimps every cycle
- Crimp release lever improves throughput by eliminating rejected terminations due to improper connector positioning
- Frame features a tension adjustment preset at the factory for optimum performance
- High-leverage force and ergonomically-designed handle provides comfortable use
- Frame and dies are manufactured from heat-treated, hardened tool steel for superior function and long life
- All die sets are easily interchangeable with a simple screwdriver

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| KWIK CYCLE 9" Crimp Frame | 45504 |

KWIK CYCLE 9 Interchangeable Die Sets for Fiber Optic Connectors

| Description | | Cat (UPC) No. | |
|-------------|---|---------------|----------|
| CONNECTION | DESCRIPTION | TOOL WITH DIE | DIE ONLY |
| | 0-style crimp cavities with dimensions of 0.131" x 0.162" x 0.196" (3.33 mm x 4.11 mm x 4.98 mm) For AMP Optimate SMA-style fiber optic connectors | | 45572 |
| | 0.151" (3.84 mm) hex cavity 0.178" (4.52 mm) hex cavity 0.213" (5.41 mm) hex cavity Universal fiber optic die | 45637 | |



45658

Fiber Optic Termination Kit

This complete kit contains our KWIK CYCLE 9" Crimp Frame and all of the tools and consumables necessary for epoxy and polish connector terminations. See page 55 for more details about our Fiber Optic Termination Kit.

Fiber Optic Co-polymer Polishing Puck



45598

Application:

Used for standard ST, SC and FC connectors with 2.5 mm ferrules.

| Description | Cat (UPC) No. |
|---------------------------------------|---------------|
| Fiber Optic Co-polymer Polishing Puck | 45598 |

Fiber Optic Stainless Steel Polishing Puck



45599

Application:

Used for standard ST, SC and FC connectors with 2.5 mm ferrules.

Features:

- Made of stainless steel to last for years of termination
- Precision hole prevents even the slightest misalignment
- Grooves in the puck's surface eliminate "sticking" during wet polishes

| Description | Cat (UPC) No. |
|--|---------------|
| Fiber Optic Stainless Steel Polishing Puck | 45599 |

Fiber Optic Polishing Pad



45612

Application:

Resilient pad is perfect for PC (physical contact) pre-radiused ferrules.

Specifications:

- 3" x 8"
- 70 durometer

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| Fiber Optic Polishing Pad | 45612 |

Fiber Optic Inspection Microscope



45651

Application:

High-powered microscope is used to check a connector's endface for excess epoxy, core or cladding chips or other irregularities that degrade optical performance of the connector.

Features:

- Laser safety filter protects eyesight
- Rubber eyecup for comfortable use
- Rugged aluminum housing

Specifications:

- 200X magnification
- Universal adapter works with ST, SC or FC connectors

Description

Fiber Optic Inspection Microscope

Cat (UPC) No.

45651

Connector Cleaning Systems



948

Application:

Special lint-free fabric-on-a-reel quickly cleans ferrule endfaces of dust, oil and other contaminants.

Features:

- Cleaning system is completely self-contained
- No need for alcohol
- A single cleaning reel can be used for over 400 ferrule cleanings

Specifications:

- ReelCleaner™ can be used on all connector types including MTP and MT-RJ

Description

ReelCleaner Connector Cleaning System

Replacement Reel Set, 6/Package

Cat (UPC) No.

948 (60692)

948/6 (60693)

Adapter Cleaning Wands



946

Application:

Specially-created, lint-free materials clean hard-to-reach fiber optic interfaces, bulkhead adapters and ferrule alignment sleeves.

Description

2.5 mm Cleaning Wands, 10/Package

2.5 mm Cleaning Wands, 200/Box

1.25 mm Cleaning Wands, 10/Package

1.25 mm Cleaning Wands, 200/Box

Cat (UPC) No.

946 (60571)

946K (60689)

947 (60690)

947K (60691)



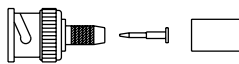
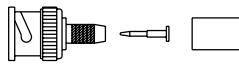
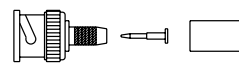
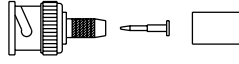
Connectors

BNC Coaxial Connectors

Features:

- Gold-plated, captive center contact provides long life and reliable performance
- Precision manufactured from machined brass and nickel plated for corrosion resistance

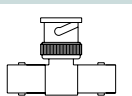
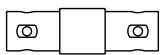
BNC Connectors

| Description | Cat (UPC) No. | Recommended Tool | | |
|--|---------------------|------------------|----------|-------------|
| CONNECTOR TYPE | CABLE TYPE | QUANTITY | STRIPPER | CRIMPER |
|  BNC Crimp Plug | RG58 Thinnet PVC | 5/Pack | 45730 | 45577 46800 |
|  BNC Crimp Plug | RG58 Thinnet Plenum | 5/Pack | 45731 | 45577 46800 |
|  BNC Crimp Plug | RG59/62 PVC | 5/Pack | 45732 | 45577 46800 |
|  BNC Crimp Plug | RG59/62 Plenum | 5/Pack | 45733 | 45577 46800 |

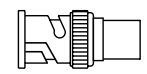
For the best tools to use with our BNC connectors,

See page 59 for stripping and pages 65 and 66 for crimping.

BNC Adapters

| Description | Cat (UPC) No. |
|---|---------------|
| ADAPTER TYPE | QUANTITY |
|  BNC Tee-style Plug to Jack/Jack | 1/Pack 45727 |
|  BNC Straight Jack to Jack | 1/Pack 45728 |

BNC Terminators

| Description | Cat (UPC) No. |
|---|---------------|
| ADAPTER TYPE | QUANTITY |
|  BNC Terminator 50 OHM | 1/Pack 45725 |
|  BNC Terminator 93 OHM | 1/Pack 45726 |

F-style Coaxial Connectors


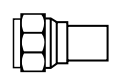
Features:

- Nickel plated for corrosion resistance

F-style Connectors

| Description | Cat (UPC) No. | Recommended Tool | | |
|--|------------------|--------------------|----------------|-------------------------------|
| CONNECTOR TYPE | CABLE TYPE | QUANTITY | STRIPPER | CRIMPER |
|  'F' Connector Twist-on | RG59 | 10/Pack 50/Pack | 45735 45749 | 45576 45578 45677 |
|  'F' Connector Crimp | RG59 | 10/Pack 50/Pack | 45734 45748 | 45576 45578 45677 46801 |
|  'F' Connector 1-pc Crimp | RG59 | 10/Pack 50/Pack | 45385 45386 | 45576 45578 45677 46801 |
|  'F' Connector 2-pc Crimp | RG59 | 10/Pack 50/Pack | 45317 45318 | 45576 45578 45677 46801 |
|  'F' Connector Twist-on | RG6 | 10/Pack 50/Pack | 45327 45328 | 45576 45578 45677 |
|  'F' Connector Crimp | RG6 | 10/Pack 50/Pack | 45315 45316 | 45576 45578 45677 46801 |
|  'F' Connector 2-pc Crimp | RG6 | 10/Pack 50/Pack | 45319 45320 | 45576 45578 45677 46801 |
|  'F' Connector Crimp | RG59 Quad-shield | 10/Pack 50/Pack | 45321 45322 | 45576 45578 45677 46801 |
|  'F' Connector Crimp | RG6 Quad-shield | 10/Pack 50/Pack | 45323 45324 | 45576 45578 45677 46801 |

F-style Adapters and Terminators

| Description | Cat (UPC) No. |
|--|---------------|
| ADAPTER/TERMINATOR TYPE | QUANTITY |
|  'F' Female Adapter | 5/Pack 45325 |
|  'F' Terminator | 5/Pack 45326 |

For the best tools to use with our F-style connectors

See pages 59 and 60 for stripping and pages 65 and 66 for crimping.

Modular Plugs

Application:

We offer modular plugs for a wide variety of installations — from simple tasks like connecting a telephone handset cord to the most demanding requirements of Category 5 wiring.

Features:

- Gold-plated contacts provide long life and reliable performance
- Manufactured to comply with FCC 68 guidelines

Modular Plug Connectors

| Description | CONNECTOR TYPE | CABLE TYPE | QUANTITY | Cat (UPC) No. Recommended | | | |
|---|----------------------|-----------------------------|--------------------------------|---------------------------|---------|----------------------|--------------------|
| | | | | STRIPPER | CRIMPER | COMBO | |
|  | Handset 4 Contact | Flat Cable Stranded Wire | 25/Pack 50/Pack 100/Pack | 45737 45750 45770 | 45480 | 45504 w/die 45566 | 45575 |
|  | RJ11 6 Contact | Flat Cable Stranded Wire | 25/Pack 50/Pack 100/Pack | 45738 45751 45771 | 45480 | 45541 | 45553 45575 |
|  | DEC MMJ 6 Contact | Flat Cable Stranded Wire | 25/Pack | 45739 | 45480 | 45504 w/die 46119 | |
|  | RJ45 8 Contact | Flat Cable Stranded Wire | 25/Pack 50/Pack 100/Pack | 45740 45753 45773 | 45480 | | 45553 45575 |
|  | RJ45 Keyed 8 Contact | Flat Cable Stranded Wire | 25/Pack 50/Pack 100/Pack | 45741 45754 45774 | 45480 | | 45553 45575 |
|  | Handset 4 Contact | Round Cable Solid Wire | 25/Pack 50/Pack 100/Pack | 45742 45755 45775 | 45579 | 45504 w/die 45566 | 45575 * |
|  | RJ11 6 Contact | Round Cable Solid Wire | 25/Pack 50/Pack 100/Pack | 45743 45756 45776 | 45579 | 45541 | 45553 * 45575 * |
|  | DEC MMJ 6 Contact | Round Cable Solid Wire | 25/Pack | 45744 | 45579 | | 45553 * 45575 * |
|  | RJ45 8 Contact | Round Cable Solid Wire | 25/Pack 50/Pack 100/Pack | 45745 45758 45778 | 45579 | | 45553 * 45575 * |
|  | RJ45 Keyed 8 Contact | Round Cable Solid Wire | 25/Pack 50/Pack 100/Pack | 45746 45759 45779 | 45579 | | 45553 * 45575 * |
|  | RJ45 Cat 5 8 Contact | Round Cable Solid Wire | 25/Pack 50/Pack 100/Pack | 45747 45760 45780 | 45579 | | 45553 * 45575 * |

* Not for use on round cable

For the best tools to use with our modular plugs

See pages 59 to 61 for stripping
and pages 65 and 66 for crimping.



Installation Products



CableCaster™



06186

Application:

Significantly speeds up the installation of lightweight communications cable through hard-to-reach spaces such as suspended ceilings, rafters and sub-floors.

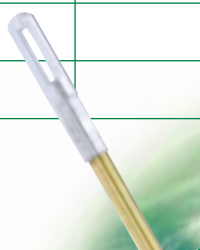
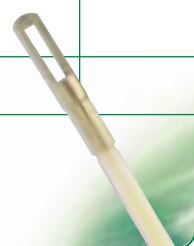
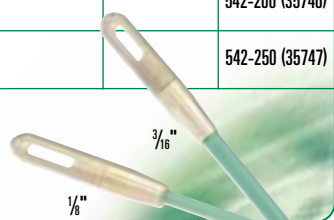
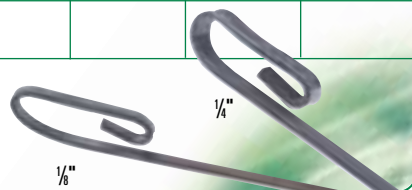
Features:

- 50' (15 m) range allows for faster installations with fewer pulls
- Bright yellow body reduces chances of leaving the CableCaster behind
- Glow-in-the-dark darts minimize replacement costs because they are easy to locate
- Aerodynamic darts provide high accuracy and fast installation
- Optional flashlight improves visibility

| Description | Cat (UPC) No. |
|--|---------------|
| CableCaster Wire Pulling Tool with Three Darts | 06186 |
| CableCaster Replacement Darts (Pack of Four) | 06259 |
| Pocket-light Flashlight | 46500 |

Fish Tape Selection Guide

| LENGTH | Steel | | Fiberglass | | Nylon | | Flex-O-Twist™ | | | |
|--------|----------------|-----------------|----------------|-----------------|-----------------|------------------|----------------|-----------------|-----------------|-----------------|
| | WITH CASE | WITHOUT CASE | WITH CASE | WITHOUT CASE | WITH REEL | WITH CASE | WITHOUT CASE | WITH CASE | WITHOUT CASE | |
| 25' | | | | | | | | 539-25 (30161) | 439-25 (29516) | |
| 50' | 438-5 (29045) | R438-5 (29047) | | | 540-50 (35742) | | 436-5 (27396) | R436-5 (36850) | 539-50 (30162) | 439-50 (29517) |
| 100' | 438-10 (28256) | R438-10 (28257) | 538-10 (30394) | R538-10 (30395) | 540-100 (35743) | R540-100 (35744) | 436-10 (27397) | R436-10 (36849) | 539-100 (34002) | 439-100 (29518) |
| 150' | | | | | | | | | 542-150 (35745) | |
| 200' | 438-20 (29046) | R438-20 (29048) | | R538-20 (30396) | | | | | 542-200 (35746) | |
| 250' | | | | | | | | | 542-250 (35747) | |



Fish Tape Accessories

Greenlee fish tapes are available in a durable case that is specifically designed to withstand the most rigorous jobs. The large handle is made of durable nylon to resist breakage, the feeding assembly reduces jamming and kinking of the tape, and one sight and clearance hole aids in the removal of any foreign objects. Our 3/16" (4.8 mm) fiberglass tapes come in a convenient reel stand.



Steel Fish Tapes

Features:

- High-quality, heat-treated steel for superior strength
- Optional swivel ball for 1/8" tape is designed to twist with the wire during the pull, reducing total pulling friction

Specifications:

- Available in two widths: 1/8" x 0.060" (3.2 mm x 1.5 mm) 1/4" x 0.060" (6.4 mm x 1.5 mm)
- Corrosion-resistant finish

12" Flexible Fish Tape Leader

Application:

Thread on the end of steel fish tape in place of the swivel ball head to help guide the fish tape through sharp bends.

Specifications:

- 12" (305 mm)



439-1 (30859)

| Description | Cat (UPC) No. |
|---------------------------------|-----------------|
| 1/8" (3.2 mm) Tapes | |
| 50' (15.2 m) with Case | 438-5 (29045) |
| 50' (15.2 m) without Case | R438-5 (29047) |
| 100' (30.5 m) with Case | 438-10 (28256) |
| 100' (30.5 m) without Case | R438-10 (28257) |
| 200' (61 m) with Case | 438-20 (29046) |
| 200' (61 m) without Case | R438-20 (29048) |
| Swivel Ball for 1/8" Steel Tape | R438B (29367) |
| 1/4" (6.4 mm) Tapes | |
| 100' (30.5 m) with Case | 538-10 (30394) |
| 100' (30.5 m) without Case | R538-10 (30395) |
| 200' (61 m) without Case | R538-20 (30396) |



Fiberglass Fish Tapes

Application:

Designed for use where multiple bends hinder the use of a steel fish tape. Excellent for telecommunications applications.

Features:

- Flexible
- Non-conductive

Specifications:

- Available in two diameters: 1/8" (3.2 mm) 3/16" (4.8 mm)

| Description | Cat (UPC) No. |
|-------------------------------|------------------|
| 1/8" (3.2 mm) Tapes | |
| 50' (15.2 m) with Case | 540-50 (35742) |
| 100' (30.5 m) with Case | 540-100 (35743) |
| 100' (30.5 m) without Case | R540-100 (35744) |
| 3/16" (4.8 mm) Tapes | |
| 150' (45.7 m) with Reel Stand | 542-150 (35745) |
| 200' (61 m) with Reel Stand | 542-200 (35746) |
| 250' (76.2 m) with Reel Stand | 542-250 (35747) |



Nylon Fish Tapes

Application:

Fish steel and PVC conduit with multiple bends easier when installing any wire or cable.

Features:

- Flexible
- Non-conductive

Specifications:

- 3/16" (4.8 mm) diameter

| Description | Cat (UPC) No. |
|-----------------------------|-----------------|
| 3/16" (4.8 mm) Tapes | |
| 50' (15.2 m) with Case | 436-5 (27396) |
| 50' (15.2 m) without Case | R436-5 (36850) |
| 100' (30.5 m) with Case | 436-10 (27397) |
| 100' (30.5 m) without Case | R436-10 (36849) |



Flex-O-Twist Flexible Steel Fish Tapes

Application:

Designed for multiple bends where flat steel fish tapes may not work.

Features:

- Flexible steel slips through lateral and vertical bends in the same run
- Steel cable is strong enough to pull up to 500 lbs

Specifications:

- 3/16" x 0.060" (4.8 mm x 1.5 mm)
- Multi-strand steel cable

| Description | Cat (UPC) No. |
|-----------------------------|-----------------|
| 3/16" (4.8 mm) Tapes | |
| 25' (7.6 m) with Case | 539-25 (30161) |
| 25' (7.6 m) without Case | 439-25 (29516) |
| 50' (15.2 m) with Case | 539-50 (30162) |
| 50' (15.2 m) without Case | 439-50 (29517) |
| 100' (30.5 m) with Case | 539-100 (34002) |
| 100' (30.5 m) without Case | 439-100 (29518) |



The Original D'versiBIT® System

Features:

- Saves time and eliminates frustration while fishing wire or cable through existing walls
- Simple to use — just bow the sprint steel shaft in the direction you want to drill
- Field proven to deliver accurate and professional results in many applications
- D'versiBITS are available in three different types for a variety of materials

Specifications:

- ¼" to 1" (6.4 mm to 25.4 mm) in diameter and in shaft lengths from 18" to 72" (45.72 mm to 1828.8 mm)

Types of D'versiBITS

| Color Code | Bit Diameter | | Shaft Length | | Shaft Diameter | | Type A | Type B | Type C |
|------------|--------------|------|--------------|--------|----------------|-----|---------------------|-----------------------------|--------------------------|
| | In | mm | In | mm | In | mm | Wood-type Auger Bit | Combination Screw Point Bit | Combination Bit for Wood |
| Black | ¾" | 9.5 | 54 | 1371.6 | ⅜" | 4.8 | 06-03-54A (38068) | 06-03-54B (38093) | 06-03-54C (38118) |
| | | | 72 | 1828.8 | ⅜" | 4.8 | 06-03-72A (38069) | 06-03-72B (38094) | 06-03-72C (38119) |
| Green | ½" | 12.7 | 54 | 1371.6 | ⅜" | 4.8 | 08-03-54A (38073) | 08-03-54B (38098) | 08-03-54C (38123) |
| | | | 72 | 1828.8 | ⅜" | 4.8 | 08-03-72A (38074) | 08-03-72B (38099) | 08-03-72C (38124) |
| Orange | ⅝" | 14.3 | 54 | 1371.6 | ⅜" | 4.8 | 09-03-54A (38078) | 09-03-54B (38103) | 09-03-54C (38128) |
| Red | ¾" | 19.1 | 54 | 1371.6 | ¼" | 6.4 | 12-04-54A (38083) | Not Available | 12-04-54C (38133) |
| White | 1" | 25.4 | 54 | 1371.6 | ¼" | 6.4 | 16-04-54A (38088) | Not Available | 16-04-54C (38138) |



Flexible steel drill bits are perfect for installing wire or cable inside existing walls.



Wood-type Auger Bit with screw point works well for soft woods and thin sections



Combination Screw Point Bit is perfect for easy starting and pulling through wood



Combination Bit for Wood

D'versiBIT Placement Tool

Application:

Allows vertical and horizontal placement of the drill bit at any point within the wall.

Features:

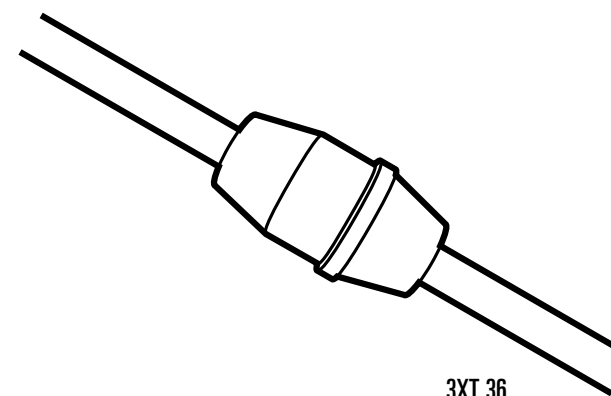
- Helps to avoid accidental drilling through the wall



712P

| Description | Cat (UPC) No. |
|---------------------------|---------------|
| D'versiBIT Placement Tool | 712P (38350) |

D'versiBIT Extensions



3XT 36

Application:

Connect to chuck end of D'versiBIT shaft to increase the length of the bit.

| D'versiBIT Shaft Dia. | D'versiBIT Length | Cat (UPC) No. |
|-----------------------|-------------------|----------------|
| ⅜" (4.8 mm) | 36" (0.9 m) | 3XT 36 (38685) |
| ⅜" (4.8 mm) | 54" (1.4 m) | 3XT 54 (38686) |
| ⅜" (4.8 mm) | 72" (1.8 m) | 3XT 72 (38687) |
| ¼" (6.4 mm) | 36" (0.9 m) | 4XT 36 (38688) |
| ¼" (6.4 mm) | 54" (1.4 m) | 4XT 54 (38689) |
| ¼" (6.4 mm) | 72" (1.8 m) | 4XT 72 (38690) |

Abrasion Shield



606AS

Application:

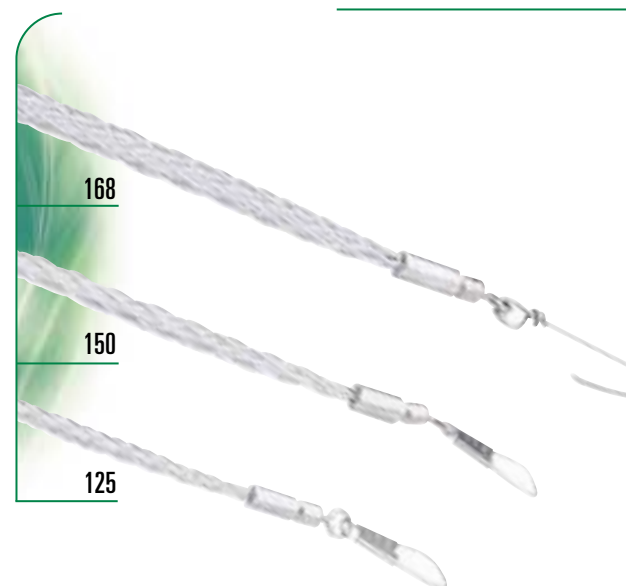
Protects shaft of masonry bits as they turn against masonry walls during drilling.

| Description | Cat (UPC) No. |
|-----------------|---------------|
| Abrasion Shield | 606AS (38696) |

D'versiGRIP Wire and Cable Pulling Grips

Features:

- Swivel action reduces twisting during wire or cable recovery
- Clip attaches to hole in bit, and the mesh basket holds the wire or cable



168

150

125

| Description | Cat (UPC) No. |
|--|---------------|
| D'versiGRIP for Pulling Single Wire with ⅜" to ½" Bits (9.5 mm to 12.7 mm) | 125 (38691) |
| D'versiGRIP for Pulling ½" OD Wire (12.7 mm) with ½" to ⅝" Bits (12.7 mm to 14.3 mm) | 150 (38692) |
| D'versiGRIP for Pulling ¾" OD Wire (19.1 mm) with ¾" to 1" Bits (19.2 mm to 25.4 mm) | 168 (38693) |

Fiber Optic Cable Puller

Application:

Designed to meet the unique pulling requirements of fiber optic or any other type of communication cable.

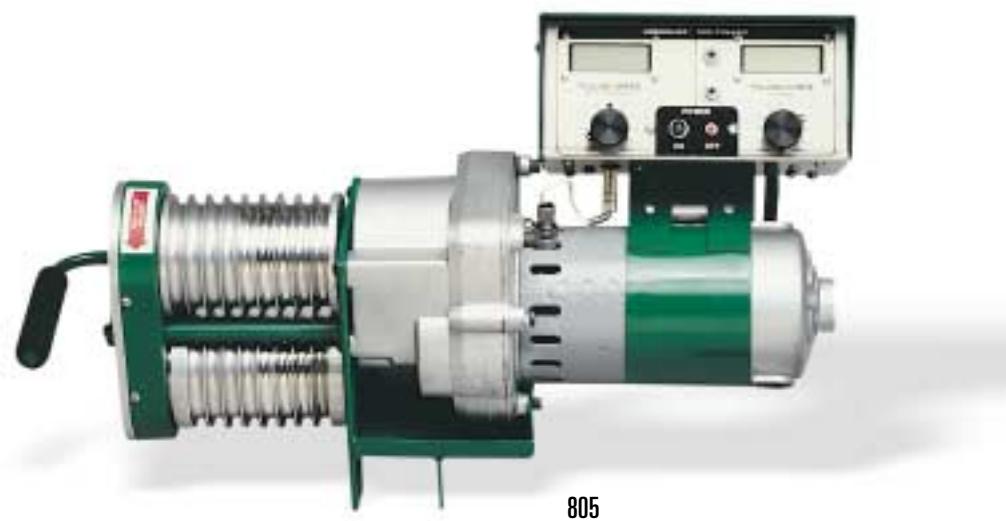
Features:

- Both speed and maximum pulling force can be set by the operator
- Electronically displays both actual speed and actual force while running
- Shuts down when maximum preset force is reached to prevent damage to the cable being pulled (200 to 800 lbs adjustment range [90.7 to 363 kg])
- Gradual restart after automatic shutdown prevents quick snap stressing
- Ports provided to link to optional strip recorder for permanently documenting pulling force or speed
- Dual-grooved capstans provide excellent rope control

Specifications:

- Pulling speed of 10' to 75' per minute (3 m to 23 m per minute)
- Includes puller mounting bracket, mounting chain and steel storage case (120V)

| Description | Cat (UPC) No. |
|--|---------------|
| Fiber Optic Puller | 805 (33678) |
| Boom Mount for Use with 441 Feeding Sheave | 33656 |
| On/Off Foot Switch | 33629 |
| Chart Recorder | 33901 |
| Chart Recorder Cable | 86332 |
| Paper for Chart Recorder | 86328 |



805

Fiber-Gel™

Application:

Synthetic gel is specially designed for light-weight fast pulling of fiber optic cables.

Features:

- Dries slowly and leaves a long-lasting lubricating film
- Cleans up easily

Specifications:

- Compatible with all cable jackets
- Compatible with pre-lubricated innerducts
- Environmentally safe
- Operating range from 32° F to 190° F (0° C to 88° C)

| Description | Cat (UPC) No. |
|---|----------------|
| Fiber-Gel One Quart Squeeze Bottle (0.95 L) | FIBR-Q (02040) |
| Fiber-Gel One Gallon (3.79 L) | FIBR-1 (02041) |
| Fiber-Gel Five Gallons (18.93 L) | FIBR-5 (02045) |



FIBR-5

FIBR-Q

FIBR-1

Clear Lube™

Application:

Designed for use within electrical or datacom cable pulls.

Features:

- Clear and colorless for quick, easy clean-up
- Excellent lubricity for fast pulls (0.27 to 0.29 COF)

- Environmentally safe, non-hazardous, non-toxic and non-corrosive
 - Easy to apply either by hand, brush or pump
- ### Specifications:
- Remains stable over a wide range of temperatures, 20° F to 190° F (-6° C to 190° C)
 - Polymer base with no silicon additives
 - Average coefficient of friction (per IEEE, 375-2 test procedure), 0.27 in PVC and 0.29 in EMT
 - Three-year shelf life with no deterioration in lubricant



CLR-5

CLR-1

CLR-Q

| Description | Cat (UPC) No. |
|--|---------------|
| Clear Lube Pulling Lubricant, 1 Quart (0.95 L) | CLR-Q (10437) |
| Clear Lube Pulling Lubricant, 1 Gallon (3.79 L) | CLR-1 (10438) |
| Clear Lube Pulling Lubricant, 5 Gallon (18.93 L) | CLR-5 (10439) |

Poly Line

Application:

Perfect for most DSV fishing needs to pull rope through conduit. Not suitable for pulling wire or cable.

Features:

- Poly Line can be used with power fishing systems directly from the container
- Resists tangling when dispensing

- Reusable plastic dispenser pail keeps the line dry
- Rot and mildew resistant

| Length | Avg Breaking Strength | Cat (UPC) No. |
|-----------------|-----------------------|---------------|
| 6,500' (1981 m) | 210 lbs (934 N) | 430 (21481) |
| 5,200' (1585 m) | 240 lbs (1 kN) | 431 (21482) |
| 2,200' (670 m) | 500 lbs (2.2 kN) | 37959 |



430

Polyester Measure/Pulling Tape

Application:

Two-in-one tool to measure run length and pull cable.

Features:

- Durable and stretch resistant tape for easily pulling and installing wire and fiber optic cables within PVC and HDPE ducts
- Factory lubricated to reduce burn-through in innerduct
- Easy-to-read footage markings for quick and accurate measurements
- Available in various tensile strengths for use in any application

Specifications:

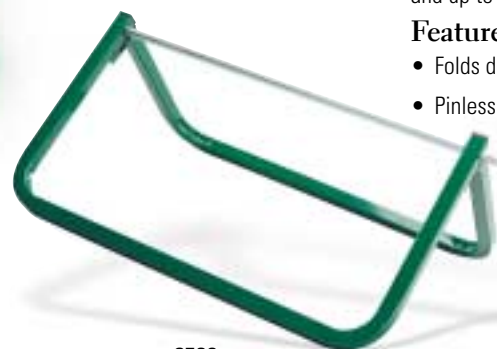
- Treated with silicone lubricant that is compatible with all innerduct lubricants



4436

| Avg Breaking Strength | Length x Width (approx.) | Cat (UPC) No. |
|-----------------------|---------------------------------|---------------|
| 1,250 lbs (5.56kN) | 3,000' (914 m) x 1/2" (12.7 mm) | 4435 (10445) |
| 1,800 lbs (8.01 kN) | 3,000' (914 m) x 5/8" (15.9 mm) | 4436 (10446) |
| 2,500 lbs (11.12 kN) | 3,000' (914 m) x 3/4" (19.1 mm) | 4437 (10447) |

Data Cable Caddy



9520

Application:

Perfect for communication spools 6" wide and up to 19" in diameter.

Features:

- Folds down for easy storage
- Pinless design eliminates loose parts

Specifications:

- 21" long x 28½" wide x 11½" high (533 mm long x 724 mm wide x 292 mm high)
 - Caddy weighs 11 lbs (5 kg)
- Spool Capacity:**
- 100 lbs maximum total spool weight (45.4 kg)
 - 19" maximum spool diameter (483 mm)

| Description | Cat (UPC) No. |
|------------------|---------------|
| Data Cable Caddy | 9520 (01228) |

Folding Hand Caddy



9501

Application:

Holds up to six spools of #10 wire.

Features:

- Folds down to 2½" for easy storage
- Pinless design eliminates loose parts

Specifications:

- 10" wide x 18½" high (254 mm wide x 470 mm high)
 - Caddy weighs 6 lbs (2.7 kg)
- Spool Capacity:**
- 100 lbs maximum total spool weight (45.4 kg)
 - 19" maximum spool diameter (483 mm)

| Description | Cat (UPC) No. |
|--------------------|---------------|
| Folding Hand Caddy | 9501 (01202) |

Hand Truck Wire Cart



38733

Application:

Stores and dispenses up to 15 spools of #14 THHN wire.

Features:

- Heavy-duty wheels for durability and easy transporting
- Dual heavy-duty wire guides dispense wires in all directions
- Only 23" wide to fit easily through narrow doorways
- Storage space for three spindles and clips eliminates loose parts when they are not in use

Specifications:

- Five ¾" diameter reel spindles
- 22½" long x 23" wide x 46" high (571.5 mm long x 584.2 mm wide x 1,168 mm high)
- Cart weighs 58 lbs (26.3 kg)

- Spool Capacity:**
- Two 1,000' spools (305 m) up to 22" dia. x 16½" wide (558.8 mm dia. x 416 mm wide)
 - Three 2,500' spools (762 m) up to 14" dia. x 16½" wide (355.6 mm dia. x 416 mm wide)
 - Ten 500' spools (152 m) up to 7" dia. x 8" wide (177.8 mm dia. x 203.2 mm wide)
 - Fifteen 500' spools (152 m) up to 7" dia. x 5½" wide (177.8 mm x 136.5 mm)

| Description | Cat (UPC) No. |
|----------------------|---------------|
| Hand Truck Wire Cart | 38733 |

Hand Truck Caddy



9505

Application:

Stores and dispenses up to 12 spools of #12 AWG wire or eight spools of #10 AWG wire.

Features:

- 10" diameter pneumatic tires facilitate jobsite portability
- Pinless design eliminates loose parts
- Multi-use caddy can lay flat for dispensing wire or be used upright as a hand caddy

Specifications:

- Four solid steel ½" diameter reel spindles
 - 46½" long x 28½" wide (1,180 mm long x 71.8 mm wide)
 - Caddy weighs 32 lbs (14.5 kg)
- Spool Capacity:**
- 200 lbs maximum total spool weight (90.7 kg) or 4,000' (1,219.2 m) of #10 AWG wire
 - 7½" maximum spool diameter (190 mm)
 - 250 lbs maximum dolly lift (113.4 kg)

| Description | Cat (UPC) No. |
|------------------|---------------|
| Hand Truck Caddy | 9505 (01205) |

Wire Cart



911

Application:

Our highest-capacity cart is excellent for storing, transporting or feeding large quantities of wire.

Features:

- Cart can be used vertically or horizontally to save space
- Built-in wire guide facilitates horizontal dispensing
- Five strong reel axles with spring clip retainers plus two positions for axle storage allow for configuration of large reels with no loose parts
- Fits through 28" (711.2 mm) openings

Specifications:

- Made of strong, yet lightweight, tubular steel welded construction with rugged 8" (203.2 mm) wheels.
 - 54½" long x 27" wide x 26½" high when horizontal (1384.3 mm long x 685.8 mm wide x 673.1 mm high)
 - Cart weighs 62 lbs (28.12 kg)
- Spool Capacity:**
- Six 2,500' spools (762 m) up to 16" dia. (406 mm)
 - Six 500' spools (152.4 m) up to 8" dia. (203 mm)

| Description | Cat (UPC) No. |
|----------------------|---------------|
| Wire Cart | 911 (31518) |
| Reel Shaft (Qty. 5) | 31523 |
| Hitch Clip (Qty. 10) | 50303 |

KWIK CYCLE® Cable Tie Guns



45306

Application:

The Standard Cable Tie Gun is for use with ¼" to ⅝" wide cable ties (2.2 mm to 4.8 mm), and the gun is made of molded nylon.

The Heavy-duty Cable Tie Gun is for use with cable ties up to ¼" wide (6.35 mm), and the gun is made of durable metal.

Features:

- Tension adjustment allows the user to adapt the tool to the size of the tie
- Automatic cut-off eliminates sharp edges on ties

| Description | Cat (UPC) No. |
|--------------------------|---------------|
| Standard Cable Tie Gun | 45306 |
| Heavy-duty Cable Tie Gun | 45300 |

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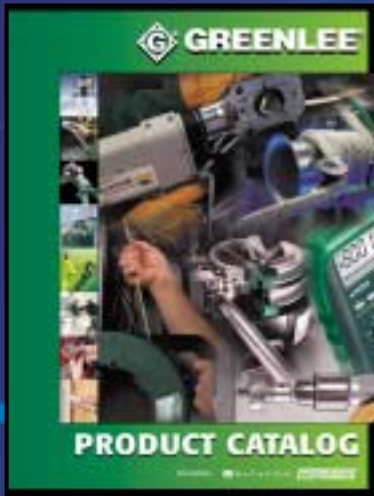
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