COMMUNICATIONS

GREENLEE COMMUNICATIONS OFFERS A COMPLETE LINE OF INNOVATIVE AND INDUSTRY-LEADING TEST & MEASUREMENT SOLUTIONS FOR THE COMMUNICATION SERVICE PROVIDER INDUSTRY.

Contents

DataScout™ 10G

NEW PRODUCT

DS10G-HW-B2

SPECIFICATIONS

Display & Input	7" WVGA LCD touch screen 800x600 resolution
Weight (Varies by configuration)	0.91 kg (2.0 lbs) minimum 1.36 kg (3.0 lbs) maximum
Dimensions	10 x 6.5 x 2.2 inches (WxHxD) 254 x 165 x 56 millimeters (WxHxD)

ENVIRONMENTAL

Operating Temperature	Operating Temperature: 10°C to 55°C14°F to 131°F
Operating Humidity:	0% to 93% RH non-condensing
Storage Temperature:	-20°C to 70°C -4°F to 158°F
Battery Type:	Li Ion battery pack
Run Time:	2-8 hours (varies by test mode)
External Power:	Mains: 110-240VAC, 50-60Hz with adaptors
Enclosure:	Shell: Rugged 1.5mm extruded aluminum Boot: Rubber with Wi-Fi® antenna storage slot Kickstand: Powder coated steel

CONFIGURATION OPTIONS

CAT. NO.	DESCRIPTION
TABLET CONTROLLER	
N DS10G-HW-B1	Base Controller Without Datacom Interface
N DS10G-HW-B2	Base Controller With Datacom Interface
TEST INTERFACES	
N DS10-HW-WIFI	Wi-Fi®
N DS10-HW-ETH	Dual 10/100/1000T/X & 10G Ethernet
N DS10-HW-PDH1	Dual DS1
N DS10-HW-PDH2	DS3 & Dual DS1
N DS10-HW-P	ISDN-PRI
N DS10-HW-DDS	Digital Data Services (DDS)
N DS10-HW-T	Transmission Impairment Measurement System (TIMS)

Wi-Fi® is a registered trademark of the Wi-Fi Alliance.

*As compared to competitive network analyzer model Subject to change without notice.

CUSTOMIZABLE FOR ANY WORKGROUP

FASTER TIME TO RESULTS
- Ready to test in 25 seconds
- Unique DS0 (TIMS) to 10G Ethernet solution
- Test multiple services simultaneously

SIMPLE TO USE, FAST TO LEARN
- Touch screen tablet design
- Portrait and landscape modes
- Intuitive test configuration
- Exportable results

RUGGED & RELIABLE
- Plug & stay - No modules to lose!
- Replaces up to 8 handhelds*
- Light yet sturdy aluminum housing
- Protective non-slip boot with kickstand

DESIGNED FOR:
- Service Providers
- Utilities
- Mobility
- Enterprise

Test Kits Include:
- DataScout 10G analyzer
- Universal charger with adapter blades

SOFTWARE OPTIONS

CAT. NO.	DESCRIPTION
ETHERNET TEST OPTIONS	
DS10G-SW-201	Adds dual port 1Gb Ethernet testing
DS10G-SW-110	Activates single 10G test interface
DS10G-SW-210	Adds dual port 10Gb Ethernet testing
DS1 TEST OPTIONS	
DST-SW-DT1	Adds dual port T1 testing
DST-SW-N1	Adds T1 CSU/NIU emulation
DST-SW-V	Adds DS0 voice analysis
DST-SW-E	Adds Euro/Asian ISDN-PRI support
DST-SW-X	Adds DS0 drop, insert & bypass
DST-SW-DCOM	Adds DATACOM DTE/DCE interface testing
DST-SW-E1	Adds E1/T1 On-The-Fly testing
DS3 TEST OPTIONS	
DST-SW-H3	Adds DS3 thru-mode testing
DST-SW-D1D	Adds DS1 drop from DS3 signal
DST-SW-NX	Adds DS3 CSU/NIU emulation
TIMS TEST OPTIONS	
DST-SW-PRO4	Adds 4-button frequency program
DST-SW-4	Adds 4-WIRE 100/135Ω testing
DST-SW-EM	Adds E&M TYPE I-V signaling, trunk, PBX and Tie Line testing
DST-SW-DG	Adds measurement of dropouts, hits, amplitude, and phase jitter
DST-SW-TON	Adds transmit of warble ID tone

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DataScout™ 10G Product Specifications

PRODUCTIVITY APPLICATIONS
- Chrome web browser
- Google maps
- Email, notes & contacts
- PDF viewer
- Onboard user manual & videos
- Remote control/upload via LAN

802.11 WIRELESS VALIDATION
- Tests for proper 802.11 b,g,n configuration
- Performs channel scan
- Graphical frequency/channel/power display
- Remote control via Wi-Fi

ETHERNET VALIDATION
- Dual 10/100/1000T/X SFP Ethernet ports
- 10 Gigabit Ethernet SFP+
- BERT
- Optical power measurement
- PING & Traceroute
- RFC-2544 with quick test validation
- Loopback, monitor and thru modes
- Easy to read graphical reports

DS3 TESTING
- Automatic self test on connection
- STS-1 signal detection
- Simultaneously test Dual T1 and DS3

DS1 TESTING
- Dual T1/E1 testing
- PRI-ISDN NT/TE emulation
- T1 to Ethernet Bridging
- DS0 Voice & Data Testing
- CSU/NIU Emulation Mode
- VT100 emulation
- Frame Relay option

SIGNALING (TIMS/DS0) TESTING
- Comprehensive VF test suite
- TIMS 2/4 wire plus wideband
- CO/PBX emulation
- Perfect replacement for Am5, CXR-704, HP4935A

4 WIRE DDS TESTING
- CSU/DSU emulation
- 56K primary/secondary modes
- 64K clear channel mode
- Real-time received byte display
- Monitor received signal level

DATACOM TESTING
- Sync/Async & DTE/DCE modes
- V.35, RS232, RS449, RS530, X21

INTELLIGENT TIMING VERIFICATION
- Verifies network timing systems
- Combines oscilloscope, T1 test and switch box
- Composite clock/pulse analysis
- Eliminates need for expensive storage oscilloscope
- Test 10 T1/E1 circuits in seconds

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MULTI-NETWORK TEST ANALYZERS
DataScout™ 1G

NEW PRODUCT

DS1G-BAS

FASTER TIME TO RESULTS
- Ready to test in 15 seconds
- Efficient SLA verification
- Results can be exported for easy sharing

REDUCE TIME TO REPAIR
- All-in-one analyzer that is simple to use and fast to learn, enabling technicians to quickly determine and resolve network issues, regardless of the source

NO MODULES REQUIRED
- Eliminates the need for multiple test modules
- Combines seven different physical layer test protocols into one complete handheld testing solution, saving time and money

DESIGNED FOR THE TECHNICIAN
- Ruggedized for demanding environments
- Ergonomically designed to be the lightest and smallest on the market
- Long battery run time provides extended field testing

Test Kits Include:
- DataScout 1G analyzer
- Universal charger with adapter blades
- Padded storage case
- Stylus
- USB adapter
- Wi-Fi® Antenna

SPECIFICATIONS

Interfaces	Management: LAN 10/100 Base-T USB: Mini-USB with adapter Headset: Mini USB connector ear bud
Wi-Fi	802.11 b/g/n
Display & Input	3.5" TFT Touch Screen LCD
Weight	1.65 lbs (0.75 kg) without battery 2.2 lbs (1 kg) with battery
Dimensions	3.94 x 8.27 x 1.66 inches (WxHxD) 100 x 210 x 42 millimeters (WxHxD)

ENVIRONMENTAL

Operating Temperature	0°C to 50°C
Operating Humidity	5% to 90% non condensing
Storage	-10°C to 70°C
Battery	Type: Li Ion battery pack, 7.4V, 4800mAh Run Time: 7-10 hours typical (varies by test mode)
External Power	Mains: 110-240 VAC, 50-60 Hz
Enclosure	Ruggedized ABS with rubber shell

CONFIGURATION OPTIONS

CAT. NO.	DESCRIPTION
DS1G-BAS	Ethernet Analyzer
DS1G-PDH1	DS1 analyzer (T1 or E1)
DS1G-PDH2	DS1/DS3 analyzer (T3/T1 or E3/E1)

SOFTWARE OPTIONS

CAT. NO.	DESCRIPTION
DS1G-SW-BAS	Adds single stream Ethernet tests to DS1G-PDH1 or PDH2
DS1G-SW-ADV	Adds multiple stream Ethernet and Y.1564 tests
DS1G-SW-WIFI	Adds Wi-Fi® analysis
DS1G-SW-VOIP	Adds VoIP analysis
DS1G-SW-IPTV	Adds IPTV analysis
DS1G-SW-E1	Adds E1 to T1 analyzer
DS1G-SW-T1	Adds T1 to E1 analyzer
DS1G-SW-DCOM	Adds DATACOM testing
DS1G-SW-CODIR	Adds Co-Directional testing
DS1G-SW-E3	Adds E3 testing to T3 analyzer
DS1G-SW-T3	Adds T3 testing to E3 analyzer
DS1G-SW-C37	IEEE C37.94 Teleprotection analysis

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WIRELESS TEST SOLUTION
AirScout™
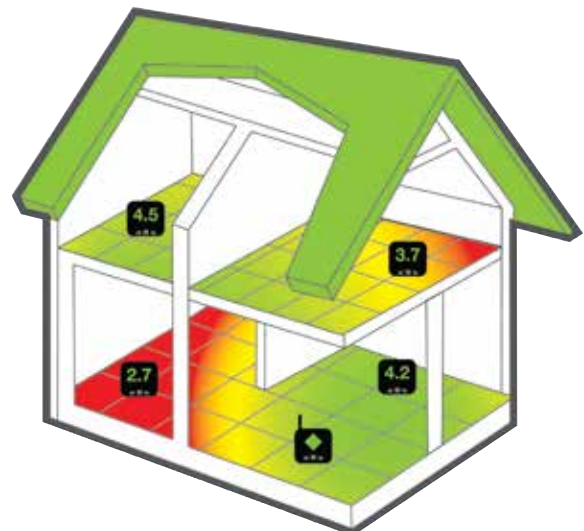

ASM300

ASC300

AirScout™
ENABLING Wi-Fi READINESS

› *The innovative Wi-Fi test solution*

› *Enables whole home or small business Wi-Fi® readiness testing in minutes*

› *Determines real "Quality of Experience" in multiple locations simultaneously*

	CAT. NO.	DESCRIPTION
N	ASK302	Two Client Solution in Carry Case
N	ASK306	Six Client Solution in Carry Case
A	ASM300	Individual Master Controller
A	ASC300	Individual Client

• Industry leading Application benchmark testing
• All 802.11 types benchmarked
• Validation testing over time increasing accuracy
• Determines, throughout the home in one survey:
  • Signal strength
  • Network congestion
  • Signal to noise ratio
  • Real throughput rates
  • Application performance in each location
• Up to 30 Clients supported
• Results recorded locally and in a cloud database for future reference

SPECIFICATIONS

ASM Controller	Height	1.81" (46.2 mm)
	Width	5.83" (147.6 mm)
	Depth	5.79" (146.8 mm)
	Weight	332 g (11.7 oz)
ASC Client	Height	1.46" (36.83 mm)
	Width	4.88" (124.46 mm)
	Depth	4.88" (124.46 mm)
	Weight	247 g (8.71 oz)
ASK306	Height	14.6" (370 mm)
	Width	11.8" (300 mm)
	Depth	6.69" (170 mm)
	Weight	11.7 lbs (187.2 oz)
Environment	Operating Temperature	0 to +55 ºC / 0 to +131 ºF
	Storage Temperature	-20 to +65 ºC / -4 to +149 ºF
	Operating Humidity	20-80% RH non condensing
	Storage Humidity	10-90% RH non condensing
Compliance	FCC	
	Canada Regulatory Requirements (ICES-003)	
	CE Compliance	

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CABLE MAINTENANCE TEST SET
Sidekick® Plus Copper and DSL Test Set

NEW PRODUCT

1155-5005

- **Saves time** – Easy-to-use mode selection dial and operation - minimizes training needs and saves time on the job
- **Versatile** – Combines your copper qualification needs with DSL sync and service testing in one test set
- **Fully loaded** – The Sidekick® Plus xDSL comes complete with all you need to perform tests on the copper networks that support DSL services
- **No modules needed** – Advanced cable diagnosis and troubleshooting in a single test set

Applications
Helps technicians diagnose and troubleshoot problems with twisted pair cable
Install, qualify, and maintain DSL services

Features
Bonded Modem With xDSL:
- Pair bonding
- ADSL2+/VDSL2+
- Vectoring
- Broadcom BCM63168
- Automated test scripts
- USB export/import of test results/profiles
- 35MHz Wideband Noise Spectrum Analysis
- 4.4MHz Loss Measurement Test
- 35MHz Impulse Noise Step
- TDR with auto bridgetap detection (zero dead zone)

ADSL/VDSL Modem Sync And Service Tests:
- DSL Showtime
- Bits per Tone Graph
- Signal-to-Noise Ratio Graph
- HLOG Graph
- Error Counter
- Upper Layer Testing: Ping, Trace-route, HTTP, FTP

Standard Features:
- Advanced Dual Trace Pulse TDR (Zero Dead Zone)
- Resistive Fault Locator (Detects up to 20MΩ)
- 1GΩ Leakage Test (Insulation Resistance)
- Longitudinal Balance Test
- Ground Resistance Test
- Stress Test
- AC/DC Voltage
- Resistance
- Open Meter
- Loop Current
- Circuit Loss
- Tracing Tone Generator
- Reference Tone

	CAT. NO.	UPC NO.	DESCRIPTION
N	1155-5001	01316	Sidekick Plus Kit LCC
N	1155-5003	01324	Sidekick Plus Kit SCC
N	1155-5005	01463	Kit, Sk Plus, Impulse Noise, Step TDR
N	1155-5009	01317	Sidekick Plus With Wideband
N	1155-5010	01318	Sidekick Plus With Wideband & Adsl/Vdsl Sync LCC
N	1155-5011	02275	Sidekick Plus With Wideband & Adsl/Vdsl Sync SCC
N	1155-5012	04197	Sidekick Plus Pair Bonded Modem - Fully Featured
N	1155-5013	03838	Sidekick Plus Pair Bonded Modem - Fully Featured SCC

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Sidekick® Plus ADSL Far-End-Device

NEW PRODUCT

1155-5001

For use with the Sidekick® Plus as a complete ADSL testing solution

Applications:
- Helps technicians diagnose and troubleshoot problems with twisted pairs at the far end of the cable
- Install, qualify, and maintain ADSL services

Benefits:
- Helps qualify pairs for ADSL service with ease
- Reduces testing time and increases technician productivity

Features:
- K-Test – Far-End-Device straps the pair under test
- TDR – Far-End-Device can alternately short and open the pair to verify the end-of-line
- Noise – Far-End-Device provides a line termination
- Loss – Far-End-Device provides single or multiple reference tones
- Longitudinal Balance – Far-End-Device provides an IEEE 455-1985 Longitudinal Balanced Termination
- Autotest – The Sidekick Plus manages the operation of the Far-End-Device during the test sequence
- Short Pair – Verifies loop length
- Short Pair to Ground – Determines pair resistive balance
- Remote activation via Sidekick® Plus
- Ability to connect and disconnect Central Office and Customer Premise equipment
- Supports Second Pair Testing
- Generates tones for pair ID and pair tracing
- Capability to generate tones over a range of frequencies from POTS to ADSL

Kit Includes:
- Sidekick® ADSL Far-End Device Unit
- RJ45 to Telco clip leads
- Canvas carry case

*For use with the Sidekick® Plus Models	
1155-5009	Sidekick® Plus with Wideband
1155-5010	Sidekick® Plus with Wideband & ADSL/VDSL Sync LCC
1155-5011	Sidekick® Plus with Wideband & ADSL/VDSL Sync SCC
1155-5012	Sidekick® Plus Bonded Modem - Fully Featured
1155-5013	Sidekick® Plus Bonded Modem - Fully Featured

	CAT. NO.	UPC NO.	DESCRIPTION
N	1157-5001	03958	Sidekick® FED Kit

Sidekick® T&ND

1144-5000

- Easy-to-read digital LCD display
- Internal Dialer for making Transmission Test connections
- Autotest – performs 22 individual tests at the touch of a button
- Determines the stressed noise susceptibility of dry and working pairs
- Measures AC/DC Volts, Leakage, resistance, and loop current
- Performs circuit loss, circuit noise (metallic noise), and power influence tests
- Built-in open meter
- Locates up to 4 load coils
- Single set up for Tip-Ring, Tip-Ground, and Ring-Ground tests
- Field replaceable test leads
- On-screen display of "LOW BATTERY" when batteries are near failure.

SPECIFICATIONS

Weight	2 lbs.	**Opens**	0 to 60 kft.
Dimensions	10.75" X 4.25" X 2.5"	**Loop Current**	0 to 100 mA
AC Volts	300 Vrms max.	**Load Coil**	up to 4
DC Volts	± 300 Volts max.	**Circuit Loss**	+1 to -15 dB
Resistance	1 Megohm max.	**Power Influence**	40 to 100 dBrnC
Leakage	100 Megohm max.	**Circuit Noise**	0 to 75 dBrnC
Stress	0 to 82 dBrnC	**Power**	Four AA Batteries

CAT. NO.	UPC NO.	DESCRIPTION
1144-5000	60853	Sidekick T&ND Test Set
Ⓡ 1134-1002S	60752	Case

Sidekick® T&N

1137-5002

- Five transmission and noise tests
- Determines the stressed noise susceptibility of dry and working pairs
- Measures resistance, AC/DC volts, and capacitive kick
- Provides tone for twisted pair or crossed conductor identification
- Single setup for testing Tip-Ring, Tip-Ground, and Ring-Ground
- Minimal drying effect in all ranges
- Field replaceable leads
- Softcase with adjustable strand hook
- Low battery indicator light

SPECIFICATIONS

Dimensions	10.75" x 4.25" x 2.5"	**Stress Test**	0 to 82 dBrnC
Weight	2 lbs.	**Loop Current**	0 to 100 mA
Resistance	Rx1: Reads 0 to 2000 Ω	**Circuit Noise**	0 to 75 dBrnC
	Rx1K: Reads 0 to 2 MΩ	**Circuit Loss**	-15 to +1 dB
Leakage	Rx10K: Reads 0 to 20 MΩ	**Power Influence**	50 to 100 dBrnC
DC Voltage	0 to 300 volts DC	**Operating Temp.**	-4°F to +140°F
AC Voltage	0 to 300 Vrms	**Power**	Four AA batteries

CAT. NO.	UPC NO.	DESCRIPTION
1137-5002	60526	Sidekick T&N
Ⓡ 1131-0202	60751	Test Leads
Ⓡ 1134-1002S	60752	Case

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Sidekick® 7B

1134-5029

- Determines the stressed noise susceptibility of dry and working pairs
- Measures resistance, AC/DC volts, and capacitive kick
- Provides tone for twisted pair or crossed conductor identification
- Single setup for testing Tip-Ring, Tip-Ground, and Ring-Ground
- Minimal drying effect in all ranges
- Field replaceable leads
- Softcase with adjustable strand hook
- Low battery indicator light

SPECIFICATIONS

Dimensions	10.75" x 4.25" x 2.5"
Weight	2 lbs.
Resistance	Rx1: Reads 0 to 2000 Ω; Rx1K: Reads 0 to 2 MΩ
Leakage	Rx10K: Reads 0 to 20 MΩ
DC Voltage	0 to 100 Volts DC
AC Voltage	0 to 200 Vrms
Stress Test	0 to 82 dBrnC

	CAT. NO.	UPC NO.	DESCRIPTION
	1134-5029	60525	Sidekick 7B
R	1134-1002S	60752	Case
R	1131-0202	60751	Test Leads

Sidekick® V.O.C.

- Identifies defective inside wire and jacks
- Measures resistance, AC/DC volts, quasi square wave, and pair balance
- Identifies shorts, opens, crosses and grounds
- Replaces the need for other meters
- Provides tone for twisted pair or crossed conductor identification
- Single set-up for testing Tip-Ring, Tip-Ground, and Ring-Ground with ground connection
- Field replaceable leads
- Softcase with adjustable hook
- Low battery indicator light

SPECIFICATIONS

Dimensions	10.75 x 4.25 x 2.5 inches
Weight	2 lbs.
Resistance	Rx1: Reads 0 to 2000 Ω
	Rx1K: Reads 0 to 2 Megohms
Leakage	Rx10K: Reads 0 to 20 Megohms
DC Voltage	0 to 100 Volts DC
AC Voltage	0 to 200 Vrms
Stress Test	0 to 82 dBrnC
Operating Temp.	-4°F to +140°F
Power	Four AA batteries

1143-5000

	CAT. NO.	UPC NO.	DESCRIPTION
	1143-5000	60527	Sidekick V.O.C.
R	1134-1002S	60752	Case

CABLE & SERVICE TESTING

TM-700 Tele-Mate™ Telephone Test Set

TM-700

SPECIFICATIONS

Technical Specifications
Length:	9.25" (235 mm)
Width:	2.5" (64 mm)
Height:	3.25" (83 mm)

• Complete telephone set with ringer
• Phone-to-phone intercom, compatible with other SmartIntercom™ devices
• Modular or alligator clip connection
• Amplified loudspeaker line monitor
• Headset or handset operation
• Tone and pulse dialing
• Large 10-location speed dialing memory
• Multi-memory redial
• DTMF digit detection and measurement
• Tone output mode
• Caller ID with name display
• Call waiting Caller ID
• Missed call indication
• DSL compatible, high impedance monitor and filters
• Glow-in-the-dark keypad
• Line voltage and current display
• High voltage detect and lockout
• High current detect and lockout
• Uses 2 AA/LR6 batteries (included)
• Quick release belt-clip

CAT NO.	UPC NO.	DESCRIPTION	QTY.
TM-700	00984	TM-700 Tele-Mate™ TELEPHONE TEST SET	1

TM-500 Tele-Mate™ Telephone Test Set

TM-500

SPECIFICATIONS

Technical Specifications
Length:	9.25" (235 mm)
Width:	2.5" (64 mm)
Height:	3.25" (83 mm)

• Luminescent (glow-in-the-dark) keypad
• Can be used safely on a DSL enabled line
• High Impedance Monitor for monitoring line without disrupting existing traffic
• Over voltage and over current protection
• Tone and Pulse dialing for versatility on old and new phone lines
• Polarity test with LED indicator
• 32 digit last number redial and pause
• 10 number speed dial
• Adjustable volume control plus mute
• Pause
• Flash to generate a timed break recall
• Line powered, no battery needed
• Headset (included) for hands free operation
• RJ11 socket
• Quick release belt-clip

CAT NO.	UPC NO.	DESCRIPTION	QTY.
TM-500	00486	Telephone Test Set W/ ABN "Bed-Of-Nails" Croc Clips (POP)	1
TM-500T	00494	Telephone Test Set W/ ABN "Bed-Of-Nails" Croc Clips (Boxed)	1
TM-500i	00643	Telephone Test Set W/ Small Croc Clips (Boxed)	1

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N = NEW PRODUCT   R = REPLACEMENT PART   A = ACCESSORY   B = BARE TOOL

Nautilus Range Telephone Test Sets

PE961

- Waterproof tested to an IEC IP67 rating, these test sets are so impervious to water they can actually withstand submersion, though they actually float
- The PE961 features our DigAlert™ over-voltage alarm and lock-out function to reduce the risk of damaging or knocking out digital service lines
- Built-in DSL Filter
- 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 cord set with bed-of-nails and piercing pin clips
- Luminescent Keymat

CAT. NO.	UPC NO.	DESCRIPTION
PE930	60487	Telephone Test Set
PE945	60489	Test Set with Two-Way Hands Free
PE961	60511	Test Set with Two-Way Hands Free and DigAlert
A PE901	60492	Ground Start Cord Set
R PE902	60493	Cord Set

FEATURE	PE930	PE945	PE961
Monitor safe for data	✔	✔	✔
Adjustable Ringer	✔	✔	✔
Waterproof Design	✔	✔	✔
Loud Speaker Listening		✔	✔
Two-Way Hands Free		✔	✔
DigAlert™ Data Lock-out			✔
ADSL Compatible	✔	✔	✔

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ToneRanger

10101-50000

- Direct buried fault location, it gives an exact location to the fault.
- Locates open shield and open bond faults
- Locates twisted-pair resistance faults in aerial, underground, and direct buried cable
- Locates splits, opens and bridge taps
- Uses low voltage and does not damage cable, circuit cards, C.O. or subscriber equipment
- Sends Pair ID tone through wet pulp and saves service outage time on small count section throws
- Locates open shields and shield to earth faults
- Does not interfere with DSL, IPTV or digital services on adjacent lines
- NEW easy user interface

CAT. NO.	UPC NO.	DESCRIPTION
10101-50000	12734	TF1A Kit, ToneRanger Aerial
10101-51000	20206	TF1ABL Kit, ToneRanger Aerial and Buried
10101-51100	20202	TF1AP Kit, ToneRanger Aerial with Pair ID
10101-51200	12733	TF1AB Kit, ToneRanger Aerial with Buried Wand
10101-51300	12732	TF1AL Kit, ToneRanger Aerial with Layup Stick
10101-51400	52019	TF1ABLP Kit, ToneRanger with Aerial, Buried & Pair ID
52042471	–	Transmitter Test Cable

Throwmaster® Paragon

0529-0001

- Used by construction cable splicers all around the world
- Transfer telephone/broadband services during normal working hours.
- Does not interrupt important customers
- Simple to follow interface and process for successful transfer of circuits
- LED's on the cords aid in telling the user in the cut, transfer and splice
- Compatible with T-1, HDSL, HDSL-2, HDSL-4, ADSL and other services less than 10Mb/s
- Each step is automatically tested and verifies the circuit is complete at the end of the transfer

CAT. NO.	UPC NO.	DESCRIPTION
0529-0001	52901	Throwmaster® Paragon 519 Kit

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1155 Fault Loop Simulator

1155-7001

- Simulates 8 faults that can be used individually, or in a combination:
  - Cross battery
  - Resistive 5 kohm load to ground
  - Resistive 500 ohm short
  - Two balanced bridge taps
  - 60 ohm series resistance fault
  - 60 Hz Power Influence
  - High frequency noise
- 1910 foot cable length
- Battery operated
- Rugedized case
- Convenient Test Lead connections.
- Three access locations in the span for custOm faults
- Train users on real twisted-pair faults
- Test multiple test set functions such as RFL, TDR, Power Influence, Stress, Leakage, Resistance, impulse noise and others
- Verify results from the field in a controlled environment
- Demonstrates how noise increases with pair imbalances
- Show differences between shorts, bridge taps, series faults and opens with a TDR

CAT. NO.	UPC NO.	DESCRIPTION
1155-7001	57691	Test Set

4-6-8 Modular Adapters

PA1902

- Nylon-reinforced ABS plastic body.
- Easy-to-read wire layout.
- Removable/replaceable patch cord.
- Inline adapters.
- Snagless plugs.
- Belt clip.
- Notched copper contacts keep alligator clips attached during testing.

CAT. NO.	DESCRIPTION
PA1902	RJ45 Modular Adapter (8-way)
PA1903	RJ11 Modular Adapter (6-way)

TurTEL® Modular Adapters/Polarity Tester

46050

- Use with tone generators, test sets and other test devices to troubleshoot and isolate problems with telephone circuits
- Two jacks allow in-line testing without service interruption
- 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
- Patch cord included
- Heavy-duty stainless steel belt clip

CAT. NO.	UPC NO.	DESCRIPTION
46050	46050	TurTEL 8 Modular Adapter

TelScout® TS90

TS90INTL

- Two Pair Test Capability
- One-Step Setup
- Automatic Instrument Control Mode
- 45,000' (15 km) Fault Location Capability
- Splash and Drip Proof
- Single-Button Zoom Function
- Pair Comparison Mode
- Splits/Crosstalk Mode
- Intermittent Fault Location
- Measures Distance to Fault in Feet, Meters, or Time
- Configurable for Any Cable Type and Vp (0.300 to 1.000)
- Accurate (±3 ft. at 10,000 ft.)
- On-line Tutorials
- Large Backlit Display

SPECIFICATIONS

Environmental	Temperature – Operating: 32° F to 77°F (0° C to +45° C). Non-operating: 12° F to 92°F (-20° C to +60° C).Humidity – 95% RH, non-condensing. EMI Emissions – EN55011 class A. EN60555-2.
Power	Battery Operation – Battery Type: Six AA Alkaline. Operating Time: >4.5 hrs. with backlight off. Battery Saver: Selectable for 5 to 30 minutes or disabled.

SPECIFICATIONS

Physical	Dimensions	in.	mm
	Height	5.6	141
	Width	8.3	211
	Depth	1.8	43
	Weight	.lb	kg.
	Net	2.2	1

CAT. NO.	UPC NO.	DESCRIPTION
TS90INTL	26345	Telescout, International TS90
Ⓡ 012154500	60740	Leads
Ⓡ THM5BAT	60756	Rechargeable Battery Pack

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CableScout™ TV220 - TDR Cable Tester for CATV

TV220

- Easier-to-use GUI interface requires little or no training
- PC application is compatible with all the current operating systems
- Improved clarity and trace functionality makes it even easier to identify faults on-screen and determine noise versus the fault
- Even higher SNR and Resolution makes it easier to identify events that were previously difficult or impossible to find
- Zero dead zone at the launch allows the user to see faults immediately
- Improved trace update rate allows you to see changes to the fault faster (5 times/sec. versus 2 times/sec.)
- Higher capacity to hold traces
- USB interface for trace download
- Lighter weight and longer charge life with the new lithium-ion battery
- TestWizard™ one-button testing
- Automatic Return Loss Measurements
- Automatic Multiple Event Marking
- High-Resolution, Short Pulse Width (1 ns)
- Rugged enough to withstand a 2 meter drop

	CAT NO.	UPC NO.	DESCRIPTION
	TV220	00676	TDR for CATV Broadband
R	TV220-0350	17404	Soft Carrying Case
A	1155-1010	25877	Power Supply, AC-DC
A	174173401	21640	Vehicle DC Adapter/Charger
R	174326900	21641	Replacement Power Cord

SPECIFICATIONS

Output
Test Signal Output – 1/2 Sine
Amplitude – 4V into 75 Ω
Pulse Width – 1 ns, 5 ns, 25 ns
Output Impedance – 75 Ω
Acquisition System Bandwidth – 400 MHz

Return Loss
Automatic at cursor location
Resolution: ±1 dB
Input Protection – ±400 VDC + peak AC up to 440 Hz, 30-second duration
Maximum Distance Range – 12,000 ft. (3,658 m), depending on cable type and condition
Gain – 0 to 72 dB
Waveform Storage – Minimum of 20 waveforms with notes

Distance Accuracy
Feet:
0 to 2,000 ft.: ±2 ft. ± uncertainty in Vp 2,001 to 6,000 ft.: ±3 ft. ± uncertainty in Vp 6,001 to 12,000 ft.: ±4 ft. ± uncertainty in Vp Meters:
0 to 610 m: ±0.6 m ± uncertainty in Vp
611 to 1830 m: ±0.9 m ± uncertainty in Vp 1831 to 3658 m: ±1.2 m ± uncertainty in Vp

Display
Resolution: 640 x 440 (281,600 pixels)
Size: 7.2 inch
Type: High contrast LCD
Backlight: Operator switchable
Waveform Display Resolution – 0.33% of selected range, 4.5 cm (0.15 ft.) minimum
Display Ranges – Twelve display ranges from 6 ft. (1.8 m) to 12,000 ft. (3,658 m), plus single-button zoom window
Output Port – Serial 9-pin D type connector
Distance Measurements – Meters, feet, nanoseconds

SPECIFICATIONS

Power
AC Operation – Voltage Ranges: 110 V, 220 V, or 240 V with appropriate AC to DC adapter
Line Frequency: 50 Hz to 60 Hz
DC Operation –
Voltage Range: 9 to 16 VDC @ 1A (charging and operating)
Battery Operation – Type: Internal Li-Ion rechargeable battery
Operating Time: Typically 12 hours continuous operation (backlight off)
Battery Savers (user selectable) –
Shutoff: 5 to 30 minutes or disabled
Backlight: Shutoff 5 to 30 minutes, disabled, or always on

General Characteristics
Temperature – Operating: −10° C to +40° C (+11° F to +104° F) Non-operating: −20° C to +60° C (−4° F to +140° F) Humidity – 10% to 95% (non-condensing)
Field Usage – Shock, water, and dust resistant
Durability – Survives drop of 2 meters (6 ft.) to concrete in standard soft case. Drip proof, dust resistant
EMI Emissions – EN55011, Class A
EN60555-2
Safety – CE (Low Voltage Directive)

PHYSICAL

Dimensions	Centimeters	Inches
Height	24	9.5
Width	30	11.5
Depth	9	3.5
Weight	**Kilograms**	**Pounds**
Net	3	6.4

CableScout™ TV90

TV90

- High performance easy to use Time Domain Reflectometer for Coaxial testing applications
- Employs optimized pulsing and sampling, coupled with advanced filtering and signal-processing techniques to ensure clean waveform and easy identification
- Context-sensitive help screens for all functions
- Small, portable and lightweight 2.2 lbs. (1kg)
- Includes rechargeable battery pack
- Includes twisted pair adapter and test probe

CAT. NO.	UPC NO.	DESCRIPTION
TV90US	12600	TV90 CableScout™ TDR
[R] THM5BAT	60756	Rechargeable Battery Pack
[A] THM5AC	21729	AC Adapter 110V
[R] TS90-0350	21739	Soft Carrying Case

SPECIFICATIONS

- Easy to operate (help screens available for all functions)
- Fast fault finding with automatic gain and vertical waveform positioning
- One-button Expand/Full View Function and zoom control.
- Precision accuracy 0-200 ft +- 2 ft. 1% beyond.
- Range up to 4000 ft.
- High-resolution with optimizing pulse and sampling and advanced filtering
- Input Protection: 200 VDC + Peak AC.
- Rugged - designed for harsh environments
- Large 7.2-in. high-resolution backlit display.
- International power supply options

Environmental   Temperature:
Operating: 32° F to 77°F (0° C to +45° C).
Non-Operating: 12° F to 92°F (-20° C to +60° C).
Durability: Survives Drop test of 6 foot (2m) to concrete in soft case
Power: 110 V, 220 V, 240 V with appropriate power adapter
Battery type: 6 AA Alkaline and NiCad rechargeable pack. 4.5 hours continuous operation with adjustable battery saver modes

Standards   UL, FCC EMI, CAN/CSA, EN, and CE

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WIRE & CABLE IDENTIFICATION
Classic 77 Series Tone Generators

FEATURES / SPECIFICATIONS	77HP-G	77HP-G/6A	77M-G
Selectable Warble Tone	✔	✔	✔
Continuity Testing	LED & Beeper	LED & Beeper	LED
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		✔	
RJ11 & RJ45 socket	✔	✔	
Lanyard	✔	✔	
Battery Operated (9V not included)	✔	✔	✔

77HP-G   77HP-G/6A   77M-G

Classic 77 Series Tone Generators

77HP-G

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.

CAT. NO.	UPC NO.	DESCRIPTION
77HP-G	49991	77H-GP Tone Generator
77HP-G/6A	49992	77HP-G/6A Tone Generator (ABN clips)
77M-G	49993	77M-G Tone Generator (basic)

Note: Not for use on energized AC wiring

CAT. NO.	UPC NO.	DESCRIPTION
77CS	08686	Leather Belt Holster for Classic 77 Series Tone Generators

77CS

Replacement Piercing Clips

RPC

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

CAT. NO.	UPC NO.	DESCRIPTION
R RPC	08710	Piercing Clips

Station Master Pro

24B

- • Troubleshoot irrigation systems
- • Activate and cycle solenoids
- • Test solenoids for continuity
- • Send tone to identify wires
- • Measure clock voltage
- • Low battery indication
- • Easy-to-understand LEDs
- • Test leads with Bed-of-Nails and piercing Pin Clips
- • 1-year limited warranty

SPECIFICATIONS

Minimum Voltage for Clock LED (LED intensity increases as voltage increases)	15 VAC
Minimum Battery while Testing	10.5 VDC
Maximum Input Voltage between Test Leads	28 VAC
Solenoid Circuit Recharge Time	2.5 seconds
Maximum Distance Range to Activate one Solenoid	12 AWG Loop 3000-13000 feet
	14 AWG Loop 2000-8500 feet
	18 AWG Loop 500-3000 feet
Power Source	9V alkaline batteries
Battery Life	3 hours continuous
Operating/Storage Temp.	32°F - 122°F (0° - 50°C)

CAT. NO.	UPC NO.	DESCRIPTION
24B	86786	Station Master Pro

Station Master Pro Kit

24BK

- • Troubleshoot irrigation systems
- • Chatter mode for audible locating of valves
- • Activate any 24V AC valve solenoid
- • Test solenoids for continuity
- • Send tone to identify wires
- • Check clock AC voltage
- • Low battery indication
- • Easy-to-understand LEDs
- • Test leads with 'bed-of-nails' and piercing pin plips
- • Tracing valve wiring
- • Locates underground solenoids

SPECIFICATIONS

Minimum voltage for clock LED	15 V AC
Minimum battery while testing	10.5 V DC
Maximum input voltage between test leads:	28 V AC
Solenoid activate output voltage:	27 to 18 V AC
Battery:	2 - 9V Alkaline batteries
Operating/storage temperature:	32°F to 122°F (0°C to 50°C)
Relative humidity (max):	80%

CAT. NO.	UPC NO.	DESCRIPTION
24BK	86787	Station Master Pro Kit

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Professional GX Series Tone Generators

77GX

- 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
- 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

CAT. NO.	UPC NO.	DESCRIPTION
77GX	60556	77GX Tone Generator
77GX2	60560	77GX2 Tone Generator

Note: Not for use on energized AC wiring

AdapToner Modular Breakout Tone Generator

AT8

- The AT8 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
- 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
- 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)

CAT. NO.	UPC NO.	DESCRIPTION
AT8	08693	AdapToner Modular Breakout Tone Generator

Note: Not for use on energized AC wiring

LAN Toner with HUB Blink and Detect

- 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
- Blinks HUB, Switch Port, and PC activity lights for fast identification
- Detect LAN hubs & switches
- 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

CAT. NO.	UPC NO.	DESCRIPTION
AT8L	60583	LAN Toner

Note: Not for use on energized AC wiring

AT8L

Tone Test Set

- 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
- 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)

CAT. NO.	UPC NO.	DESCRIPTION
600LS	08680	Tone Test Set

Note: Not for use on energized AC wiring

600LS

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Alarm Loop Verifier/Tone Generator

- 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
- 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
- Battery operated (9V not included)

PE620

CAT. NO.	UPC NO.	DESCRIPTION
PE620	08665	Alarm Loop Verifier/Tone Generator

Note: Not for use on energized AC wiring

Data Mate™ Precision Tracing Tone Generator

- Trace wire or cable without interfering with digital two-way cable or ADSL services
- The model 7780 Data Mate™ Precision Tone Generator is intended to provide tone for tracing and troubleshooting communication circuits without disrupting digital traffic on the line or adjacent lines
- The high purity of the tracing tones combined with internal isolating filters allows safe tracing on circuits that carry digital services above the baseband (two-way cable and ADSL)
- The high-power differential output of the 7780 makes tones easy to find, even over long distances. Also useful for continuity testing and polarity testing, the 7780 provides the standard warble tone and talk battery supply

PE7780

- High Power Tone Output.
- Line Voltage and Polarity Indication.
- High Purity Tone Signal.
- Low Crosstalk.
- Low Battery Indicator.
- Filter-isolated Circuitry.
- Two-way Broadband Compatible.
- Modular and Telco Pro Alligator Leads.
- ADSL Service Compatible.
- Long Range.
- Popular, Standard Warble Tone Frequencies Continuity Testing
- Compatible with existing tone.

SPECIFICATIONS

Electrical

Output Power	+9dBm
Output Signal Frequency	577/982 Hz alternating
Output Impedence	3,500 ohms minimum, 25kHz to 1.1 MHz

Mechanical

Length 5.5" (140 mm)	Depth 1.0" (25 mm)
Width 2.25" (57 mm)	Weight 0.38 lbs. (0.17 kg)

CAT. NO.	UPC NO.	DESCRIPTION
PE7780	60777	Data Mate™ Tone Generator

Note: Not for use on energized AC wiring

Tone Probes Selection Guide

MODEL NO.	200B-G	200EP-G	200GX	200FP	200XP	500XP
Powerful 2" Rear-fire Speaker	✔	✔	✔	✔	✔	✔
One-button Operation	✔	✔	✔	✔	✔	Two-Button
Adjustable Volume Control	✔	✔	✔	✔	✔	✔
LED for Visual Signal Strength Indication		✔	✔	✔	✔	✔
Recessed Tabs for Telephone Test or Headset Connection			✔	✔	✔	
Headset Jack (audio shock protected)		✔				✔
LED Flashlight		✔				
Noise Filtration				✔	✔	✔
Replaceable Tip	✔	✔	✔	✔	✔	✔
Five-Minute Auto Shutoff				✔	✔	✔
Low-battery Indicator				✔	✔	✔
Battery Operated (9V not included)				✔	✔	✔
Water Resistant						✔
"Mains Power" Warning (acAlert® option)						✔
Patented				✔	✔	✔

200B-G   200EP-G   200GX   200FP   200XP   500XP

Tough & Water Resistant Multi-Filter Tone Probe

500XP

- Water resistant (floats) and tough, combined with all the very best digital signal processing filtering 500XP will help identify signals buried in the worst of noise
- Simple two-button operation with dual signal strength indicating LEDs can work with any tone generator
- Headset allows discrete use in quiet environments and can help in acoustiacally noisy areas
- Option to enable acAlert®, which helps warn users if brought near hazardous ac power voltages which may be inaudible if using the advanced filtering

CAT. NO.	UPC NO.	DESCRIPTION
500XP	01125	500XP Pair Tracing Probe (POS)
500XPB	01085	500XP Pair Tracing Probe (Boxed)
HS001	01126	Replacement Headset
500XPH	02642	500XP Pair Tracing Probe Holster

Tone Probe Amplifiers

200C

200EP-G

- Used in conjunction with any tone generator, Tone Probe Amplifiers permit wire and cable identification without having to make direct metallic contact with the conductor
- All models feature a 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 200B-G also includes adjustable volume control for precise identification
- The 200GX also includes an LED for visual signal strength indication and recessed telephone test set connectors
- The 200EP-G also includes a headset jack (audio shock protected) and an LED Flashlight for working safely behind furniture, inside racks or in dim lighting conditions

CAT. NO.	UPC NO.	DESCRIPTION
200B-G	49986	Tone Probe, Basic
200GX	60557	Tone Probe, Standard
200EP-G	49987	Tone Probe, Standard, with Headset Jack & Flashlight
200C	08670	Leather Belt Holster for 200 Series Tone Probe Amplifiers

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Filter Tone Probe

200FP

- By selectively filtering out 60Hz (or 50Hz) and its harmonics, the 200FP can be used with any tone generator for faster, more accurate, cable and wire identification
- 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
- Patented

| CAT. NO.	UPC NO.	DESCRIPTION
200FP	08672	Filter Tone Probe (60Hz mains)
200FP/50	60467	Filter Tone Probe (50Hz mains)

Multi-Filter Tone Probe

200XP

- Single button selects between default mode and two kinds of powerful noise filters
- Filtering means faster, more accurate pair tracing
- Digital signal processor for accuracy and sensitivity
- Durable, light weight
- Audible and visible signal detection
- Continuous, wide-range volume control
- Butt set terminals
- Field replaceable tip, spare tip included
- Uses a single 9V battery
- One probe for many applications
- Works with any tone generator
- The narrowband filter mode is especially well suited for 577Hz Telco tone sources and a version is available for 1kHz systems (983Hz)

CAT. NO.	UPC NO.	DESCRIPTION
200XP	60887	Multi-Filter Tone Probe (60Hz mains, 577Hz narrowband)
200XP/50	60888	Multi-Filter Tone Probe (50Hz mains, 983Hz narrowband)

Replacement Plastic Tips for 200 Series Probes

RPT-2
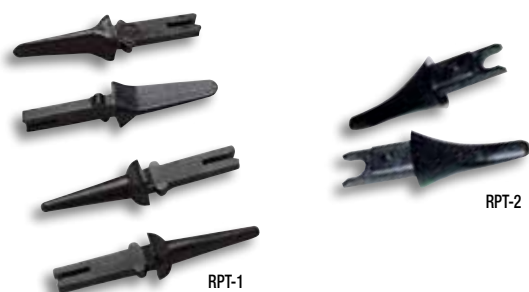
RPT-1

- Plastic tips perform much the same as traditional metal tips while reducing the risk of shorting terminals
- Specially formulated with a carbon powder and carbon fiber blended plastic
- Tips fit 200B, 200EP, 200GX, 200FP and 200XP probes
- RPT-1 comes with two pencil-style tips and two spade-style tips

	CAT. NO.	UPC NO.	DESCRIPTION
R	RPT-1	08711	Plastic Tips for 200B, 200EP, 200FP and 200XP
R	RPT-2	60561	Plastic Tips for 200GX

Replacement Metal Tips for 200B and 200EP Probes

RMT-1

- Metal tips provide maximum performance when probing insulated wires or making direct metallic contact
- Made of nickel-plated brass
- Tips fit 200B and 200EP probes
- Package contains two pencil-style tips

	CAT. NO.	UPC NO.	DESCRIPTION
R	RMT-1	08709	Metal Tips for 200B and 200EP Probes

Precision Tone Generator

177

- Used in the telecommunications industry for pair identification and fault locating
- Supplies a precise 577.5Hz crystal controlled signal frequency.
- Variable output allows technicians to adjust signal strength to suit field conditions and improve accuracy
- Designed to work with any common amplifier and exploring coil for aerial fault locating
- For communications over inactive pairs, the unit supplies talk battery to power two telephone test sets (buttsets)
- Each of the three test leads is equipped with traditional bent nose piercing clips with "bed-of-nails" insulation piercing pins
- The tone generator and test leads fit neatly in a durable, protective woven polyester carrying case with shoulder strap
- Battery-operated (1 – 6V lantern included)

CAT. NO.	UPC NO.	DESCRIPTION
177	08657	Precision Tone Generator

SPECIFICATIONS

Power Requirements	One 6V lantern battery
Battery Life	40 hours nominal
Transmitter Frequency	577.5Hz pulsed at 1Hz, crystal controlled
Output Voltage	0.1 to 80Vp-p
Output Signal Level	0 to +30dBm
Construction	High impact ABS plastic in woven polyester case
Dimensions	7.25" x 5.5" x 4.5" in case
Weight	3 lbs. with battery

T-Bug® Digital Signal Identifier

0134-0500

- 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
- 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 pair
- False readings due to noise are virtually eliminated
- Continuous self test ensures that the unit is functioning properly
- Emits both visible and audible indication when digital signals are present
- Patented

CAT. NO.	UPC NO.	DESCRIPTION
0134-0500	60764	T-Bug® Digital Signal Identifier

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Classic Tone and Probe Kits

701K-G

- 701K-G Kits include the 77HP-G High Power Tone Generator and the 200EP Tone Probe Amplifier in a rugged, woven nylon carrying case (700C)
- 601K-G Kit is a more basic version of the 701K-G kit, and includes the 77M-G Tone Generator and the 200B-G Tone Probe amplifier in a zippered nylon pouch

CAT. NO.	UPC NO.	DESCRIPTION
601K-G	49989	Classic Tone and Probe Kit, Basic
701K-G	49990	Classic Tone and Probe Kit, Standard
701K-G/6A	35775	Classic Tone and Probe Kit, Standard with ABN clips

Premium Tone and Probe Kit

801K

- Designed for more accurate wire identification, the 801K virtually eliminates power-related noise from the tone and probe operation
- Kit includes the 77HP/6A High Power Tone Generator and 200 FP Filter Probe in a convenient Cordura® case (700C).

CAT. NO.	UPC NO.	DESCRIPTION
801K	08690	Premium Tone and Probe Kit
801K/50	60466	Premium Tone and Probe Kit (50Hz)

Xpert Tone and Probe Kit

811K

- The Xpert Tone and Pobe Kit includes the 77GX (or 77GX2) Tone Generator and 200XP Multi-Filter Tone Probe Amplifier in a rugged, woven nylon carrying case
- Especially suited for tracing in noisy environments

CAT. NO.	UPC NO.	DESCRIPTION
811K	36001	Tone and Probe Kit, Xpert
811K/6A-BOX	26375	Tone and Probe Kit, Xpert with ABN clips

AdapToner Kit
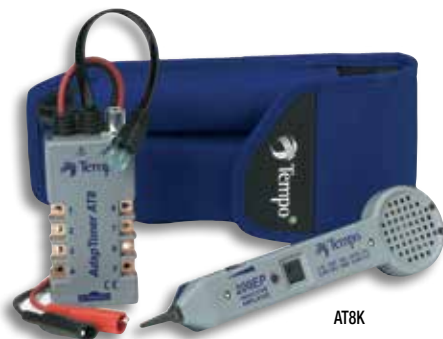
AT8K

- Designed for fast, accurate wire identification by combining the features of our tone generators and modular breakout adapter
- Kit includes the AT8 Modular Breakout Tone Generator and 200EP Inductive Amplifier in a convenient carrying case (700C)

CAT. NO.	UPC NO.	DESCRIPTION
AT8K	08694	AdapToner Kit

802K Digital LAN Tracing Kit

- The 802K Digital LAN Tracing Kit is a powerful, unique troubleshooting and tracing solution for LANs and other types of VDV wiring. The industry standard 200FP filter probe (60Hz) is designed to eliminate hum from fluorescent lights and AC power wiring that can obscure tracing tones
- The AT8L LAN Toner not only generates multiple tracing tones and provides basic wiring tests, but indicates the presence of 10/100Base-T network service

CAT. NO.	UPC NO.	DESCRIPTION
802K	36000	Digital LAN Tracing Kit

802K

LAN Toner Kit

- 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
- Kit includes the AT8L LAN Toner and the 200GX Inductive Amplifier in a rugged, woven nylon carrying case (700C)

CAT. NO.	UPC NO.	DESCRIPTION
AT8LK	60584	LAN Toner Kit

AT8LK

CATV Cable Tone Test Kit

- Designed specifically for the CATV industry, this kit allows you to tone through splitters, directional couplers and traps
- Simple to use, the 402K provides accurate results and will eliminate long delays trying to figure out non-tagged or mis-tagged cable drops
- 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 (700C)
- 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

402K

CAT. NO.	UPC NO.	DESCRIPTION
402K	08677	CATV Cable Tone Test Set
R 402T	60376	Transmitter
R 402R	60377	Receiver
R CS9	60374	Male to male F-connector adapter cable
R CS19	60378	F-connector to alligator clip

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Security and Alarm Kit

- 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
- To better satisfy industry requirements, we've combined the Model PE620 Tone Generator with the popular Model 200EP Inductive Amplifier in a durable woven nylon pouch (700C)

620K

CAT. NO.	UPC NO.	DESCRIPTION
620K	08682	Security and Alarm Kit

Tone and Probe Plus Cable-Check™

RJ45 LAN Tester
- True cable mapping function identifies:
  - Good connection, opens, shorts and crosses
  - Connector and cable pin-out
  - Clear LED display for each pin and shield
  - Shielded RJ45 modular plug socket
- Automatic display of mapping with dual speeds: slow or fast
- Tests RJ11 and RJ45 cables with runs up to 600'
- Check polarity of telephone line
- View telephone line status: dial tone, ringing or busy line
- Provides talk power for telephone lines and butt set use
- Selectable dual/single tone application for balanced and unbalanced circuits
- Four tone generator patterns
- Test continuity of wires, cables and loads
- Tone generator features auto-off function
- Jack for headset
- Audible speaker with adjustable volume control

PA1573

CAT. NO.	DESCRIPTION
PA1573	Tone & Probe Plus Cable-Check™ Kit

Cabling Pouch

750C

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

CAT. NO.	UPC NO.	DESCRIPTION
750C	08685	Cabling Pouch

Tone and Probe Carrying Case

700C

- Allows you to build your own kit using any tone generator and 200 Series probe
- Durable woven nylon
- Fits belts up to 3" wide

CAT. NO.	UPC NO.	DESCRIPTION
700C	08683	Tone and Probe Carrying Case

STRUCTURED WIRING TESTERS
NETcat® Pro 2 NC-500

NC-500

NC-510
(NC-500 not included)

NC-520

- Test and troubleshoot telephone, data and coax wiring
- NETcat Pro 2 Additional Features:
  - Gigabit device capability detection (still detects 10baseT and 100baseT too)
  - Cable type, velocity of propagation library, user editable
  - Power over Ethernet (PoE) detection
  - Memo pad
- Detect split pairs, short circuits, broken and crossed wires
- Step TDR technology shows length to open or short of all pairs
- Test shielded twisted-pair (STP), unshielded twisted-pair (UTP) & coaxial cables.
- Test patch cords and remote jacks
- Touch-screen control, included stylus slots into main unit
- Large icons ensure easy use with your finger too
- Large 3" (76mm) backlit high-contrast (user adjustable) monochrome display is highly visible in dark or brightly lit areas
- Remote test and ID unit stores in base of main unit
- Can identify up to 8 remote test ID units (7 extra available in NC-510 accessory kit along with carrying case)
- Tone generator with four selectable precision frequency tones, compatible with Greenlee advanced digital signal processing probes
- Operates on single 9V battery with low battery indication

SPECIFICATIONS

Dimensions	3.3" x 1.4" x 6.7" (8.5 cm x 3.5 cm x 17 cm)	
Weight	0.45 lb. (200 g)	
Power Requirements	9V Alkaline battery (PP3)	
User Interface	Display LCD	Dot Pixels: 128 x 128 dots
	Viewing Area	60.0 x 58.4
	Backlight	White LED
	Buttons	LCD touch-screen, Single momentary contact push button
Environmental	Operating Temperature	0°C to 50°C
	Storage Temperature	-20°C to 70°C
Interface Connections	RJ45 shielded jacks	
	F-type threaded female coaxial connectors	
TDR Calibration	User selectable based on a known cable length. 40% to 100% in steps of 1%	
TDR Range	0 to 2000 ft. -	
Resolution	1 ft. (0.3 m)	
Accuracy to Open/Short	±4% or 2 ft. (0.6 m) whichever is greater	
Remote Identifier	2000 ft. (609.6 meters) maximum distance	
Wiremap	358 ft (100 meters) maximum distance	

NC-500 Contents:
- NETcat Pro 2 main unit with stylus
- Removable remote jack and patch lead test and ID unit
- Twisted-pair (modular RJ45), coax (F) and alligator clip test cords
- 9V alkaline battery

NC-510 NETcat Pro 2 Accessory Kit Contents:
- Seven additional remote jack test and ID units, RJ45 and F (male)
- Carrying case to hold additional remote test ID units and content of NC-500 main kit

NC-520:
- Netcat Pro 2 Main Unit With Stylus
- Removable Remote Jack And Patch Lead Test and Id Unit
- Twisted-Pair (Modular Rj45), Coax (F) And Alligator ClipTest Cords
- Seven additional remote jack test and ID units, RJ45 and F (male)
- Carrying case to hold additional remote test ID units and content of NC-500 main kit
- 9V Alkaline Battery

CAT. NO.	UPC NO.	DESCRIPTION
NC-500	23639	NETcat Pro 2 Digital VDV Wiring Troubleshooter
A NC-510	23640	NETcat Pro 2 Accessory Kit w/carry case
NC-520	05450	Netcat Pro 2 Main Unit With Stylus

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NETcat® Micro NC-100

NC-100

- Tests shielded twisted pair (STP), unshielded twisted pair (UTP) and coaxial cables
- TIA/EIA standard wiring pair verification
- Detects shorts, opens, reversed polarity, crossed and split pairs
- Generates three distinct, selectable digital tone patterns for cable tracing and troubleshooting
- Tracing modes can be adjusted for high performance LAN cables.
- Complete set of connector types standard (telephone, LAN and coax)
- Nested remote allows end-to-end testing of all wiring types
- Simple testing of LAN wiring and phone lines
- Detection of common wiring and connector errors
- Warning of hazardous voltages
- Checks for reversed telephone wires

SPECIFICATIONS

Dimensions	150 x 70 x 33mm	
Weight	220g including remote unit and battery	
Power Source	9V Alkaline battery (PP3)	
User Interface	**Display LCD**	Icon and seven segment type
	Backlight	Green LED
	Buttons	Four momentary contact push button
Environmental	Operating Temperature	0°C to 50°C
	Storage Temperature	-10°C to 60°C
	Humidity	up to 95% non-condensing
Interface Connections	RJ45 shielded socket	
	RJ12 6-way socket	
	F-type threaded female coaxial connectors	
Network Split Pair Detection	Minimum cable length	2 to 3 meters (5 to 10 ft.) depending on cable type
Pair Tracing Tones	Alternating frequencies of 577Hz and 983Hz are produced at three user selectable rates. Designed for standard tone probes, but compatible with precision digital Greenlee tone probes.	

CAT. NO.	UPC NO.	DESCRIPTION
NC-100	23636	NETcat® Micro Digital Voice Data and Video Wiring Tester

LAN ProNavigator® Tester & Remote

PA1543

PA901066

- Simple PASS/FAIL test results in one second allows technicians to quickly move on to the next test site
- Generates oscillating audio tone for use with tone probes to locate cables
- Tests data and telephone cables up to 320 feet (100 meters) for proper pairing for EIA/TIA-568A, EIA/TIA-568B, Token Ring, 10 Base T, and common category 5 configurations
- Tests unshielded UTP and shielded STP data cable
- Detects good connections, open connections, crossed wires and split pairs
- Tests common BNC connected 50 and 75 ohm coaxial cables up to 320 feet (100 meters) for continuity
- Tests coaxial cable types RG58, RG59, RG6, RG6 Quad, Belden 8281, RG8, RG11 and more
- Belt clips provided and lanyard holes embedded in case to attach to belt or wrist
- Features low battery test and auto-off function to preserve battery life
- Includes standard 9V battery

CAT. NO.	DESCRIPTION
PA1543	LAN ProNavigator® test set (main & remote), 2 RJ45 patch cords, 2 belt clips, 12 oz.(342 g)
PA901066	LAN ProNavigator® test set (main & remote), 2 RJ45 patch cords, 2 BNC coaxial cables, 2 CATV "F"-to-BNC adapters, 1 BNC/BNC adapter, 1 shielded RJ45 coupler, 2 belt clips in durable case
PA901074	Adapter, CATV "F" (female) to BNC (male)

NOTE: May not be compatible with CAT-6 flat or oval cable, or bonded cable.

SPECIFICATIONS	MAIN	REMOTE	KIT
Weight	8 oz. (228 g)	2 oz. (57 g)	2 oz. (1140 g)
Dimensions	5.25" x 6.75" x 2.25"	3.45" x 1.6" x 0.9"	8.5" x 7.6" x 3"
	133 mm x 171 mm x 57 mm	87 mm x 41 mm x 24 mm	216 mm x 193 mm x 76 mm

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Wiremap Tester

- Quickly identifies opens, shorts, reversals and transposed pairs
- 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
- 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 Greenlee Communications inductive amplifier (probe) to locate the corresponding plug or jack
- Battery operated (9V not included)

468

CAT. NO.	UPC NO.	DESCRIPTION
468	08661	Wiremap Tester
® 468C	60382	Carrying Case for the Wiremap Tester
® 468T	60379	Transmitter
® 468R	60380	Receiver
® CSI0	60381	Modular Adapter Cable

Data/Link ID and Cable-Check™

- Cable mapping function tests data & phone connection schemes including patch cords and installed cables
- Identifies cross-over telephone connections
- Detects PC (NIC) & HUB data transmissions and PC (NIC) & HUB NLP or FLP link pulse
- Identify data & link transmission speeds with real time detection: 100/10 MB
- Automatically scans with choice of slow or fast speeds
- Low battery detection on LAN ID tester
- Includes 9V battery, 2 RJ45 patch cords and durable nylon carrying case with belt loop

PA1576

CAT. NO.	DESCRIPTION
PA1576	Data/Link ID and Cable-Check™

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LAN Cable-Check™

PA1574

- Identifies cross-over telephone connections
- Automatically scans when cables connected and unit turned on
- Two scan speeds: fast or slow
- Maps connector and cable pin-out
- Tests cables up to 1,650' or 500 m
- Also tests RJ11 connections using an RJ11 adapter (not included).
- 2, RJ45 patch cords and 9V battery included
- Contained in a durable nylon carrying case with belt loop

CAT. NO.	DESCRIPTION
PA1574	LAN Cable-Check™ Tester

LAN and A/V Cable-Check™

PA1594

Network
- Tests RJ45 patch cords and network installations to identify good connections, opens, shorts or cross-connections
- Identifies data and telephone connection schemes
- Maps cable pin-out

Coax
- Tests continuity of cords and installed cable runs
- Identifies good connections, opens and shorts

Features and Benefits:
- Automatic scanning
- User selectable slow or fast speeds
- Quickly check cable installations and patch cords
- Easy-to-use with clear LED read-outs

Includes:
- 2 RJ45 patch cords
- 75-ohm male terminator
- Cable TV "F" female adapter
- 9V battery
- Durable, nylon carrying case
- RCA to CATV "F" adapter.

CAT. NO.	DESCRIPTION
PA1594	LAN and A/V Cable-Check™

PC Cable-Check™ PRO

PA1577

- Quickly & easily troubleshoot cables to eliminate the cable as the source of a problem
- True cable mapping for over 20 different cable types: BNC coax & S-Video, VGA, Firewire, USB & Mini-USB, PS/2, parallel printer, RS-232 serial and Cat5e or Cat6 LAN
- Supports these connectors: male and female DB9, DB15, DB25 and HDB15; 36-pin Centronics printer; RJ11, RJ12, RJ45 shielded & unshielded; BNC coax female; male and female mini-DIN6; female mini-DIN4; USB-A and USB-B; mini-USB 5-pin; IEEE 1394 FireWire 4- and 6-pin
- Tests 50 ohm cables up to 1000' (305 m) & 75 ohm cables up to 600' (183 m)
- Easy to read and understand LED indicator lights
- New rugged case with built-in handle for easy transport
- Auto scan or manual scan modes
- Rubber feet grip to desk or bench to prevent slipping
- Auto-off after 30 seconds of non-use to extend battery life
- 9V battery included

CAT. NO.	DESCRIPTION
PA1577	PC Cable-Check™ Pro

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BURIED FACILITY LOCATION AND MARKING

Tracker II

501

HS-1 (08695)
Optional headset is available for use in high-traffic areas or other noisy environments.

- Traces the path and determines the depth of wires and metallic pipes on active or dead systems without having to deactivate the system
- 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
- Includes transmitter assembly, receiver assembly, inductive coupler (clamp), built-in inductive antenna, two 8' (2.4 m) test leads with heavy-duty alligator clips and 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

CAT. NO.	UPC NO.	DESCRIPTION
501	08662	Tracker II
[R] 501T	60353	Transmitter
[R] 501R	60352	Receiver
[R] IC1	60354	Inductive Clamp
[R] CS16	60355	Transmitter Cord Set
[R] 500CA	60351	Case with Antenna

SPECIFICATIONS

Power Requirements	Transmitter – (8) AA batteries; Receiver – (1) 9V battery
Battery Life	Transmitter – 30 hours nominal; Receiver – 10 hours nominal
Transmitter Frequency	447.5kHz
Transmitter Power	40Vp-p (140mW) maximum
Voltage Protection	240VAC/500VDC
Automatic Shut Off	90 Min. Transmitter and Receiver
Construction	Transmitter/Receiver – powder coated aluminum
	Case – vacuum formed polyethylene
Dimensions	Transmitter – 4.25" x 3" x 3.25" (108 x 76.2 x 82.6 mm)
	Receiver – 32" x 2.75" x 4" (812.8 x 69.9 x 101.6 mm)
	Case – 33.5" x 8.25" x 3.75" (850.9 x 209.6 x 95.3 mm)
Weight	6.7 lbs. complete kit (3.04 kg)

Buried Line Locator

BLL-200

- 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
- Traces 20' (6 m) underground and provides depth readings up to 15' (4.57 m).
- Transmitter can be connected to live lines up to 600V
- Molded carrying case included
- Limited Lifetime Warranty

CAT. NO.	UPC NO.	DESCRIPTION
BLL-200	07796	Buried Line Locator

SPECIFICATIONS

Transmitter		Receiver	
Operating Voltage	0-600VAC, 0-300 VDC	Depth Range	Measures: 0-15 ft Traces: 0-20 ft.
Current	13mA (open line) 150mA (live or shorted line)	Depth Resolution	0.1 ft. increments
		Passive Trace Frequency	- 12Hz-24kHz
Frequency	33.3kHz	Operating Temperature	0°F to 120°F
Operating Temperature	0°F to 120°F (-17°C to 50°C)		(-17°C to 50°C)
		Size	4.1" x 8.5" x 38"
Size	7.5" x 4" x 2.1" (190.5 mm x 101.6 mm x 53 mm)		(104.1 mm x 215.9 mm x 965.2 mm)
		Power	6 VDC (4 AA batteries)
Power	6 VDC (4 AA batteries)	Weight	1 lb. 12 oz. (794 g)
Weight	15 oz. (425 g) (with batteries and clamp)		

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Pulser Fault Locator

PE2003
Great complement to any buried line cable locator.

PE2003

- 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
- 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
- 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 are included)
- Molded carrying case included

SPECIFICATIONS

Power Requirements	Transmitter: (1) 12V rechargeable battery
	Receiver: (1) 9V battery
Battery Life	Transmitter: 23 hours per charge; Receiver: 200 hours
Transmitter Power	2400VDC peak
Voltage Protection	240VAC/400VDC
Construction	Transmitter – aluminum housing in polyethylene case
	Receiver – powder coated aluminum
Dimensions	Transmitter – 17" x 8.5" x 6.5" (421 mm x 215 mm x 160 mm) in case
	Receiver – 33.5" x 21.75" x 3.25" (840 mm x 550 mm x 8 mm) on A-Frame
Weight	12.5 lbs. (5.7 kg) complete

	CAT. NO.	UPC NO.	DESCRIPTION
	PE2003	08666	Pulser
R	2000H	60357	Transmitter (Includes CH1 & CH2)
R	2000R	60358	Receiver
R	AF2	60482	A-Frame
R	CH1	60360	AC Charger
R	CH2	60361	DC Charger
R	59F0002	66216	Battery, Replacement (12V 2.5 Ah)

Wire Finder/Mini Locator

508S

- Traces energized or non-energized wires in walls and drop ceilings
- Provides reliable results on buried cables to depths of 3' (1 m) and lengths up to 1000' (308 m)
- Determines the approximate depth of the wire before digging
- Compact design and easy-to-understand operations
- Fully adjustable transmitter and receiver for accurate locating
- Quick change test leads for use in any industry, even international power outlets
- Voltage protection to allow use on live AC circuits
- Automatic shut-off to prevent accidental battery discharge
- Housed in a durable, molded carrying case with a quick reference operation guide on the inside of the lid
- Battery-operated: (2) 9V batteries included

SPECIFICATIONS

Power Requirements	(1) 9V each (transmitter and receiver, included)
Battery Life	Transmitter 35 hours nominal; Receiver 20 hours nominal
Transmitter Frequency	447.5kHz
Transmitter Power	9Vp-p (11mW)
Voltage Protection	240VAC/500VDC
Construction	Transmitter/Receiver – high-impact ABS plastic,
	Case – vacuum-formed polyethylene
Dimensions	Transmitter – 4" x 2.3" x 1" (101.6 x 58.4 x 25.4 mm), Receiver –
	6" x 2.35" x 1" (152.4 x 59.7 x 25.4 mm),
	Case – 9.5" x 8" x 3"(241.3 x 203.2 x 76.2 mm)
Weight	2.6 lbs. (1.2 kg)

	CAT. NO.	UPC. NO	DESCRIPTION
	508S	08678	Wire Finder/Mini Locator
R	508ST	60363	Transmitter
R	508SR	60364	Receiver
R	CS14	60366	Alligator Clip Cord set
R	CS15	60367	AC Outlet Cord set

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Wire and Valve Locator

521A

- Adjustable transmit power allows you to select the best signal for maximum performance
- Transmitter's high power output offers extended range and use on higher resistance wire paths that other locators can't touch
- Receiver provides both audible and visual indications of signal strength.
- Lightweight receiver wand makes it easy for you to move along quickly to locate even the longest wire path
- Rugged headphones block ambient noise and improve "feel" for the signal
- Includes transmitter, receiver, headset, ground stake, and complete instructions
- Battery-operated: (8) "D" Cells and (1) 9V

CAT. NO.	UPC NO.	DESCRIPTION
521A	86788	Wire and Valve Locator
[R] 521A-R	12623	Receiver
[R] HS-1	08695	Headset

SPECIFICATIONS

Power Requirements	Transmitter: (8) "D" Cell; Receiver: (1) 9V battery
Battery Life	Transmitter: 50 hours nominal Receiver: 100 hours nominal
Transmitter Frequency	1748Hz
Transmitter Power	750Vp-p 285Vrms
Voltage Protection	120VAC/250VDC
Construction	Powder-coated aluminum housing in polyethylene case
Case Dimensions	33.5" x 8.25" x 3.75"
Weight	12 lbs. complete

Locators Application Guide

FEATURE	BLL-200	501	PE2003	508S	521A
Trace concealed wiring in walls and floors		•		•	
Locate junction box relays and transformers	•				
Locate switch gear	•				
Find shorts to ground			•[2]		•[1]
Trace wires in PVC (nonmetallic conduit)	•	•		•	
Find opens in a circuit					•
Localize power and lighting panels	•	•		•	
Operate on energized circuits	•	•		•	
Operate on telecom circuits	•	•	•	•	
Operate on power circuits (600VAC)	•				
Operate on unenergized circuits	•	•	•	•	•
Trace shielded cable	•	•[3]		•[3]	•[3]
Trace buried metal conduit					
Trace coax cable	•	•[5]		•[5]	•[4]
Auto gain circuitry for improved accuracy	•				
AC voltage range	0-600V	0-240V	0-240V	0-240V	0-120V
DC voltage range	0-300V	0-500V	0-400V	0-500V	0-250V
Distance–receiver from transmitter	5,000 ft.	•[7]	5000 ft.	1000 ft.	•[6]
Transmitter battery	(4) AA	(8) AA	12V rechargeable	(1) 9V	(8) D
Receiver battery	(4) AA	(1) 9V	(1) 9V	(1) 9V	(1) 9V

1. 10,000 ohms and less–both ends isolated from grounds.
2. Does not locate the path–has to be predetermined and only in direct burial applications. 5,000,000 and less.
3. Transmitter connected to metallic shield.
4. Will trace coax providing the b0nd is in place at the remote end–will disrupt service.
5. No sorting (high RF bleeds) can trace coax if transmitter connected to braid.
6. Low frequency locators need a "path to earth" (dirt), 5000 ft. on an open conductor and 2500 ft. on a metallic pipe at 3 ft. deep

7. Direct Connection 4,000 ft at 7 ft deep
   Inductive Coupler 1,000 ft at 3 ft deep
   Inductive Antenna 700 ft at 3 ft deep

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Marker-Mate®

- Designed to locate buried electronic markers, including Omni Marker™, and Uni Marker®
- Five+ foot depth range
- Detects up to seven different marker types
- Scan mode provides simultaneous detection of all marker types
- User-adjustable Detection Threshold
- Digital signal processor accuracy
- Large-character display is easy to read
- Bar graph, numeric & audible signal strength indicators
- Speaker volume adjust
- Headphone jack
- Battery level indicator
- Low battery warning
- Adjustable time out feature prolongs battery life (and can be turned off)
- Weather resistant
- Rugged construction

EML100

SPECIFICATIONS

Electrical:	Twelve AA batteries
	Battery Life: 20 hours typical
Environment:	
Operating Temperature:	-4°F to 122°F (-20°C to 50°C)
Storage Temperature:	-40°F to 158°F (-40°C to 70°C)
Weather Resistant	
Physical:	
Length:	30.7 in. (780 mm)
Width:	7.8 in. (198 mm)
Height:	12.8 in. (325 mm)
Weight:	4.5 lbs. with batteries (2 kg)

CAT. NO.	UPC NO.	DESCRIPTION
EML100	60798	Marker-Mate Electronic Marker Locator

Omni Marker™

LIFETIME
G
WARRANTY

- Electronically marks and relocates buried facilities
- 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
- Color coded by utility application
- Patented
- Limited lifetime warranty

APPLICATION	COLOR	FREQUENCY	CAT NO.	UPC NO.
Power	Red	169.8 kHz	0160-0001-1	60765
Water	Blue	145.7 kHz	0161-0001-1	60766
Sanitary	Green	121.6 kHz	0162-0001-1	60767
Telephone	Orange	101.4 kHz	0163-0001-1	60768
Gas	Yellow	83.0 kHz	0164-0001-1	60769
Cable TV	Orange/Black	77.0 kHz	0165-0001-1	60770
Non-Potable/Gen I	Purple	66.35 kHz	0168-0001-1	11050
EuroPower	Red/Blue	134.0 kHz	0181-0001-1	05160

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Uni Marker®

- Electronically marks buried facilities for later relocation
- 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
- Color coded by utility application
- Limited lifetime warranty

APPLICATION	COLOR	FREQUENCY	CAT NO.	UPC NO.
Power	Red	169.8kHz	0170-0001-1	60771
Water	Blue	145.7kHz	0171-0001-1	60772
Sanitary	Green	121.6kHz	0172-0001-1	60773
Telephone	Orange	101.4kHz	0173-0001-1	60774
Gas	Yellow	83.0kHz	0174-0001-1	60775
Cable TV	Orange/Black	77.0kHz	0175-0001-1	60776
Non-Potable/Gen I	Purple	66.35kHz	0178-0001-1	11059

FIBER OPTIC TEST EQUIPMENT
Optical Fusion Splicer

910FS

- Designed to meet virtually any FTTx installation – indoors and out. P2P installations including backhaul, cellular, and LAN
- Core alignment minimizes splice losses
- Fully compatible with Greenlee® Splice-On Connectors. 250 Splice/ Shrink cycles per battery charge

SPECIFICATIONS

Applicable Fibers	SM (G.652); MM (G.651); DS (G.653); NZDS (G.655); BIF (G.657)	**Fiber Display Magnification**	240X
Fiber Cleaved Length	10mm	**Tube Heating Mode**	20 Preset / User Definable Modes Adjustable 0-240 seconds
Cladding Diameter	80 to 150µm	**Tube Heating Time (Typical)**	36 seconds
Coating Diameter	100 to 1000µm	**Attenuator Mode**	0.1 to 15 dB
Fiber Count	Single	**Electrode Life**	3,000 Splices
Fiber Aligning Method	Auto Core Alignment	**Display**	5.7" Color, Turn-Over LCD
Splice Loss (Typical)	0.02 dB (SM); 0.01 dB (MM); 0.04 dB (DS); 0.04 dB (NZDS & BIF)	**Connectivity**	RS-232; USB
Splicing Mode	60 Preset / User Definable Modes	**Operating Conditions**	Pressure: 0 to 16,404 feet (0 to 5,000 meters) above Sea Level Humidity: 0 to 95% Temperature: 14 to 122°F (-10 to 50°C)
Splice Time (Typical)	9 seconds (SM)		
Number Of Splices Per Battery Charge	250 (including 60mm heat shrink cycle)	**Storage Conditions**	Temperature: -4 to 158°F (-20 to 70°C)
Splice-On-Connector	SC, LC, FC, ST	**Power Supply**	100 to 240V AC Adapter; Li-ion Battery (6600 mAh)
Arc Calibration Mode	Automatic and Manual		
Protection Sleeve Length	60mm, 40mm, Micro Sleeves	**Weight with Battery**	6.92 lbs (3.14 kg)
Storage Of Splice Results	5,000 Results	**Dimensions (HxWxD)**	7.08" x 6.29" x 6.10" (180 x 160 x 155 mm)
Tension Test	2N		

PA1171

CAT NO.	UPC NO.	DESCRIPTION
910FS	01328	Optical Fusion Splicer
910FS-KIT1	01433	Fusion Splicer & Cleaver Kit
910FS-KIT2	01432	Contractor Fusion Splicer Kit
910FS-ELEC	01329	Replacement Electrodes
910FS-PS	01330	Replacement Power Supply
910CL	01331	Optical Fiber Cleaver
910CL-BLADE	01640	Cleaving Wheel
910FS-250	01332	250µm Adapter
910FS-900	01333	900µm Adapter
910FS-SOC-SC-LC	01335	Adapter, Splice-On Connector, SC & LC
910FS-SOC-ST-FC	02401	Adapter, Splice-On Connector, ST & FC
910FS-BATT	01452	Battery (910FS)
910FS-EUR-CORD	02571	European Line Cord
910FS-UK-CORD	02570	UK Line Cord
910FS-CHARG	02641	Battery Charger
910FS-CAR-ADAPTER	25689	12 V DC Car Adapter
PA1171	12225	ProGrip 5-in-1 Fiber Optic Stripper

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Optical Fiber Cleaver

910CL

Note: If the 910CL is purchased without a splicer. Please order either the 250um or 900um adapters or the fixed clamp.

- Accurate Cleaves. Cleave multi-mode and single-mode fiber optic cables
- Long Life. Blades rotate for longer life - over 48,000 cleaves
- Adaptable. Supports 250um, 900um fibers
- For use with the 910FS Optical Fusion Splicer for maximum speed and efficiency
- Dust bin. Safely collects end cuts during cleaving process

SPECIFICATIONS

Applicable Fibers	SM (G.652); MM (G.651); DS (G.653); NZDS (G.655); BIF (G.657)
Fiber Cleaved Length	10mm
Cladding Diameter	125µm
Coating Diameter	0.25 mm and 0.9 mm
Fiber Count	Single
Cleaving Angle	< 1.5˚
Blade Life	48,000 Cleaves
Weight	0.56 lbs (255 g)
Dimensions	2.29" x 2.17" x 1.89" (58 x 55 x 48 mm)

CAT. NO.	UPC NO.	DESCRIPTION
910CL	01331	Optical Fiber Cleaver
910CL-BLADE	16403	Cleaving Wheel
910C-CLAMP	31529	Fixed Clamp with Screw (910CL)
910FS	01328	Optical Fusion Splicer
910FS-250	01332	250µm Adapter
910FS-900	01333	900µm Adapter
PA1171	12225	Buffer Strippers
PA1511	10312	Kevlar Cutter

Splice-On Connector

NEW PRODUCT

- Return loss: APC >60dB, UPC >55dB and MM 35dB (typical)
- 19 styles available: SM, MM, 10Gig
- Compatible with selected AFL, Sumitomo, and Fitel fusion splicers, suitable adapter may be required
- 900um boot protects splice for easy cable management
- Includes color coded 900um buffer, boot, cleave protector and extended dust cap for easy fiber indentification

SPECIFICATIONS

Connector Type	SM/APC	SM/UPC	MM/62.5UM	MM/50UM	MM/0M3	MM/0M4
Insertion Loss (Max)	0.3dB		0.4dB			
Optical Return Loss	>65dB	>55dB	35dB (Typical)			
Ferrule Type	All Zirconica Pre-Polished Ferrules					
Color Code	Green	White	Beige	Black	Aqua	Aqua
Operating Temperature	-40 to 85 degrees C					
Industry Standards	RoHS Compliant, Tecordia GR-326-CORE Compliant					

COMPATIBLE FUSION SLICERS

Manufacturer	AFL			Sumitomo	Fitel	INNO	FIS
Model	FSM11 (S/M)	FSM-17S	FSM-18S	Type-25e (U/S/M)	S122 (A/C/M/)	IFS10	CA3
			FSM-19S	Type-39FH	S121 (A/M)	IFS15	
			FSM-60(S/R)	Type-46	S123 (C/M)		
			FSM-70(S/R)	Type-66	S153		
				Quantum (Q101-CA)	S178A		
Compatible fiberTOOLS® SOCs	All Versions	SC and LC Only	SC,LC and ST Only	All Versions	All Versions	All Versions	All Versions

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Splice-On Connectors & Adapters

	CAT. NO. (12 PACK)	UPC	CAT. NO. (100 PACK)	UPC	DESCRIPTION
N	SCAPC-SOC-12	02302	SCAPC-SOC-100	02360	SC/APC Singlemode, Green 900µm Boot
N	SCUPC-SOC-12	02303	SCUPC-SOC-100	02361	SC/UPC Singlemode, Blue 900µm Boot
N	SC62-SOC-12	02304	SC62-SOC-100	02364	SC/PC 62.5µm Multimode (OM1), Beige 900µm Boot
N	SC50-SOC-12	02305	SC50-SOC-100	02365	SC/PC 50µm Multimode (OM2), Black 900µm Boot
N	SCOM3-SOC-12	02306	SCOM3-SOC-100	02368	SC/PC 50µm Multimode (OM3), Aqua 900µm Boot
N	SCOM4-SOC-12	02308	SCOM4-SOC-100	02371	SC/PC 50µm Multimode (OM4), Aqua 900µm Boot
N	FCAPC-SOC-12	02313	FCAPC-SOC-100	02372	FC/APC Singlemode, Green 900µm Boot
N	FCUPC-SOC-12	02314	FCUPC-SOC-100	02377	FC/UPC Singlemode, Blue 900µm Boot
N	FC62-SOC-12	02316	FC62-SOC-100	02378	FC/PC 62.5µm Multimode (OM1), Beige 900µm Boot
N	FC50-SOC-12	02322	FC50-SOC-100	02379	FC/PC 50µm Multimode (OM2), Black 900µm Boot
N	FCOM3-SOC-12	02323	FCOM3-SOC-100	02381	FC/PC 50µm Multimode (OM3), Aqua 900µm Boot
N	FCOM4-SOC-12	02328	FCOM4-SOC-100	02384	FC/PC 50µm Multimode (OM4), Aqua 900µm Boot
N	STUPC-SOC-12	02330	STUPC-SOC-100	02385	ST/UPC Singlemode, Blue 900µm Boot
N	ST62-SOC-12	02332	ST62-SOC-100	02386	ST/PC 62.5µm Multimode (OM1), Beige 900µm Boot
N	ST50-SOC-12	02334	ST50-SOC-100	02387	ST/PC 50µm Multimode (OM2), Black 900µm Boot
N	STOM3-SOC-12	02335	STOM3-SOC-100	02388	ST/PC 50µm Multimode (OM3), Aqua 900µm Boot
N	STOM4-SOC-12	02343	STOM4-SOC-100	02389	ST/PC 50µm Multimode (OM4), Aqua 900µm Boot
N	LCAPC-SOC-12	02345	LCAPC-SOC-100	02390	LC/APC Singlemode, Green 900µm Boot
N	LCUPC-SOC-12	02346	LCUPC-SOC-100	02395	LC/UPC Singlemode, Blue 900µm Boot
N	LC62-SOC-12	02348	LC62-SOC-100	02397	LC/PC 62.5µm Multimode (OM1), Beige 900µm Boot
N	LC50-SOC-12	02351	LC50-SOC-100	02398	LC/PC 50µm Multimode (OM2), Black 900µm Boot
N	LCOM3-SOC-12	02355	LCOM3-SOC-100	02399	LC/PC 50µm Multimode (OM3), Aqua 900µm Boot
N	LCOM4-SOC-12	02359	LCOM4-SOC-100	02400	LC/PC 50µm Multimode (OM4), Aqua 900µm Boot

	ADAPTER	UPC	DESCRIPTION
R	AFL SOC ADAPTER	01304	AFL/Fujikura SOC Adapter
R	FITEL SOC ADAPTER	02052	Furakawa/Fitel SOC Adapter
R	SUMI SOC ADAPTER	02058	Sumitomo SOC Adapter
R	INNO SOC ADAPTER	02060	Inno SOC Adapter
R	FIS SOC ADAPTER	02062	FIS Super Cougar SOC Adapter

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930XC Handheld Singlemode OTDR

NEW PRODUCT

	CAT. NO.	UPC NO.	DESCRIPTION
N	930XC-20C UPC SC	89882	Handheld OTDR, 1310/1550 nm, SC/UPC
N	930XC-20C UPC FC	89872	Handheld OTDR, 1310/1550 nm, FC/UPC
N	930XC-20C UPC ST	89877	Handheld OTDR, 1310/1550 nm, ST/UPC
N	930XC-20C APC SC	89892	Handheld OTDR, 1310/1550 nm, SC/APC
N	930XC-20C APC FC	89887	Handheld OTDR, 1310/1550 nm, FC/APC
N	930XC-30P UPC SC	19237	Handheld OTDR, 1310/1490/1550 nm, SC/UPC
N	930XC-30P UPC FC	19238	Handheld OTDR, 1310/1490/1550 nm, FC/UPC
N	930XC-30P UPC ST	19239	Handheld OTDR, 1310/1490/1550 nm, ST/UPC
N	930XC-30P APC SC	19240	Handheld OTDR, 1310/1490/1550 nm, SC/APC
N	930XC-30P APC FC	02618	Handheld OTDR, 1310/1490/1550 nm, FC/APC
N	930XC-30F UPC SC	19247	Handheld OTDR, 1310/1550/1625 nm, SC/UPC
N	930XC-30F UPC FC	19248	Handheld OTDR, 1310/1550/1625 nm, FC/UPC
N	930XC-30F UPC ST	02621	Handheld OTDR, 1310/1550/1625 nm, ST/UPC
N	930XC-30F APC SC	19249	Handheld OTDR, 1310/1550/1625 nm, SC/APC
N	930XC-30F APC FC	19250	Handheld OTDR, 1310/1550/1625 nm, FC/APC
A	930XC-20M PC FC	25688	Handheld OTDR, 850/1300 nm, FC/PC
A	930XC-20M PC SC	25689	Handheld OTDR, 850/1300 nm, SC/PC
A	930XC-20M PC ST	25690	Handheld OTDR, 850/1300 nm, ST/PC
R	946	60571	Cleaning Wand 10/PK
R	948	60692	REEL Cleener CONN Cleaner (948)
A	20988	20988	Soft Carrying Case
A	20989	20989	USB Cable for OTDR
A	20990	20990	RS-232 Cable
A	AC-CONN-FC-L2	20996	FC Connector (for UPC & APC)
R	AC-CONN-ST-L2	20997	ST Connector (for UPC only)
R	AC-CONN-SC-L2	20998	SC Connector (for UPC & APC)
A	AC-ADPT-20-UNIV	25691	Power Supply Universal
	930XC-QR	25692	Quick Reference Guide - UN
	20999	20999	NiMH Battery (9.6V)
	1155-0526	10582	Car Adapter
	930XC-SM-MM	02729	OTDR Kit - Single and Multimode OTDR Kit.

- Up to 38 db dynamic range
- Large backlight LCD display
- Measure length and defects of coiled fiber
- Fiber analysis software for data management and report generation
- 1625 nm operation for live fiver testing
- RS-232/USB interface
- Economical
- Compact handheld design
- Easy to use
- Fast automated testing
- NiMH batteries for 8 hours continuous use

SINGLEMODE SPECIFICATIONS

Fiber Type	930XC-20C	930XC-30F	930XC-30P	930XC-20M
Wavelength (± 20nm)	1310/1550	1310/1550/1625	1310/1490/1550	800/1300
Dynamic Range (dB)	35	38	38	18/22
Event deadzone (m)	2.5	1.5	2.5	7
Attenuation Deadzone (m)	14	10	14	20
Emitter Type	Laser			LED
Pulsewidth (ns)	5, 10, 30, 100, 300, 1 us, 2.5 us, 10 us, 20 us			12/30/100/275/1us (850nm) 30/100/275/1us/2us (1300nm)
Selectable Ranges (km)	0.3/1.3/2.5/5/10/20/40/80/120/160/240			0.1/0.3/0.5/1.3/2.5/5/10 (850nm) 0.1/0.3/0.5/1.3/2.5/5/10 /20/40/80 (1300nm)
Average Time	15s/30s/1 min/2 min/3 min			
Distance measurement accuracy	$\pm(1m + 5 \times 10^{-5} \times \text{distance} + \text{sampling space})$			
Connector Type	UPC or APC (interchangeable FC, SC, ST)			
Visual Fault Locator				
Wavelength	650 nm			
Peak power output	-3 dBm			
Connector interface	(interchangeable FC, SC, ST)			
Fiber Analysis Software				
Reflection detect accuracy	±4 dB			
Attenuation detect accuracy	±0.05 dB/dB			
Measurement data storage	1,000 test curves			
Data transmission	RS-232/USB port			
General				
Power Supply	NiMH chargeable battery/AC adapter			
Battery Life	Support over 8 hours operating on one charge or over 20 hours standby			
Operating Temperature	-10° to 50° C			
Storage Temperature	-20° to 60° C			
Relative Humidity	0 to 95% (non-condensing)			
Weight	1.9 lbs. (0.87 kg)			
Dimensions	7.7" H x 3.9" W x 2.4" L (196mm x 100mm x 64mm)			

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Fiber Identifier

NEW PRODUCT

FI-100

- Non-intrusive low insertion loss prevents alarm conditions
- Identifies fiber with tone detect and a clear indication of signal transmission direction
- Supports all common fibers including 250µm, 900µm, 2mm, and 3mm and is able to sense light in bend insensitive fibers

SPECIFICATIONS

Identified Wavelength Range	800-1700nm
Identified Signal Type	270Hz ±5%, 1kHz ±5%, 2kHz ±5%
Detector Type	1mm InGaAs
Adapter Types	Ø0.25 (Applicable for Bare Fiber)
	Ø0.9 (Applicable for Ø0.9 Cable)
	Ø2.0 (Applicable for Ø2.0 Cable)
	Ø3.0 (Applicable for Ø3.0 Cable)
Signal Indication	Left & Right LED
Signal Direction Test Range (CW/0.9mm fiber)	-46 to 10dBm (1310nm)
	-50 to 10dBm (1550nm)
Signal Power Test Range (CW/0.9mm fiber)	-50 to +10dBm
Signal Frequency Display	270Hz, 1kHz, 2kHz
Tone Detect Test Range (Average)	Ø0.9, Ø2.0, Ø3.0 -30 to 0dBm (270Hz, 1kHz) -25 to 0dBm (2kHz)
	Ø0.25 -25 to 0dBm (1kHz, 2kHz) -20 to 0dBm (2kHz)
Insertion Loss (Typical/ Maximum)	0.3 / 0.8dB at 1310nm
	1.5 / 2.5dB at 1550nm
Battery	AAA Alkaline (2)

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-10 ° C to +60° C
Storage temperature	-25° C to +70° C
Dimensions	14.2 x 4.3 x 3.3 cm (5.6 x 1.7 x 1.3 in.)
Weight	120 g (4.2 oz.) with batteries
Certifications	CE, FCC, WEEE

	CAT. NO.	UPC NO.	DESCRIPTION
N	FI-100 Kit	03353	Fiber Identifier Kit
R	FI-100-250	03354	250µm Adapter
R	FI-100-900	03355	900µm Adapter
R	FI-100-2MM	03356	2mm Adapter
R	FI-100-3MM	03357	3mm Adapter
R	FI-100-CASE	03358	Soft Carry Case
R	FI-100-SUNSHADE	03359	Sun Shade

180XL Visual Fault Locator

NEW
PRODUCT

180XL

- The 180XL can be used to confirm fiber continuity on fibers up to 7km in length
- A 1.25mm adapter is available
- Has up to 80 hours of operation
- Ruggedized design - not made of plastic
- Class 2 for safe operation - 1mW output power
- 650nm propagates more efficiently than 635nm in single mode fiber

SPECIFICATIONS

Wavelength	650nm +/-10nm
Output Power	0dBm (1mW)
Maximum Distance	7km
Laser Classification	2
Bulkhead	2.5mm Universal
	1.25mm adapter available
Battery	AA (2)
Battery Life	80 hours
Weight	120 g (not including batteries)
Dimensions	180mm x 15mm (diameter)

CAT. NO.	UPC NO.	DESCRIPTION
N 180XL	84501	Visual Fault Finder

Fiber Cleaning Pens - 1.25mm & 2.5mm

NEW
PRODUCT

- Cleans 2.5mm & 1.25mm ferrules and bulkheads
- Compact, easy-to-use single click operation
- Rated for 800 cleaning cycles
- Anti-static design prevents secondary contamination

SPECIFICATIONS

Ferrule & Connector Sizes	1.25mm & 2.5mm
Weight	1 oz (20g)
Dimensions	7.1" x 0.7" x 0.7" (180mm x 18mm x 18mm)
Working Temperature	-10ºC to +50ºC
Storage Temperature	-30ºC to +70ºC

CAT. NO.	UPC NO.	DESCRIPTION
N FCP-1.25	03577	1.25mm Cleaning Pen
N FCP-2.5	03576	2.5mm Cleaning Pen

FCP-1.25mm   FCP-2.5mm

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Optical Light Sources

NEW PRODUCT

GDLS 350

- Durable and compact
- Provides a stable light source
- Interfaces to all industry standard connectors

SPECIFICATIONS	GDLS 350	GDLS 355 / GDLS 360
Wavelength	850nm & 1300nm LED	1310nm, 1550nm Laser/ 1490nm, 1625nm Laser
Output power	- 20dBm Typical	-4dBm Typical
Laser Classification	N/A	Class 1 (FDA 21 CFR1040.11)
Output stability	+/- 0.05dB, 1 hour, + /- 0.03dB long after 15 minute warm-up	
Spectral Width	40nm/120nm	5nm/5nm
Optical interface	Universal Connector Interface (FC, SC, ST & LC)	
Power on	Push button ON, Auto shutoff	
Tone Output	2kHz	
Dimensions	6.1 x 0.94 x 0.75in (15.5 x 2.38 x 1.90cm)	
Weight	3oz (85g)	
Operating Temperature	-10C to 50°C	
Storage Temperature	-30C to 60°C	

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-10 ° C to +50° C
Storage temperature	-30° C to +60° C
Weight	3 oz (85g)

CAT. NO.	UPC NO.	DESCRIPTION
Optical Light Sources		
N GDLS 350	00518	850/1300 Dual LED
N GDLS 355	00519	1310/1550 Dual Laser
N GDLS 360	03203	1490nm/1625nm Dual Laser
N 78-0160-70	21033	Single Instrument pouch
Connector Options		
R GAC 022B	00440	SC Adapter for source
R GAC 023B	00441	FC Adapter for source
R GAC 024B	00442	ST Adapter for source
R GAC 025B	00443	LC Adapter for source

Note: SC Adapter included with all laser and LED sources

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Optical Power Meter

GRP460

- Singlemode and multimode application
- Calibrated wave lengths of 850nm, 1310nm, 1490nm, and 1550nm
- Data transfer via USB for the GRP 460
- 2kHz Tone detect
- NIST traceable
- Long Battery Life

SPECIFICATIONS	GRP 450-02 GRP 460-02	GRP 450-04 GRP 460-04
Diode	Ge	Filtered InGaAs
Wavelength range	850nm to 1625nm	
Measurement range	+ 3 to – 60dBm	+23 to –45dBm
Resolution	0.01dB	
Absolute accuracy$^\Delta$	+/- 0.25dB	
Optical interface	Universal 2.5mm (Order 1.25mm or screw on adaptors separately)	
Tone identification	2kHz Incoming signal, Audible Alert	
Power on	Push button ON, Auto shutoff	
Storage	Store up to 1000 measurements per wavelength*	
Data transfer	Mini USB Port (1000 points/wavelength)*	
Dimensions	6.1 x 0.94 x 0.75 in (15.5 x 2.38 x 1.90cm)	
Weight	3.0oz (85g)	

	CAT. NO.	UPC NO.	DESCRIPTION
	Optical Power Meter		
N	GRP 450-02	00502	Germanium, 0.01dB, Zero ref set
N	GRP 450-04	00505	Filtered InGaAs, 0.01dB, Zero ref set
N	GRP 460-02	00509	Germanium, 0.01dB, Zero/Set Ref
N	GRP 460-04	00511	Filtered InGaAs, 0.01dB,Zero ref set
	78-0160-70	21033	Single Instrument Pouch
	Connector Options:		
R	GAC 020	00525	2.5mm Universal Adapter
R	GAC 021	00526	1.25mm Universal Adaptor
R	GAC 026	00531	SC Adaptor for OPM
R	GAC 027	00532	ST Adaptor for OPM
R	GAC 028	00533	FC Adaptor for OPM
R	GAC 029	00534	LC Adaptor for OPM
R	GAC 126	02046	SC/APC Adapter for OPM
R	GAC 540	02038	OptiTap Patchcord SC/APC for OPM
	Kit Options:		
N	GMFT-SM	03426	**Single Mode Kit** Kit includes: 1-GDLS 355 1310/1550 Dual Laser 1-GDLS 350 850/1300 Dual LED 1-GRP 460-02 Optical Power Meter 1-Soft Carry Case
N	GMFT-MM	03429	**Multimode Kit** Kit includes 1- GDLS 350 850/1300 Dual LED 1- GRP 460-02 Optical Power Meter 1- Soft Carry Case
N	GMFT-SM-MM	03431	**Singlemode/Multimode Kit** Kit includes 1- GDLS 355 1310/1550 Dual Laser 1- GDLS 350 850/1300 Dual LED 1- GRP 460-02 Optical Power Meter 1- Soft Carry Case

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Video Inspection Scope

NEW PRODUCT

GVIS 300-USB

- Unique external focus mechanism eliminates need for "focus wheel"
- 3/4 µm scratch resolution
- Thin (less than 1" dia.) ergonomic probe design
- Quick change adapter tips for all connector styles
- 3.5 inch LCD Display
- Advanced Li Ion Battery & smart technology AC charger system
- Rugged and compact size

SPECIFICATIONS

FOV (Field of View)	630µm x 440µm
Resolution	¾ micron
Light Source	Blue LED
Lighting Technique	Coaxial
Display screen size	3.5 in diagonal
Battery Life	8 to 10 hours continuous
Battery charge time	3 hours
Size	Probe – 180mm x 25mm x 19mm Monitor – 120mm x 89mm x 32mm
Weight - (monitor, probe & case)	0.54kg
Operating Temperature	0º to 50 ºC
Storage Temperature	-40ºC to 70 ºC

	CAT. NO.	UPC NO.	DESCRIPTION
N	GVIS 300 MP-USB	00540	GVIS 300 Monitor w/USB option, Probe, SC Bulkhead and 2.5mm Universal Adaptor tips, battery charger, basic cleaning kit and hard carry case

Video Inspection Scope

NEW PRODUCT

GVIS 400

- Automatic PASS/FAIL analysis equipped to meet IEC 61300-3-35 USB or Wi-Fi® streaming. Easily connects with laptops, smart phones, and tablets
- Greenlee GVIS application for analysis and reporting
- Unique external focus system and enhanced magnification produce clear high-definition images

SPECIFICATIONS

FOV (Field of View)	Live - 800µm x 600µm Enlarge - 485µm x 365µm Magnify and center - 485µm x 365µm
Resolution	<1 micron
Light Source	White LED
Lighting Technique	Coaxial
Size (Probe)	Probe – 180mm x 25mm x 19mm
Weight - (Probe(	102 g
Operating Temperature	0º to 50 ºC
Storage Temperature	-40ºC to 70 ºC

	CAT. NO.	UPC NO.	DESCRIPTION
N	GVIS 400-HDP	03178	GVIS 400 Probe Auto Pass/Fail with USB

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Video Inspection Scope

NEW PRODUCT

- Industry leading field of view
- Transmits live images and data via Wi-Fi from the GVIS 400-HDP via GPAD 250 USB
- PASS/FAIL via GPAD 250 conforming to IEC 61300-3-35
- Compatible with Greenlee inSpec and OpTest apps for Android
- Wireless transmission of dB loss readings from the GRP 460

GPAD-250

SPECIFICATIONS

Dimensions	4.5"L x 1.5"W x 2.75"H (114 mm x 38 mm x 70 mm)
Weight	0.5 lbs (23 kg)
Wi-Fi Connectivity	802.11 abgn Wi-Fi Access Point
Battery	11.1 volt lithium ion, 4 hour battery life
Battery Charger	AC Wall pack 12.6 volt lithium ion charger
Communication Distance	200 feet / 61 meters (GPAD 250 to wireless device)

	CAT. NO.	UPC NO.	DESCRIPTION
N	GPAD-250	03179	Wi-Fi Portable Access Device - For use with the GVIS-400 HDP

Video Inspection Scope Adapter Tips

GAC 040B   GAC 044B   GAC 048B

	CAT. NO.	UPC NO.	DESCRIPTION
R	GAC 034B	03180	E2000 Adapter GVIS
R	GAC 040B	03181	SC Adapter GVIS
R	GAC 041B	03182	SC/APC Adapter GVIS
R	GAC 042B	03183	FC Adapter GVIS
R	GAC 043B	03184	FC/APC Adapter GVIS
R	GAC 044B	03187	LC Adapter GVIS
R	GAC 045B	03188	LC/APC Adapter GVIS
R	GAC 046B	03189	ST Adapter GVIS
R	GAC 047B	03192	MTP/APC Adapter GVIS
R	GAC 048B	03190	1.25mm Universal Adapter GVIS
R	GAC 049B	03191	2.5mm Universal Adapter GVIS
R	GAC 050B	03193	MTP Straight Adapter GVIS
R	GAC 052B	01896	OptiTap SC/APC Adapter for GVIS
R	GAC 104B	03199	FC Adapter, 60-Degree Angled GVIS
R	GAC 107B	03202	SC Adapter, 60-Degree Angled GVIS
R	GAC 109B	03200	LC Adapter, 60-Degree Angle GVIS
R	GAC 115B	02050	2.5mm APC Adapter for GVIS
R	GAC 116B	02051	1.25mm APC Adapter for GVIS

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SensoLITE® Light Detector

510XL

Promotes workplace safety – can help prevent accidental eye exposure to hazardous laser radiation when used as directed

- Detects visible and invisible light wavelengths (630 nm to 1600 nm)
- Saves time and eliminates guesswork
- Simple, durable, and easy to use
- Works with bare and connectorized fibers
- Accepts all fiber and most connector types
- Wide sensitivity range: from -55 dBm to +25 dBm
- Presence of light indicated by an audible signal and an illuminated front panel LED
- Unique design permits testing in bright ambient light conditions
- Long battery life—up to one year of normal use
- Low battery indicator
- Replaceable light blocking curtain

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-15° C to +55° C
Storage temperature	-25° C to +70° C
Humidity	0 to 90% RH, non-condensing
Dimensions	14.2 x 4.3 x 3.3 cm (5.6 x 1.7 x 1.3 in.)
Weight	120 g (4.2 oz.) with batteries

SPECIFICATIONS

OPTICAL

Center Wavelength	630 nm to 1600 nm
Detector	PIN-type germanium
Optical Interface	Direct connection to bare or connectorized fibers; No specialized adapters required
Sensitivity	
630nm	< -40 dBm
850nm	< -55 dBm
1300nm	< -55 dBm
1550nm	< -55 dBm
Output Indicators	
Light > -40dBm	Amber LED/audible signal
Battery test	Green LED
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)

CAT. NO.	UPC NO.	DESCRIPTION
510XL	00024	Visual Fault Finder

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Fiber Optic Power Meter

560XL

- Easy to use - three buttons control all functions
- Loss measurements in (dB); power measurements in (dBm).
- 0.01 dB measurement resolution
- Multi-wavelength storage - store and recall reference power levels for faster, more efficient measurements
- Snap-On connector interface adapts to FC, SC and ST connectors.
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

	CAT. NO.	UPC NO.	DESCRIPTION
	560XL	84485	Fiber Optic Power Meter
A	T1062	60575	SC/PC UCI Adapter
A	T1020	60576	FC/PC SOC Adapter
A	T1030	60577	ST/PC SOC Adapter

SPECIFICATIONS

OPTICAL

Calibration Wavelengths	850 nm, 1300 nm, 1310 nm and 1550 nm
Power Range	+3 dBm to -60 dBm
Accuracy	± 0.25 dB
Linearity	
+3dBm to -3dBm	±0.5 dB
-3dBm to -50dBm	±0.5 dB
-50dBm to -60dBm	±0.5 dB
Resolution	0.01 dB
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)
Connector interface	FC, SC or ST SOC Adapter

SPECIFICATIONS

Environmental

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

Silicon Fiber Optic Power Meter

567XL

- Easy to use - three buttons control all functions
- Loss measurements in (dB); power measurements in (dBm)
- 0.01 dB measurement resolution
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

CAT. NO.	UPC NO.	DESCRIPTION
567XL	00025	XL fiberTOOLS® - Silicon Fiber Optic Power Meter

SPECIFICATIONS

OPTICAL

Detector Type	3 x 3.5 mm Silicon	
Calibration Wavelengths	635 nm, 780 nm, and 850 nm	
Power Range	+3 dBm to -60 dBm	
Accuracy	±0.25 dB	
Linearity at:	+3 dBm to -3 dBm	±0.5 db
	-3 dBm to -50 dBm	±0.05 db
	-50 dBm to -60 dBm	±0.5 db
Resolution	0.01 dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

SPECIFICATIONS

Environmental

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

GREENLEE®
COMMUNICATIONS
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High Intensity Fiber Optic Power Meter

568XL

SPECIFICATIONS

Environmental

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

- Easy to use - three buttons control all functions
- Multi-Wavelength Storage: Store and recall reference power levels for faster, more efficient measurements
- 0.01dB measurement resolution
- Loss measurements in (dB); power measurements in (dBm)
- Snap on connector interface adapts to FC, SC and ST connectors; Contact Greenlee for other available adapters
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

CAT. NO.	UPC NO.	DESCRIPTION
568XL	00026	XL fiberTOOLS® - High Intensity Optic Power Meter

SPECIFICATIONS

OPTICAL

Detector Type	2 mm indium-arsenide (InGaAs)
Calibration Wavelengths	980 nm, 1310 nm, and 1550 nm
Power Range	+25 to -30 dBm (1310 nm and 1550 nm); +25 to -27 dBm measurement range at 980 nm. To avoid thermal damage, limit exsposure high power (greater than +23 dBm) to less than 30 minutes.; +25 to -27 dBm (980 nm only)
Linearity at: **(1310nm and 1550nm)**	+25 dBm to +22 dBm ±1.0 dB +22 dBm to +18 dBm ±0.5 dB +18 dBm to +10 dBm ±0.2 dB +10 dBm to -30 dBm ±0.05 dB
Absolute Accuracy	±0.25dB at calibration conditions
Wavelength Dependence	975 to 985 nm 0.025 dB/nm 1270 to 1330 nm 0.0033 dB/nm 1500 to 1625 nm 0.0016 dB/nm
Polarization Dependence	<0.1 dB
Resolution	±0.01 dB
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)
Connector Interface	SOC

| N | = NEW PRODUCT | R | = REPLACEMENT PART | A | = ACCESSORY | B | = BARE TOOL |

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850/1300 nm LED Source

- 850/1300 nm wavelengths
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

570XL-FC

CAT. NO.	UPC NO.	DESCRIPTION
570XL-FC	84486	850/1300 nm LED source w/FC interface
570XL-SC	84487	850/1300 nm LED source w/SC interface
570XL-ST	84488	850/1300 nm LED source w/ST interface

SPECIFICATIONS

OPTICAL

Center Wavelengths	850 nm	1300 nm
Range (typical)	840 nm to 880 nm	1270 nm to 1345 nm
Max. spectral width	60 nm	150 nm
Stability (1 hour)	±0.05 dB	±0.05 dB
Typical power output		
100/140um	-20 dBm	-20 dBm
62.5/125um	-21 dBm	-20 dBm
50/125um	-121dBm	-21 dBm
Modulation frequency	270 kHz, 1 kHz and 2 kHz	270 kHz, 1 kHz and 2 kHz
Power Requirements	Two AA size 1.5V batteries	Two AA size 1.5V batteries
(approx. 40 hours continuous operation)		
Connector interface	FC, SC or ST	FC, SC or ST

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

650 nm LED Source for Large Core Plastic and Glass Fiber

- 650 nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- ST connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

573XL-ST

CAT. NO.	UPC NO.	DESCRIPTION
573XL-ST	00023	650NM LED source w/ST interface
573XL-UNIV	00598	650NM LED source w/UCI interface

SPECIFICATIONS

OPTICAL

Center Wavelength	650 nm
Range (Typical)	630 nm to 670 nm
Max. Spectral Width (FWHM)	40 nm
Stability (1 hour)	±0.05 dB
Power Output into	-15 dBm ±0.5 dB
MM 200/300 SI Fiber	
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±0.5 dB
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	ST

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

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850 nm LED Source with AS-100 Launch Condition using 100/140 Fiber

- 850 nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Universal connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

577XL AS100

	CAT. NO.	UPC NO.	DESCRIPTION
	577XL AS100	00029	850 nm LED source w/AS100 Launch
A	APC-108	60572	FC/PC UCI Adapter
A	ATS-108	60573	ST/PC UCI Adapter
A	ASC-108	60574	SC/PC UCI Adapter

SPECIFICATIONS

OPTICAL

Center Wavelength	850 nm
Range (Typical)	840 nm to 880 nm
Max. Spectral Width (FWHM)	<55 nm
Stability (1 hour)	±0.05 dB
Launch Profile	AS100
Power Output into MM 100/140 GI fiber	-13 dBm ±0.5 dB
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±5%
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal connector interface, physical contact (UCI-PC)

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

1300 nm LED Source with M90 Launch Condition using 62.5/1.25 Fiber

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

SPECIFICATIONS

OPTICAL

Center Wavelength	1300 nm
Range (Typical)	150 nm
Max. Spectral Width (FWHM)	<55 nm
Stability (1 hour)	±0.05 dB
Launch Profile	M90
Power Output into MM 62.5/125 GI fiber	-20 dBm
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±5%
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal connector interface, physical contact (UCI-PC)

- 850 nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Universal connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

	CAT. NO.	UPC NO.	DESCRIPTION
	578XL-M90	00753	LED Source 1300 NM, 62.5/1.25 Fiber
A	APC-108	60572	FC/PC UCI Adapter
A	ATS-108	60573	ST/PC UCI Adapter
A	ASC-108	60574	SC/PC UCI Adapter

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1310/1550 nm Laser Source

580XL-FC

- 1310/1550nm wavelengths
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connect interface FC, SC or ST
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

CAT. NO.	UPC NO.	DESCRIPTION
580XL-FC	84489	1310/1550nm Laser source w/FC interface
580XL-SC	84490	1310/1550nm Laser source w/SC interface
580XL-ST	84491	1310/1550nm Laser source w/ST interface

SPECIFICATIONS

ENVIRONMENTAL

Operating temperature	-15° C to +55° C
Storage temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241 g (8.5 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4
CDRH Laser Class	Class 1

SPECIFICATIONS

OPTICAL

Center Wavelengths	1310 nm	1550 nm
Range (typical)	1280 nm to 1340 nm	1520 nm to 1580 nm
Max. spectral width	<5 nm	<5 nm
Stability (1 hour)	±0.05 dB	±0.05 dB
Typical power output (9/125)		
Minimum	-8 dBm	-8 dBm
Typical	-7 dBm	-7 dBm
Modulation frequency	270 kHz, 1 kHz and 2 kHz	270 kHz, 1 kHz and 2 kHz
Power Requirements	Two AA size 1.5V batteries	Two AA size 1.5V batteries
(approx. 40 hours continuous operation)		
Connector interface	FC, SC or ST	FC, SC or ST

Multimode Fiber Optic Test Set

5670-FL

- Insertion loss test set for multimode fiber
- 850/1300 nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy to use portable package
- Economically priced

SPECIFICATIONS

5670-FC INCLUDES:
>   560XL Optical Power Meter
>   570XL-FC 850/1300 nm LED Source w/FC Connector
>   T1020 FC/PC SOC Adapter
>   914B Carrying Case

5670-SC INCLUDES:
>   560XL Optical Power Meter
>   570XL-SC 850/1300 nm LED Source w/SC Connector
>   SC/PC SOC Adapter
>   914B Carrying Case

5670-ST INCLUDES:
>   560XL Optical Power Meter
>   570XL-ST 850/1300 nm LED Source w/ST Connector
>   T1030 ST/PC SOC Adapter
>   914B Carrying Case

CAT. NO.	UPC NO.	DESCRIPTION
5670-FC	84492	Multimode Fiber Optic Test Set w/FC interface
5670-SC	84493	Multimode Fiber Optic Test Set w/SC interface
5670-ST	84494	Multimode Fiber Optic Test Set w/ST interface

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Singlemode Fiber Optic Test Set

5680-FC

- Insertion loss test set for singlemode fiber
- 1310/1550 nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy to use portable package
- Economically priced

KIT SPECIFICATIONS

5680-FC INCLUDES:
> 560XL Optical Power Meter
> 580XL-FC 1310/1550 nm Laser Source w/FC Connector
> T1020 FC/PC SOC Adapter
> 914B Carrying Case

5680-SC INCLUDES:
> 560XL Optical Power Meter
> 580XL-SC 1310/1550 nm Laser Source w/SC Connector
> T1062 SC/PC SOC Adapter
> 914B Carrying Case

5680-ST INCLUDES:
> 560XL Optical Power Meter
> 580XL-ST 1310/1550 nm Laser Source w/ST Connector
> T1030 ST/PC SOC Adapter
> 914B Carrying Case

CAT. NO.	UPC NO.	DESCRIPTION
5680-FC	84495	Singlemode Fiber Optic Test Set w/FC interface
5680-SC	84496	Singlemode Fiber Optic Test Set w/SC interface
5680-ST	84497	Singlemode Fiber Optic Test Set w/ST interface

Multimode and Singlemode Fiber Optic Test Set

5890-FC

- Insertion loss test set for multimode and singlemode fiber
- 850/1300 nm Loss measurements
- 1310/1550 nm Loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy to use portable package
- Economically priced

KIT SPECIFICATIONS

5890-FC INCLUDES:
> 560XL Optical Power Meter
> 570XL-FC 850/1300 nm LED Source w/FC Connector
> 580XL-FC 1310/1550 nm Laser Source w/FC Connector
> T1020 FC/PC SOC Adapter
> 915B Carrying Case

5890-SC INCLUDES:
> 560XL Optical Power Meter
> 570XL-SC 850/1300 nm LED Source w/SC Connector
> 580XL-SC 1310/1550 nm Laser Source w/SC Connector
> T1062 SC/PC SOC Adapter
> 915B Carrying Case

5890-ST INCLUDES:
> 560XL Optical Power Meter
> 570XL-ST 850/1300 nm LED Source w/ST Connector
> 580XL-ST 1310/1550 nm Laser Source w/ST Connector
> T1030 ST/PC SOC Adapter
> 915B Carrying Case

CAT. NO.	UPC NO.	DESCRIPTION
5890-FC	84498	Multimode and Singlemode Fiber Optic Test Set w/FC interface
5890-SC	84499	Multimode and Singlemode Fiber Optic Test Set w/SC interface
5890-ST	84500	Multimode and Singlemode Fiber Optic Test Set w/ST interface

525N-30 Smart Optical Loss Test Set

525N-30-FC

- Automated dual cable testing
- Optical return loss measurements
- Dual wavelength insertion loss measurements
- Multi-mode and Single-mode models feature user settable PASS/FAIL thresholds
- Communications between units via messaging
- Wide dynamic range optical power meter
- Test record storage and data management software
- Rugged outside plant instrument package
- Universal connector interface

CAT. NO.	UPC NO.	DESCRIPTION
525N-30-FC	00891	850/1300nm Smart Optical Loss Test Set - FC interface
525N-30-SC	00892	850/1300nm Smart Optical Loss Test Set - SC interface
525N-30-ST	00893	850/1300nm Smart Optical Loss Test Set - ST interface

SPECIFICATIONS		525N-30-XX
	Instrument Type	Singlemode Smart Loss Test Set
	Interface Connector	PC Connector Interface AUTOTEST performs
	AUTOTEST measurements	Insertion Loss Test and Manual Return Loss

POWER METER

Detector Type		InGaAs
Display Range		+10 dBm to -70 dBm
Calibrated Wavelengths		850, 980, 1300, 1310, 1550, 1480, 1625 nm
Absolute Accuracy		<±0.25 dB
Resolution		0.01 dB
Measurement Units		dBm, dB

SOURCE SPECIFICATIONS

Center Wavelength		850 nm ±30 nm	1300 nm ±30 nm
Spectral Width		<170	<170
Output Power		>-21 dBm	>-21 dBm
Output Stability		<±0.10 dB/8 hrs	<±0.10 dB/8 hrs

AUTOTEST INSERTION LOSS SPECIFICATIONS

Test Port Measurement Range		25 dB
Calibrated Wavelengths		850, 1300 nm

GENERAL DESCRIPTIONS

Display Type		Graphics Liquid Crystal with Backlight
Fiber Type		Singlemode 9/125 um
Standard Adapter Type		FC, SC, ST other adapter options available
Laser Classification		Class 1 CFR 1040
Operating Temperature		0° C to +50° C
Storage Temperature		-20° C to +60° C
Relative Humidity		0 to 95% RH non-condensing
Size		19.3 x 10.9 x 5.8 cm (7.6 x 4.3 x 2.3 in)
Weight		1.0 kg (2.2 lbs)
Power		Internal rechargeable NiMH
Battery Life		>8 hours

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GREENLEE®
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525N-60 Smart Optical Loss Test Set

- Automated bi-directional testing
- Optical return loss measurements
- Dual wavelength insertion loss measurements
- Multi-mode and single-mode models feature user settable PASS/FAIL thresholds
- Communications between units via messaging
- Wide dynamic range optical power meter
- Test record storage and data management software
- Rugged outside plant instrument package
- Universal connector interface

525N-60-ST

CAT. NO.	UPC NO.	DESCRIPTION
525N-60-ST	00896	1310/1550 nm Smart Optical Loss Test Set - PC Connectors
525N-60-FC	00894	1310/1550 nm Smart Optical Loss Test Set - PC Connectors
525N-60-SC	00895	1310/1550 nm Smart Optical Loss Test Set - PC Connectors

SPECIFICATIONS	525N-60-XX
Instrument Type	Singlemode Smart Loss Test Set
Interface Connector	PC Connector Interface AUTOTEST performs
AUTOTEST measurements	Insertion Loss Test and Manual Return Loss

POWER METER SPECIFICATIONS

Detector Type	InGaAs
Display Range	+10 dBm to -70 dBm
Calibrated Wavelengths	850, 980, 1300, 1310, 1550, 1480, 1625
Absolute Accuracy	±0.25 dB
Resolution	0.01 dB
Measurement Units	dBm, dB, W
Adapter Type	UCI-UPC flat polish adapter 9/125SM

SOURCE SPECIFICATIONS

Center Wavelength	1310 nm ±30 nm	1550 nm ±30 nm
Spectral Width	<5	<5
Output Power	>-10 dBm	>-10 dBm
Output Stability	±0.15 dB	±0.15 dB
	8 hours	8 hours

AUTOTEST INSERTION LOSS SPECIFICATIONS

Test Port Measurement Range	40 dB
Calibrated Wavelengths	1310, 1550 nm

RETURN LOSS SPECIFICATIONS

Measurement Range	10 to 45 dB
Accuracy	.5 dB

GENERAL DESCRIPTIONS

Display Type	Graphics Liquid Crystal with Backlight
Fiber Type	Singlemode 9/125 um
Standard Adapter Type	FC, SC, ST other adapter options available
Laser Classification	Class 1 CFR 1040
Operating Temperature	0° C to +50° C
Storage Temperature	-20° C to +60° C
Relative Humidity	0 to 95% RH non-condensing
Size	19.3 x 10.9 x 5.8 cm (7.6 x 4.3 x 2.3 in)
Weight	1.0 kg (2.2 lbs)
Power	Internal rechargeable NiMH
Battery Life	>8 hours

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Connector Cleaning Systems

948

- Special lint-free fabric-on-a-reel quickly cleans ferrule endfaces of dust, oil and other contaminants
- Cleaning system is completely self-contained
- No need for alcohol
- A single cleaning reel can be used for over 400 ferrule cleanings
- ReelCleaner™ can be used on all connector types including MTP and MT-RJ

CAT. NO.	UPC NO.	DESCRIPTION
948	60692	ReelCleaner™ Connector Cleaning System
948/2	10792	Reel Set, 2/Package
945/ESD/1	24053	Reel Set, 1/Package

Adapter Cleaning Wands
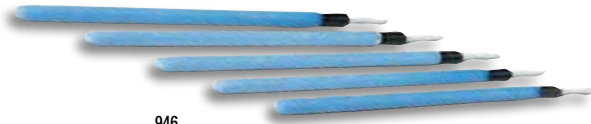
946

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

CAT. NO.	UPC NO.	DESCRIPTION
946	60571	2.5 mm Cleaning Wands, 10/Package
946/K	60689	2.5 mm Cleaning Wands, 200/Box
947	60690	1.25 mm Cleaning Wands, 10/Package
947/K	60691	1.25 mm Cleaning Wands, 200/Box

Optical Fiber Monitors

OFM1020

OFM130

OFM1020
- mm Resolution
- Zero Deadzone
- 90dB Return loss dynamic range
- 850/1300 nm operation
- Measure optical components, cables and sensors.
- Monitor bend loss and fiber stress
- Universal optical interface
- Ruggedized for field deployment
- AC/DC operation
- Custom configurations available (fiber, outputs, wavelengths)

OFM130
- mm Resolution
- Zero Deadzone
- 85dB Return loss dynamic range
- 1310/1490/1550/1625 nm operation
- Measure optical components, cables and sensors
- Analyze optical amplifiers
- Monitor bend loss and fiber stress
- Custom configurations available (fiber, outputs, wavelengths)

CAT. NO.	UPC NO.	DESCRIPTION

Please consult with a customer service representative for ordering details. (800) 642-2155
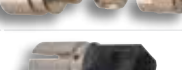
SPECIFICATIONS

Fiber Type	OFM1020	OFM130
Distance		
Range	0-20 km (65,000 ft.)	
Accuracy	0.02% + 2.5cm (1")	
Single Point Resolution	5 mm (0.2")	
Two Point Resolution	10 cm (4")	
Deadzone		
Event	12 cm typical (5")	
Attenuation	38 cm typical (15")	
Return Loss		
Dynamic Range	90dB	
Accuracy	±1.0dB	
Insertion loss, fresnel		
Dynamic Range	40dB	
Accuracy	±0.3dB	
Insertion loss, rayleigh		
Dynamic Range	20dB	
Accuracy	±0.02 dB	
Wavelength		
Accuracy	40 nm	
Spectral Width	20 nm	
Mechanical		
Size	36 cm x 48 cm x 20 cm (14.2"x18.9"x7.9")	35 cm x 39 cm x 20 cm (13.8"x15.3"x7.9")
Weight	11 kg (24 lb.)	9.5 kg (21 lb.)
Power		
AC	110/220V, 60/400Hz	
DC	24V	n/a

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Fiber Optic Instrument Adapters – SOC and UCI

- Our SOC and UCI adapters provide direct connectivity for Tempo fiberTOOLS® to a wide range of industry-standard fiber optic connectors
- Adapter design ensures maximum accuracy and repeatability when performing critical measurements on fiber optic systems
- Easy to clean and use
- 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

CONNECTOR TYPE	SOC ADAPTER			UCI ADAPTER		
DESCRIPTION		CAT. NO.	UPC NO.		CAT. NO.	UPC NO.
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
E-2000		T10E2	60599		AE2-10	60698
FC		T1020	60576		APC-108	60572
HMS-10/HP		T1040	60590		AHP-10	60699
LC		T10LC	60600	Use Hybrid Cable * or FoPro®–x		
MIL-T-29504/4 & /5 Termini		T1038	60589	Use Hybrid Cable * or FoPro®–x		
MT-RJ		T13A2	60605	Use Hybrid Cable Only *		
SC		T1062	60575		ASC-108	60574
SMA 905/906		T1087	60596		ASM-90	60702
ST		T1030	60577		ATS-108	60573
TOSLINK – Simplex		T10TB	60602	Use Hybrid Cable Only *		
Versatile Link – V/Z PIN		T10ZP	60604	Use Hybrid Cable Only*		

× 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)

90SOC (60687)
SOC adapter tool for easy installation and removal of SOC adapters from instrument interfaces. (Product shown may vary)

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FIBER OPTIC HAND TOOLS

ProGrip 5-in-1 Fiber Optic Stripper

PA1171

- Precision ground stripping cavities for:
  – 2.0 - 2.4 mm outer jacket
  – 2.0 - 3.0 mm loose tube
  – 2.8 - 3.0 mm outer jacket
  – 900 µm buffer insulation
  – 900/125 µm and 250/125 µm buffer/acrylate
- Factory calibrated

CAT. NO.	DESCRIPTION
PA1171	ProGrip 5-in-1 Fiber Optic Stripper

ProGrip 3-in-1 Fiber Optic Stripper

PA1177

- Precision ground stripping cavities for:
  – 2.0 mm outer jacket
  – 900 µm buffer insulation
  – 250 µm buffer/acrylate
- Factory calibrated

CAT. NO.	DESCRIPTION
PA1177	ProGrip 3-in-1 Fiber Optic Stripper

Economy Kevlar® Cutter

PA1511

- Cut protective Kevlar strands in fiber optic cable
- Hard-chromed serrated edges to easily cut through Kevlar
- Comfortable handles with large finger openings
- 7.75" (197 mm) long

CAT. NO.	DESCRIPTION	WEIGHT
PA1511	Economy Kevlar Cutter	2 oz

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

Economy Fiber Optic Stripper

PA1162

- Pre-calibrated and factory set to ensure precision
- Bright orange rubber dipped handles
- Lock closure for safety and transport
- Tool is for stripping 2.0-3.0 mm Fiber Optic cable, micron-cladded core
- 5" (127 mm) long

SPECIFICATIONS

Weight	3 oz. (86 g)
Length	5" (127 mm)

CAT. NO.	DESCRIPTION	WEIGHT
PA1162	Economy Fiber Optic Stripper	3 oz

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Pocket Cable Stripper

1903

- Specifically designed for stripping power and telecommunications cables from 3/4" to 1-1/2" in diameter (19 mm to 40 mm)
- Strips solid conductor, stranded conductor and multiple conductor cables
- Easy blade depth adjustment
- Blade rotates for circular, longitudinal and spiral cuts.

CAT. NO.	UPC NO.	DESCRIPTION
1903	12679	Cable Stripping Tool
R 13544	13544	Replacement Blade (2 per package)
R 13545	13545	Replacement Small Hook
R 13546	13546	Replacement Large Hook

Fiber Optic Scribe

- Pen-type scribe with screw-in non-reversible carbide tip
- Wedge shaped tip
- Pocket-clip
- Stainless steel barrel
- 5.25" (197 mm)

PA1922-1

CAT. NO.	DESCRIPTION	WEIGHT
PA1922-1	Fiber Optic Scribe	2 oz

Fiber Optic Polishing Pucks

- Manufactured from aluminum with tungsten coating
- Cleaner than conventional plastic pucks because less debris left behind
- Double the lifetime of conventional plastic pucks
- Length: 7.75" (197 mm)

SC/FC

PA1920-1

CAT. NO.	DESCRIPTION	WEIGHT
PA1920-1	SC, ST, FC Polishing Puck	2 oz
PA1926-1	LC Polishing Puck	2 oz

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FIBER OPTIC KITS
Ultimate Fiber Tool Kit

PA4924

This Ultimate Kit contains all the slitters, strippers, and Kevlar® cutters you will need to start your fiber optic terminations. Also included is the premium 1600 Series Crimper with three interchangeable dies. The Ultimate Tool Bag also has plenty of room for you to add your consumables

CAT. NO.	DESCRIPTION	WEIGHT
PA4924	Ultimate Fiber Tool Kit	5.65 lbs

ULTIMATE FIBER TOOL KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1511	Kevlar® Cutter
R	PA1171	ProGrip 5-in-1 Fiber Optic Stripper
R	PA1162	Economy Fiber Optic Stripper
R	PA1161	Adjustable Jacket Stripper
R	PA1820	AM 25 Slitter
R	PA1821	AM 35 Slitter
R	PA1258	LC CST- Mini Stripper
R	PA1600	1600 Series Crimp Frame
R	PA2044	STII Type Die Set
R	PA2664	SMA/SMB/FC/BICONIC Die Set
R	PA1922-1	Fiber Optic Scribe
R	PA1920-1	SC/ST/FC Polishing Puck
R	PA1926-1	LC Polishing Puck
	N/A	Plano® Tackle Box
R	PA4923	Ultimate Tool Bag

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

FiberReady Tool Kit

PA906001

This kit contains an assortment of cable sliters, strippers and Kevlar® cutters to prep fiber optic cable along with our 1600 Series premium crimper with interchangeable dies

CAT. NO.	DESCRIPTION	WEIGHT
PA906001	FiberReady Tool Kit	3.1 lbs

FIBERREADY TOOL KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1511	Kevlar® Cutter
R	PA1171	ProGrip 5-in-1 Fiber Optic Stripper
R	PA1822	Universal Cable Stripper
R	PA1600	1600 Series Crimp Frame
R	PA2044	STII Type Die Set
R	PA2664	SMA/SMB/FC/BICONIC Die Set
	N/A	Zippered Portfolio Case with Handles

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

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COMMUNICATIONS KITS
GripPack Quick-Release Tool Holster

PA4942

- Easy-on, easy off with new quick-release belt clip
- Belt clip swivels so the holster moves with you and the tools stay out of your way
- Form fitted PVC material ensures that tools don't fall out - even if you drop your kit or they are upside down
- Molded specifically to hold the following Greenlee Communications Tools: Data SureStrip® UTP/STP & flat satin phone cutter/stripper, Datacomm scissors with serrated blades & ergonomic handles, Punchdown tool - either the ergonomic SurePunch Pro or the original SurePunch PDT®, Mini-MagLite® or SurePunch Pro detachable LED, and a Sharpie® marker

CAT. NO.	DESCRIPTION
PA4940	GripPack Quick-Release Tool Holster
PA4941	GripPack SurePunch *Pro* Technician's Kit
PA4942	GripPack SurePunch *Pro* Installer's Kit
PA4943	GripPack SurePunch Technician's Kit
PA4946	GripPack UTP Essentials
PA4940-31	Replacement Belt Clip

Grip Pack Kits

DESCRIPTION	MODEL	PA4941	PA4942	PA4943	PA4946
GripPack Tool Holster	PA4940	✓	✓	✓	
Data SureStrip® UTP/STP & flat satin cutter/stripper	PA1116	✓	✓	✓	✓
Reversible 110/66 blade	PA4571	✓	✓	✓	✓
SurePunch Pro PDT punchdown tool handle	PA3589	✓	✓		
SurePunch PDT® punchdown tool handle	PA3570			✓	✓
SurePunch Pro detachable LED light & batteries	PA4599	✓	✓		
MagLite® with 2 AA batteries	N/A	✓		✓	
Black Sharpie® pen	N/A	✓		✓	

Pro COAX Tool Kit

46601

Designed for the professional CATV cable installer. Offers the convenience in having six essential tools needed for coaxial repair and installation with a unique Grip Pack Pouch

CAT. NO.	UPS NO.	DESCRIPTION
46601	01292	Pro COAX Tool Kit

46601 PRO COAX TOOL KIT INCLUDES

R	0251-08D	8" Diagonal Cutting Pliers, Dipped Grip
R	45591	RG59/6/6Q, RG7/11 Coaxial Cable Stripper
R	PA70020	RG59/6/6Q, RG7/11 Coaxial Cable Crimper
R	0153-42C	6-in-1 Multi-Tool (Screwdriver/Nut Driver Tool)
R	0354-14	Combo Ratcheting Closed and Open Ended 7/16" Wrench
R	FL2AAAP	LED Water Resistant Penlight
R	PA5000	Custom Grip Pack Pouch with Belt Clip

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N = NEW PRODUCT   **R** = REPLACEMENT PART   **A** = ACCESSORY   **B** = BARE TOOL

Ultimate Technician Kit

PA4932

CAT. NO.	DESCRIPTION	WEIGHT
PA4932	Ultimate Technician Kit	7.2 lbs

PA4932 ULTIMATE TECHNICIAN KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1179	KT8 round cable cutter
R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1257	LC-CST CATV "F" coax stripper
R	PA1923	Untwist tool
R	PA1927	CATV "F" flaring & attachment tool - RG6/RG6 QS
R	PA1559	SealTite® Pro compression crimper
R	PA3589	SurePunch Pro punchdown tool
R	PA4599	SurePunch Pro detachable LED light
R	PA4572	110 blade
R	PA4591	Double 110 blade
R	PA4573	66 blade
R	PA4574	BIX blade
R	PA4575	Krone LSA blade
R	PA1543	LAN ProNavigator® tester & remote
R	PA1573	Telephone Test Set & LAN Cable-Check™
R	PA1902	RJ45 adapter
R	PA1900	Can wrench
	N/A	(10) RJ22 handset plugs
R	PA9520	(10) RJ11/12 plugs, stranded, flat cable
R	PA9546	(10) RJ45 plugs, Cat5e, solid, round cable
R	PA9644	(10) CATV "F" RG6/RG6 QS connectors
R	PA901074	(2) BNC-to-CATV "F" adapters
R	PA4923	Ultimate Tool Bag
	N/A	Plano® plastic tackle box

Ultimate Premise Service Kit

PA4933

This kit is designed for today's on-the-go LAN professional. It provides all the tools and testers you need to maintain your data, voice and video networks all in our Ultimate Tool Bag that's always ready

CAT. NO.	DESCRIPTION	WEIGHT
PA4933	Ultimate Premise Service Kit	6.1 lbs

PA4932 ULTIMATE PREMISE SERVICE KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1179	KT8 round cable cutter
R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1257	LC-CST CATV "F" coax stripper
R	PA8000	CrimpALL® crimp frame with EZI-CHANGE™ thumb screws
R	PA3589	SurePunch Pro punchdown tool
R	PA4572	110 blade
R	PA4573	66 blade
R	PA1543	LAN ProNavigator® tester & remote
R	PA1573	Telephone Test Set & LAN Cable-Check™
R	PA1902	RJ45 adapter
R	PA901074	(2) BNC-to-CATV "F" adapters
R	PA4923	Ultimate Tool Bag
	N/A	Plano® plastic tackle box
Die Sets:		
R	PA2062	Die Sets: RJ11/12 WE/SS-style
R	PA2687	Die Sets: RJ45 WE/SS-style & RG6/RG6 QS CATV "F"

Ultimate Coax Compression Tool Kit

This kit is for installing home theaters, HDTV, satellite and digital cable TV systems. It contains everything needed for new home construction or retrofitting sophisticated A/V solutions

PA4939

CAT. NO.	DESCRIPTION	WEIGHT
PA4939	Ultimate Coax Compression Tool Kit	8.25 lbs

PA4939 ULTIMATE COAX COMPRESSION TOOL PRO KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1821	AM 35 Slitter
R	PA1179	KT8 Cutter
R	PA1119	UTP/Coax Cutter/Stripper
R	PA1280	CST Pro Coax tool
R	PA2280	CST Pro GRN Cassette
R	PA2281	CST Pro OG – Kings & Amphenol BNC
R	PA2282	CST Pro BK – ADC, Amphenol HDTV BNC
R	PA2283	CST Pro BL – CATV "F"
R	PA2284	CST Pro Rollers
R	PA1927	CATV "F" Flaring & Insertion Tool
R	PA1557	SealTite® Pro Compression Crimper
R	PA1907	BNC Extraction Tool
R	PA1908	CATV "F" Extraction Tool
R	PA1594	LAN & A/V Cable-Check™ Tester
	N/A	Plano® Tackle Box
R	PA4923	Ultimate Tool Bag
R	PA9645	(50) SealTite™ CATV "F" – RG59
R	PA9720	(10) SealTite™ RCA – RGX
R	PA9730	(10) SealTite™ BNC – RGX
R	PA906002	(30) Connector & Adapter Assortment Pack

Ultimate DataReady® Pro Kit

If you're an installer or technician needing a data cable tool kit solution, this is it. It includes all the tools you need for Cat5, Cat5e and Cat6 installation or maintenance in our rugged Ultimate Tool Bag

PA4934

CAT. NO.	DESCRIPTION	WEIGHT
PA4934	Ultimate DataReady® Pro Kit	5.15 lbs

PA4932 ULTIMATE DATAREADY® PRO KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1923	Untwist tool
R	PA8000	CrimpALL® crimp frame with EZI-CHANGE™ thumb screws
R	PA3589	SurePunch Pro punchdown tool
R	PA4599	SurePunch Pro detachable LED light
R	PA4571	110/ 66 blade
R	PA4591	Double 110 blade
R	PA1543	LAN ProNavigator® tester & remote
R	PA4923	Ultimate Tool Bag
	N/A	Plano® plastic tackle box
	Die Sets:	
R	PA2061	RJ45 WE/SS-style
R	PA2062	RJ11/12 WE/SS-style
R	PA2063	RJ22 handset
R	PA2064	RJ45 AMP-style
R	PA2067	RJ11 DEC-MMJ

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Ultimate Data/Voice Pro Kit

This complete kit is for data and voice installation and maintenance stored in the new versatile Ultimate Tool Bag

CAT. NO.	DESCRIPTION	WEIGHT
PA4935	Ultimate Data/Voice Pro Kit	4.5 lbs

PA4935

PA4935 ULTIMATE DATA/VOICE PRO KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1923	Untwist tool
R	PA1561	All-in-One Phone/Data tool
R	PA3589	SurePunch Pro punchdown tool
R	PA4572	110 blade
R	PA4573	66 blade
R	PA4591	Double 110 blade
R	PA1573	Telephone Test Set & LAN Cable-Check™
R	PA1900	Can wrench
R	PA4923	Ultimate Tool Bag
	N/A	Plano® plastic tackle box

Ultimate Tool Bag

- Main compartment features removable inner tote and three additional pockets
- Removable inner tote with eight adjustable storage slots keeps smaller tools handy
- Detachable shoulder strap with three anchor points to carry bag horizontally or vertically
- Deep Velcro pockets holds large tools or test equipment
- Plano® divided tackle box neatly stores dies, blades & connectors and fits into all outer pockets
- Sturdy bottom prevents bag from flopping over when sitting upright

PA4923

CAT. NO.	DESCRIPTION	WEIGHT
PA4923	Ultimate Tool Bag with Plano® tackle box	2.2 lbs

Tools and bits not included

| N | = NEW PRODUCT | R | = REPLACEMENT PART | A | = ACCESSORY | B | = BARE TOOL |

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SealTite® Pro A/V Kit

The SealTite® Pro A/V kit is all you need to make custom length digital and analog audio and component video cables using compression RCA, BNC and cable TV "F" connectors.

PA4915

CAT. NO.	DESCRIPTION	WEIGHT
PA4915	SealTite® Pro A/V Kit	46 oz

SEALTITE® PRO A/V KIT INCLUDES

PA1119	Combination UTP/Coax Data SureStrip®
PA1559	SealTite Pro Compression Crimper
N/A	2 sets of color bands for RCA & BNC Connectors

6 BONUS RG6/RG6 QS Compression Connectors

PA9714	(2) RCA
PA9715	(2) BNC
PA9643	(2) Cable TV "F"

SealTite® Pro Cable TV "F" Kit

PA4910

Tackle all of your compression crimping jobs with the complete SealTite® Pro Kit. Includes all the tools you need to prepare the cable and terminate any compression connector using RG59, RG6 or RG6 Quad shield cables

CAT. NO.	DESCRIPTION	WEIGHT
PA4910	SealTite® Pro Kit	46 oz

SEALTITE® PRO KIT INCLUDES

R	PA1179	KT8 round cable cutter
R	PA1257	LC CST CATV "F" coax stripper
R	PA1917	RG6/RG6 Quad shield flaring tool
R	PA1559	SealTite® Pro compression crimper
	N/A	RG6/RG6 Quad SealTite® connectors (10)

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CoaxReady™ Compression Tool Kit

PA906003

Adding to our CoaxReady™ solutions, this kit has everything you will need to terminate any manufacturers' cable TV "F", RCA or BNC compression connectors using RG6, RG6 Quad or RG59 cable sizes
- 12 piece kit
- Includes zippered Cordura® portfolio case

CAT. NO.	DESCRIPTION	WEIGHT
PA906003	CoaxReady™ Compression Tool Kit	3.5 lbs

COAXREADY™ COMPRESSION TOOL KIT INCLUDES

R	PA1821	AM 35 Slitter
R	PA1179	KT8 Cutter
R	PA1119	Data & A/V UTP & Coax Cutter/Stripper
R	PA1280	CST Pro Coax tool
R	PA2280	CST Pro GRN 3-Level Strip Blade Cartridge
R	PA2283	CST Pro OG 3-Level Strip Blade Cartridge
R	PA2282	CST Pro BK 3-Level Strip Blade Cartridge
R	PA2284	CST Pro Rollers
R	PA1927	CATV "F" Flaring & Insertion Tool
	N/A	Zippered Cordura® Portfolio Case

CoaxReady™ Deluxe Kit

PA901081

Perfect for LAN/Ethernet or video & CATV installation. For a wide variety of coaxial connectors including mini-coax and HDTV applications, CoaxReady™ Deluxe combines our most popular tools for a complete coax solution in a handy zipper case
- Kit also includes terminators and adapters

CAT. NO.	DESCRIPTION	WEIGHT
PA901081	CoaxReady™ Deluxe Kit	3 lbs

COAXREADY™ DELUXE KIT INCLUDES

R	PA1179	KT8 round cable cutter
R	PA1255	LC CST-58/59 coax stripper
R	PA1302	1300 crimp tool frame with EZI-CHANGE™ thumb screws
DIE SETS:		
R	PA2034	BNC/TNC - RG58/59/62AU
R	PA2649	BNC/TNC - CATV "F" RG59/6/Belden 8281/1694A and 1505A
R	PA2653	SMA/SMB/Mini 59 BNC & TNC/Mini-UHF

CoaxReady™ Kit

PA901054

With this kit a technician is set to tackle most coaxial cabling challenges Perfect for the LAN/Ethernet or video installation installer. For a wide variety of coaxial connectors including mini-coax applications, CoaxReady™ combines our most popular tools with the new LC CST coax stripper in a handy zippered case

CAT. NO.	DESCRIPTION	WEIGHT
PA901054	CoaxReady™ Kit	2.5 lbs

COAXREADY™ KIT INCLUDES

R	PA1179	KT8 round cable cutter
R	PA1255	LC CST-58/59 coax stripper
R	PA1302	1300 crimp tool frame with EZI-CHANGE™ thumb screws
DIE SETS:		
R	PA2034	BNC/TNC - RG58/59/62AU
R	PA2075	BNC/TNC - RG58/59/62AU RG6 Teflon/Plenum
R	PA2653	SMA/SMB/Mini 59 BNC & TNC/Mini-UHF

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Telco Technician Tool Kit

PA4938

CAT. NO.	DESCRIPTION	WEIGHT
PA4938	Telco Technician Kit	7.6 lbs

BROADCASTREADY® PRO KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1116	Data SureStrip® UTP/STP Cutter/Stripper
R	PA1933	Datacomm Scissors
R	PA3570	SurePunch Pro Punchdown Tool
R	PA4571	110/66 blade
R	PA4599	SurePunch Pro Detachable LED Light
	N/A	Mini-MagLite®
	N/A	Sharpie® Black Marker
R	PA4940	GripPack Quick Release PDT Holster
R	PA1561	All-in-One Phone/Data Crimp Tool
R	PA9655	(50) RJ45 Cat5e Modular Plugs
R	PA1902	RJ45 Adapter
R	PA1903	RJ11 Adapter
R	PA1573	Tone Probe Plus Cable-Check™
R	TM500	Butt Set
	N/A	Plano® Tackle Box
R	PA4923	Ultimate Tool Bag

BroadcastReady® Kit

PA901083

The BroadcastReady™ Kit includes professional tools for cutting, stripping, crimping and testing coaxial cable connections for HDTV, video and RF communications. Protected by a padded, zipper case. Also includes a screwdriver to change out die sets

CAT. NO.	DESCRIPTION	WEIGHT
PA901083	BroadcastReady® Kit	3 lbs

BROADCASTREADY® PRO KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1179	KT8 round cable cutter
R	PA1280	CST Pro Coax tool
R	PA2280	CST Pro GRN – common connectors
R	PA2281	CST Pro OG – Kings & Amphenol 3-piece
R	PA2282	CST Pro BK – ADC, Amphenol HDTV
	N/A	Screwdriver to change dies
R	PA1543	LAN ProNavigator® tester & remote
R	PA1600	1600 Series crimp frame

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DataComm Pro Starter Kit Max

This kit is also a starter kit for datacomm professionals
- 66 piece kit
- Includes the complete solution for cutting, crimping, and terminating
- All the tools included come in a compact zipper case

CAT. NO.	DESCRIPTION	WEIGHT
PA4908	DataComm Pro Starter Kit	1.8 lbs

DATACOMM PRO STARTER KIT INCLUDES

	CAT. NO.	DESCRIPTION
R	PA1116	Data SureStrip® UTP/STP Cutter/Stripper
R	PA3570	SurePunch Pro Punchdown Tool
R	PA4528	110 Reversible blade
R	PA1561	All-in-One Phone/Data Crimp Tool
R	PA9520	(10) RJ45 Cat5e Modular Plugs
	N/A	Compact Zipper Case

PA4908

DataReady™ Pro Kit

PA901378

A complete data cable installation kit providing everything to support the installer using commonly-available connectors, and punchdown termination blocks. All tools contained in a professional-quality, soft-sided zipper case with heavy-duty wrist strap

CAT. NO.	DESCRIPTION	WEIGHT
PA901378	DataReady™ PRO Kit	4 lbs
PA9013781	DataReady™ PRO Kit - Krone*	4 lbs

DATAREADY™ PRO KITS INCLUDE

	CAT. NO.	DESCRIPTION
R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1923	Untwist Tool
R	PA3589	SurePunch Pro punchdown tool
R	PA4599	SurePunch Pro detachable LED light
R	PA4591	Double 110 blade
R	PA4571	110/ 66 blade**
R	PA1543	LAN ProNavigator® UTP/STP continuity tester & remote
R	PA8000	CrimpALL® crimp frame with EZI-CHANGE™ thumb screws

DIE SETS:

	CAT. NO.	DESCRIPTION
R	PA2061	RJ45 WE/SS-style
R	PA2062	RJ11/12 WE/SS-style
R	PA2063	RJ22 handset
R	PA2064	DRJ45 AMP-style
R	PA2067	RJ11 DEC-MMJ

  * Additional 110 blade included in PA9013781 Kit
  ** Replaced with Krone blade PA4575 (only with PA9013781 Kit)

DataReady™ Kit

PA901053

The complete Category 5 datacomm tool set in a handy zipper case. Everything needed for a CAT-5 installation except the cable

CAT. NO.	DESCRIPTION	WEIGHT
PA901053	DataReady™ Kit	3 lbs
PA9010531	DataReady™ Kit - AMP/Krone*†	3 lbs

DATEREADY™ KITS INCLUDE

R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1561	All-in-One Phone/Data tool*
R	PA3570	SurePunch Impact Punchdown Tool
R	PA4571	110/ 66 blade**
R	PA1576	Data Link/ID and Cable-Check™Tester
	N/A	(20) RJ45 plugs, Cat5e, solid/stranded; flat/round cable
	N/A	Zipper Case with Carrying Strap

* WE/SS - style replaced with AMP - style #1557
** Contains 110 & Krone blades PA4575 (only with PA9010531 Kit)
† 68 spring- compression blades precisely adjust to the insulation.

Premise Service Kit

PA91039

Our biggest data, voice, and coaxial LAN installation kit provides everything for twisted pair and coaxial cable installation. All tools contained in a professional blow-mold case complete with form-fitting foam

CAT. NO.	DESCRIPTION	WEIGHT
PA901039	Premise Service Kit	7.6 lbs
PA9010391	Premise Service Kit - AMP/Krone*	7.6 lbs

PREMISE SERVICE KITS INCLUDE

R	PA1179	KT8 round cable cutter
R	PA1257	LC-CST CATV "F" coax stripper*
R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA8000	CrimpALL® crimp frame with EZI-CHANGE™ thumb screws
R	PA3589	SurePunch Pro punchdown tool
R	PA4599	SurePunch Pro detachable LED light
R	PA4573	66 blade***
R	PA1543	LAN ProNavigator® UTP/STP continuity tester & remote
R	PA1573	Telephone Test Set & LAN Cable-Check™
R	PA1902	RJ45 8-way adapter

DIE SETS:

R	PA2062	RJ11/12 WE/SS-style**
R	PA2687	RJ45 WE/SS-style & RG6/RG6 QS CATV "F"**

*   Replaced with LC CST-58/59 coax stripper PA1255
**   Replaced with RJ45 AMP-style & RG58/59 BNC/TNC dies PA2034, PA2064, PA2065
***   Replaced with BIX or Krone blade #PA4575 (only with PA9010391 Kit)

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Network Tool Bundle

PA4909

This new bundle provides the perfect solution for the do-it-yourselfers that want to use professional tools or for small contractors just starting out installing networks. It includes everything you need but the cable to get the job done

CAT. NO.	DESCRIPTION	WEIGHT
PA4909	Network Tool Bundle	18.4 oz

PA4909 NETWORK TOOL BUNDLE INCLUDES

R	PA1116	Data SureStrip® UTP/STP & flat satin cutter/stripper
R	PA1561	All-in-One Phone & Data Tool
R	PA3580	Non-impact 110 punchdown
R	PA9546	10, RJ45 Cat5e plugs
R	PA9520	10, RJ11 plugs

N = NEW PRODUCT   R = REPLACEMENT PART   A = ACCESSORY   B = BARE TOOL

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Computer Service Kit

PA4370

- 3.6V cordless screwdriver, battery & charger
- ESD wrist strap
- 30-watt soldering iron
- Desolderer & soldering aid with pick & scraper/cutter tip
- Needle nose pliers (2)
- Angled-head lead cutter
- Insulated tweezers
- Component gripper & IC extractor
- 10-piece driver socket set
- 24-piece driver bit set: Torx, Hex, Phillips, Pozidrive, Slotted, and Square-Head
- Socket adapter/extender & socket bit holder/extender

CAT. NO.	DESCRIPTION	WEIGHT
PA4370	Computer service kit	4.5 lbs

Cordless Screwdriver & Socket Set

PA4336

- Adjustable torque up to 21.7in-lbs (2.4 N-m)
- Includes 3.6V rechargeable battery
- AC adapter/battery charger & bit holder included
- Forward/reverse direction
- One-hand operation
- Handle swings easily from pistol to rod form
- Includes 14-piece socket set: 6-12 mm; 3/16"-1/2"
- Includes 26-piece driver bits: 3 slotted, 5 Torx, 3 Phillips, 3 Robertson, 12 hex
- Accepts 1/4" bits

SPECIFICATIONS

Weight	1.38 lbs. (.63 kg)
Length	9.52" (242 mm)
Power Requirements	3.6V NiCd battery
Battery Life	Approx. 600 cycles
Charging Time	3-6 hours
AC adapter input	120VAC 50-60Hz
No-load Speed	170 rpm
Motor	3.6VDC
Max. torque	21.7 in-lbs. (2.4 N-m)

Not for use on precision torque screw requirements.

CAT. NO.	DESCRIPTION
PA4336	Cordless screwdriver & socket set
PA6000	Replacement battery
PA6001	Battery charger

R

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Voice and Category 5 Data Termination Kit

45469

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

CAT. NO.	UPC NO.	DESCRIPTION
45469	45469	Voice and Category 5 Data Termination Kit
Kit Includes:		
45482	45482	Cable Cutter
45579	45579	Kwik Stripper® Twisted Pair Stripper
46023	46023	Punchdown Tool with 110 Blade
46022	46022	66 Style Punchdown Blade
45575	45575	Telephone Ratchet Crimper for 4-, 6- and 8- Position Modular Plugs
45479	45479	Zipper Case

Category 5 Data Termination and Test Kit

45470

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

CAT. NO.	UPC NO.	DESCRIPTION
45470	45470	Category 5 Data Termination and Test Kit
Kit Includes:		
45482	45482	Cable Cutter
45579	45579	Kwik Stripper® Twisted Pair Stripper
46023	46023	Punchdown Tool with 110 Blade
45575	45575	Telephone Ratchet Crimper for 4-, 6- and 8- Position Modular Plugs
468T	60379	Modular Cable Tester Transmitter with Tone Generator
468R	60380	Modular Cable Tester Receiver
45485	45485	Zipper Case

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HAND TOOLS
Telecom Splice Crimpers

PA1180

PA1178

- Side cutter for AWG 19-26 copper
- Non-slip grips for precision control
- Limited lifetime warranty
- Crimp capacity
  – UR: AWG 19-26
  – UY: AWG 22-26
  – UG: AWG 19-26

PA1180 only
- Stripping cavity for AWG 22 wire
- Needle-nose with knurled surface for gripping, wrapping and looping

CAT. NO.	DESCRIPTION
PA1180	4-in-1 Telecom Splice Crimper
PA1178	Telecom Splice Crimper

Round Cable Cutters

PA1175

PA1179

- Cuts solid or stranded cable up to AWG 6
- Precise and effortless cuts
- Round cutting form won't deform cables
- Ideal for UTP and Coax, RG58, RG59 and RG6/6Q;
  RG7 and RG11 with PA1175
- Limited lifetime warranty

CAT. NO.	DESCRIPTION
PA1175	Contour Round Cable Cutter
PA1179	Dual-Contour Round Cable Cutter

Cable Cutter, 8 AWG

45482

- 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
- Curved cutting blades ensure an easy cut
- Economically priced
- Cushioned-grip handle for comfortable use
- Heat-treated for long life
- Stamped and precision ground from high-carbon tool steel
- Return spring
- Locking latch
- Rust-resistant black oxide finish

CAT. NO.	UPC NO.	DESCRIPTION
45482	45482	Cable Cutter

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Cable Splicer's Knife and Splicer's Snips

PT-K01A

- Cuts cable, telephone wire and strips insulation
- Tough, tempered steel knife blade holds its edge longer
- Full-sized knife handle provides greater comfort
- Knife has a short, coping-type blade made of the finest cutlery steel
- Scissors have an upper blade with two stripping notches to strip most insulations from 19-24 AWG.

CAT. NO.	UPC NO.	DESCRIPTION
PT-K01A	12997	Scissors and Knife Kit in Pouch

DataComm Snips, Electrician's Snips

- Cuts, strips and trims data and phone cables
- Ergonomic design nests in hand for comfort and added cutting power
- One fully serrated blade for clean cuts
- "V" stripping notches for 19 and 23 AWG wire
- Manufactured from high-carbon steel, chrome over nickel plate

PT-T03

CAT. NO.	UPC NO.	DESCRIPTION
PT-T03	89195	Snips

Pro Stainless Steel Wire Strippers / Cutters / Crimpers

NEW PRODUCT

LIFETIME G WARRANTY

- Cutlery grade stainless steel prevents wear and corrosion to provide 5X longer life
- Pliers grab, form and bend wires
- Precision ground strippers engineered for clean, easy insulation removal
- Bolt Threaders clean threads after shearing
- Comfort Grips are double molded, lightweight and easy to grab
- Professional, multi-function tool includes a crimper, looper, non-obstructive lock mechanism, spring return, and high grade shears
- Note: this is not an insulated tool
- Lifetime warranty

1955-SS

CAT. NO.	UPC NO.	DESCRIPTION	SOLID STRIP	STRANDED STRIP	BOLT SHEAR	CRIMP
1950-SS	02241	Pro Stainless Wire Stripper / Cutter / Crimper	10-18	12-20	6-32, 8-32	16-10
1955-SS	01361	Pro Stainless Wire Stripper / Cutter / Crimper (Curve)	10-18	12-20	6-32, 8-33	16-10
1956-SS	02242	Pro Stainless Wire Stripper / Cutter / Crimper (Curve)	6-14	8-16	6-32, 8-34	16-10

GripP-Strippers 10 & 20

PA1117

- Head of tool and handles designed at optimum 22º angle to prevent awkward wrist bends
- Precision grould blades ensure consistent stripping and cutting
- Features screw cutter and wire loops embedded in frames
- Built-in safety lock
- Gripping jaws on front of tool for pulling wire
- PA1117 will work on Romex household cable
- Note: This is not an insulated tool

CAT. NO.	DESCRIPTION	CAP (AWG)	
		SOLID	STRANDED
PA1117	GripP 10 cutter/stripper	10-22	12-24
PA1118	GripP 20 cutter/stripper	20-30	22-32
PA1123	Wire Stipper Bundle, includes both PA1117 and PA1118		

Do not use on live circuits.

stripax® Pro 6

PA2113

- Strips heavy-duty and industrial insulations including THHN & THHW
- Strips standard insulations including PVC, rubber and silicone.
- Provides nick-free stripping of insulation with no damage to conductors
- Built-in cutter provides a smooth, straight cut without distorting the conductor
- Fine adjustment slider on top of tool lets you adjust to the insulation thickness
- Handles designed for comfort and require low hand force
- Not for Teflon or Kapton hard insulations (use part number PA1115P mini-stripax Plus with a Teflon blade for these insulations)
- Perfect companion for any of our wire ferrule crimpers
- Strippers carry a lifetime warranty; blade warranty is one year for defects only
- Lifetime limited warranty

68 spring- compression blades on Pro 6†

Adjustable wire stop to set strip lengths

Cutter on bottom means less hand force required

Round stripping blades on Pro 16 cut insulation cleanly

CAT. NO.	DESCRIPTION	WEIGHT
PA1113	stripax® Pro 6 (28-10 AWG) (.08-6.0 mm2)	5.5 oz
PA2113	stripax® Pro 6 replacement stripping blade set	

Do not use on live circuits
† 68 spring- compression blades precisely adjust to the insulation.

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mini-stripax® plus

LIFETIME **G** WARRANTY

PA1115P

- Strips flexible and solid conductors with PVC, Teflon, silicone and other special insulations
- Strips multiple conductors and thin ribbon-cable conductors simultaneously
- Adjustable wire stop and built-in wire cutter
- 28-18 AWG (0.80-1.0 mm2) PVC blade included
- See replacement blades in next section
- Limited lifetime warranty

Strips PVC only. Do not use on live circuits.
For Teflon, order blades separately see below in mini-stripax plus Replacement Blades Section.

CAT. NO.	DESCRIPTION	WEIGHT
PA1115P	mini-stripax® plus (28-18 AWG)	4 oz

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Adjustable Wire Stripper & Cutter

PA1161

- Economical wire stripping tool for multiple cables
- Made of high carbon steel and heat treated for long life
- Adjustable settings for wire sizes from 30-10 AWG

Do not use on live circuits.

CAT. NO.	DESCRIPTION	WEIGHT
PA1161	Adjustable wire stripper & cutter (30-10 AWG)	3 oz

Combo UTP/Coax SureStrip®

PA1119

- Professional all-in-one cutter/stripper for coaxial and twisted pair cables
- Cuts and strips multiple cable types:
  – Coax: RG6, RG6 Quad and RG59
  – Twisted Pair (UTP/STP): Cat6, Cat5e and Cat5
- Easy-to-use combination cutter/stripper
- Adjustable stripping blade for UTP/STP; accommodates different insulation thicknesses without damaging conductors
- Self-regulating cassette blade prevents nicks
- Coax blade cassette is removable to adjust stripping depth of both blades with hex key included (Note: Hex key stores securely in bottom of tool)
- Contoured finger grips for cutting power

CAT. NO.	DESCRIPTION	WEIGHT
PA1119	Combo UTP/Coax SureStrip®	2.5 oz
PA2119	Coax Blade Cassette	—
PA2120	UTP Cut/Strip Blade	—

Data SureStrip®

PA1116

- Small, compact tool that cuts and strips multiple cable types:
  – 4-, 6- and 8- conductor flat satin cables
  – 4-, 6- and 8- conductor UTP/STP data cables
  – 25- vpair UTP/STP data and telephone cables
- Multi-conductor round bundled cables with a maximum diameter of .5" (12.7 mm)
- 14-8 AWG (2.5-75mm2) wire
- Nylon reinforced ABS plastic with stainless steel blade
- Fully adjustable with simple thumb screw
- Self-regulating to prevent nicking
- Contoured finger grips for power cutting

CAT. NO.	DESCRIPTION	WEIGHT
PA1116	Data SureStrip®	2.5 oz

CST vario Stripper

PA3242

PA3240

- Most flexible coax stripping tool on the market
- Easy to set up and adjust
- Two- and three-level stripping
- Minimum center-to-center strip length is 0.13" (3.2 mm)
- Maximum total strip length is 0.67" (17 mm)
- Adjustable blade positioning in 0.04" (1 mm) increments
- Lifetime warranty on frame only

*Not recommended for use on LMR or Teflon cables.

CAT. NO.	DESCRIPTION
PA3240	CST vario stripper
R PA3242	Replacement blade holder, blades & allen hex key

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CST Strippers

PA1240
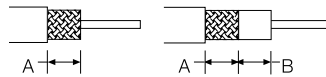
- Fixed blade system that accommodates 0.1"-0.315" (2.5-8.0mm) cable diameters including RG58/59/62AU, RG6, RG6 Quad, RG174, Belden 1505A, 1855A and 8281
- Cam adjustment ensures precise and repeatable hold on cable
- Memory blocks reduce set-up time and are easy to interchange and mark for various applications
- Blades are two-sided for longer use
- No cable jacket distortion during stripping process
- Blade cassettes easy to change
- Lifetime warranty on frame only

CAT. NO.	DESCRIPTION	COMMON USES
PA1240	CST Green - 3 Level (A=.279, B=.201)	Common 2- & 3-piece
PA2240	Green Blade Cassette only	
PA1243	CST Brown - 3 Level (A=.295, B=.137)	
PA2243	Brown Blade Cassette only	
PA1247	CST Orange - 3 Level (A=.327, B=.146)	Kings, Amphenol 3-piece
PA2247	Orange Blade Cassette only	
PA1248	CST Black - 3 Level (A=.344, B=.094)	ADC, Amphenol HDTV
PA2248	Black Blade Cassette only	
PA1250	CST Frame only	
PA2245	CST Memory Cartridge only	

Y-block – inserts into tool to tighten up rollers for smaller cable sizes

PA2245

PA2240   PA2247   PA2248

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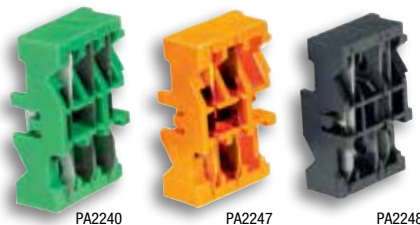
CST Pro Coax Stripper

PA1282

PA2284
Reversible Rollers

PA2282   3 Level   Blade Adjustment Screws
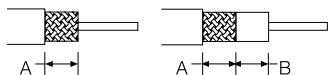
- New patent-pending coax stripping system for precision & accuracy
- Works with a wide range of cable diameters from .1" - .315" (2.5-8.0mm) including: RG58/59/62AU, RG6/6QS, RG174, Belden 1505A, 1855A & 8281 and mini-coax
- Pre-set for standard 2- and 3- level strip lengths
- Coax stripper designed for pros requiring precision, versatility & ease of use.
- Reversible-rollers easily adjust for various cable sizes including mini-coax.
- Dual roller mechanism perfectly centers cable & applies equal pressure to eliminate cable distortion
- Quick-change pre-set blade cassettes
- Cam adjustment ensures precise hold on cable
- Fixed blade cassettes pre-set for standard 2- and 3- level strip lengths
- Interchangeable blades reduce set-up time
- Lifetime warranty on frame only

CAT. NO.	DESCRIPTION	COMMON USES
PA1280	CST Pro Green 3-level (A=.279, B=.201)	Common 2- & 3-piece
PA2280	Green Blade Cassette only	
PA1281	CST Pro Orange 3-level (A=.327, B=.146)	Kings, Amphenol RFX 3-piece
PA2281	Orange Blade Cassette only	
PA1282	CST Pro Black 3-level (A=.344, B=.094)	ADC, Kings, Amphenol HDTV, Mini's
PA2282	Black Blade Cassette only	
PA1283	CST Pro Blue 2-level (A=.250)	Standard RG6/6QS & RG59, CATV "F", Mini's
PA2283	Blue Blade Cassette only	
PA1285	CST Pro Frame only	
PA2284	CST Pro Rollers only	

LC CST Strippers

PA1255

CAT. NO.	DESCRIPTION
PA1255	LC CST-58/59 – 2- & 3-Level, Adjustable
PA1256	LC CST-11 – 2- & 3--Level, Adjustable
PA1257	LC CST CATV "F" – 2-Level
PA1258	LC CST-Mini
[R] PA2263	Replacement Blade

- Self-regulating tension
- Adjust cutting depth on each blade for varying cable thicknesses with the included hex key
- Pre-set for common strip lengths
- Blades adjust for strip dimensions other than our standard pre-set units*

SPECIFICATIONS	PRESET STRIP LENGTHS*	CABLE USAGE
LC CST-58/59	0.315" outer jacket 0.157" inner dielectric	RG58, RG59, RG62 AU & RG6
LC CST-11	0.315" outer jacket 0.157" inner dielectric	RG8, RG11 & RG213
LC CST CATV "F"	0.236" outer jacket	RG59, RG6 & RG6 QUAD CATV"F" (preset for RG6 CATV "F")
LC CST-Mini	0.344" outer jacket 0.094" inner dielectric	RG178, RG179, RG188, AT&T 735(A), NT735, Belden 1855A, Belden 8218, RG180, RG187, RG188A, RG405 and more

*To adjust strip lengths simply change blade locations in the lower jaw to attain the following: .157" (4 mm), .236" (6 mm), .315" (8 mm), .394" (10 mm) and .472" (12 mm)

Not recommended for use on LMR or Teflon cables.

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Kwik Stripper® Twisted Pair Stripper

45579

- No tool is better for trimming the jacket from twisted pair cable without damaging the individual conductors
- Blade depth adjustment ensures precise cutting depth
- Blade penetration controlled by tension loop
- Strip length gauge

CAT. NO.	UPC NO.	DESCRIPTION
45579	45579	Kwik Stripper® Twisted Pair Stripper

45579
Typically used for Modular Plug Connectors (See pages 373)

Pro Kwik Stripper® CATV

45591

- Designed for the professional CATV cable installer. Uses reversible stripping cartridges for RG6, RG59, RG11 and RG7 CATV cables that are replaceable
- No adjustments needed
- Included with the tool, the RG6/RG59 cartridge strips cable jacket and dielectric to 1/4" (6.4 mm)
- Included with the tool, the RG11/RG7 cartridge strips cable jacket and dielectric to 1/4" (6.4 mm)
- Extra-large finger hole

CAT. NO.	UPC NO.	DESCRIPTION
45591	01174	Pro Kwik Stripper® CATV

AM 25 Slitter

- Strips and slits 0.18" to 1.0" (4.5-25mm) diameter Round Cables
- Adjustable cutting depth
- Swivel blade for circular, longitudinal and spiral cuts
- Spare blade in handle
- Cable holding clip with integrated edge for removing slit insulation
- Laser-trimmed, stainless-steel blade for long use
- Slits PVC, Teflon and THHN
- Perfect for armored cable

CAT. NO.	DESCRIPTION
PA1820	AM 25
PA2109	Replacement blade

NOTE: Do not use on live circuits. Not for polyethylene, polypropylene or XLP insulations

Teflon® is a registered trademark of Dupont

PA1820

AM 35 Slitter

- Strips and slits 1.0" to 1.4" (25-35mm) diameter Round Cables
- Adjustable cutting depth for insulation up to 0.18" (4.5 mm) thick
- Swivel blade for circular, longitudinal and spiral cuts
- Spare blade in handle
- Cable holding clip with integrated edge for removing slit insulation
- Laser-trimmed, stainless-steel blade for long use
- Slits PVC, Teflon and THHN

CAT. NO.	DESCRIPTION
PA1821	AM 35
PA2109	Replacement blade

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NOTE: Do not use on live circuits. Not for polyethylene, polypropylene or XLP insulations

PA1821

Universal Slitter

- Strips and slits 0.18" to 1.0" (4.5-25mm) diameter Round Cables
- Precision stripping and slitting of rubber, PVC, nylon and most insulation materials
- Adjustable depth of cut
- Swivel blade for circular, longitudinal and spiral cuts
- Cable is supported during use
- Cable support arm edge is used to pry off thick insulation
- Laser-trimmed, stainless-steel blade for long use
- A perfect tool for mid-point taps
- Spare blade included

PA1822

CAT. NO.	DESCRIPTION
PA1822	Universal splitter
PA2109	Replacement blade

NOTE: Do not use on live circuits. Not for polyethylene, polypropylene or XLP insulations

Pocket Cable Stripper

1903

- Specifically designed for stripping power and telecommunications cables from 3/4" to 1-1/2" in diameter (19 mm to 40 mm)
- Strips solid conductor, stranded conductor and multiple conductor cables
- Easy blade depth adjustment
- Blade rotates for circular, longitudinal and spiral cuts.

	CAT. NO.	UPC NO.	DESCRIPTION
	1903	12679	Cable Stripping Tool
R	13544	13544	Replacement Blade (2 per package)
R	13545	13545	Replacement Small Hook
R	13546	13546	Replacement Large Hook

Cable TV "F" Flaring & Attachment Tool

LIFETIME WARRANTY G

PA1927

- Flares RG59, RG6 and RG6 Quad Cable types
- Works with CATV "F" connectors
- Save time on cable TV and satellite installations
- Flare the shield braid back from the dielectric without nicking your finger
- Make connections faster and easier with properly prepped cable
- Attachment tool enables you to hold the connector comfortably to insert onto cable

CAT. NO.	DESCRIPTION
PA1927	Cable TV "F" Flaring & Attachment Tool

Coax 3-Way Tool

LIFETIME WARRANTY G

PA1928

- Flares RG6 and RG6 Quad Cable types
- Flares shield braid back from the dielectric without nicking your fingers
- Attachment tool enables you to hold the connector comfortably to insert connector onto cable
- Extraction tool to assist in coupling connector to port or to assist in uncoupling from port
- Works with CATV "F" connectors

CAT. NO.	DESCRIPTION
PA1928	Coax 3-Way Tool

RG59/RG6/RG6 Quad Flaring Tool

- Works on RG59 and RG6/6 Quad cable
- Flares shield away from center dielectric
- Saves time on CATV and satellite installation

PA1917

CAT. NO.	DESCRIPTION
PA1917	RG59/6/6QS flaring tool

BNC and CATV "F" Extraction Tools

- Chrome finish
- Comfortable driver-style plastic handle
- 1908 CATV "F" is a combination tool. Use the hex socket to easily remove and insert the connectors; Use the threaded end to hold the connector while you insert cable for connectors. Helps to prevent finger injuries

PA1907

PA1908

PA1916

CAT. NO.	DESCRIPTION
PA1908	CATV 8" (203 mm)
PA1907	BNC 8" (203 mm)
PA1916	BNC 12" (305 mm)

SealTite® ProM Coax Crimper

- Crimps weatherproof linear CATV "F", BNC, RCA & right- angle compression-type connectors from all manufacturers
- Works with RG6, RG6 Quad, RG59 & RG62AU coax cables
- Versatile tool - accommodates multiple connectors
- The only tool with a single, reversible head eliminating need for adapters.
- No additional parts, attachments or other tools required to change from one crimp style to another
- Quickly & easily adjust crimp height
- Once properly set, lock with adjustment lock
- Rated life cycle 30,000 (unloaded)

PA1559

CAT. NO.	DESCRIPTION
PA1559	SealTite® ProM Coax Crimper

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RG59/6Q-7/11 Pro Coax Compression Tool

PA70020

- Versatile tool crimps RG59, RG6, RG6 Quad , RG 7/11, BNC and RCA Compression Connectors
- Cable holder rotates to accommodate different connector sizes
- Adjustable Crimp length accommodates most manufacturers' connectors
- Once adjusted, no additional parts or adapters are needed to change from one crimp style to another

CAT. NO.	DESCRIPTION
PA70020	RG59/6Q-7/11 Pro Coax Compression Tool

SealTite® 59/6 CATV "F" Compression Crimper

PA901024

- Performs compression crimping of waterproof CATV "F" connectors for RG59 and RG6/RG6 Quad 75 ohm coaxial cables
- Works on Augat/T&B Snap-N-Seal™ connectors, AIM CATV "F" waterproof connectors and Paladin SealTite™ connectors
- Fully ratcheting one-cycle crimp function

CAT. NO.	DESCRIPTION
PA901024	SealTite® Crimper

N = NEW PRODUCT   R = REPLACEMENT PART   A = ACCESSORY   B = BARE TOOL

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SealTite® Cable TV "F" Compression Connectors

PA9642

- Large hex nut for easy installations
- Patented design with 360º cable gripping sleeve
- Solid brass construction with nickel plating to prevent UV degradation

DESCRIPTION	RG59 CAT. NO.	RG6 & RG6 Quad CAT. NO.	RG6 Quad CAT. NO.
10 Pack Clamshell	PA9642	PA9643	PA9644
20 Pack Clamshell	PA9610	PA9611	PA9612
50 Pack Jar	PA9645	PA9646	PA9647
100 Pack Bulk	N/A	PA9614	PA9615

Also available in retail jar pack, PA9687.

SealTite® RCA Compression Connectors

PA9714

- Patented design with 360º cable gripping sleeve
- Full gold contacts for low signal loss
- Includes slip-on color bands for easy cable identification
- A set of bands includes 4 red, 2 green, 2 blue, 2 yellow and 2 white per ten connectors
- Constructed from solid brass with nickel plating

DESCRIPTION	RG59 CAT. NO.	RG6 & RG6 Quad CAT. NO.
10 Pack Clamshell	PA9720	PA9714
50 Pack Jar	PA9721	PA9716

SealTite® BNC Compression Connectors

PA9715

- Patented design with 360º cable gripping sleeve
- Full gold contacts for low signal loss
- Includes slip-on color bands for easy cable identification
- A set of bands includes 4 red, 2 green, 2 blue, 2 yellow and 2 white per ten connectors
- Constructed from solid brass with nickel plating

DESCRIPTION	RG59 CAT. NO.	RG6 & RG6 Quad CAT. NO.
10 Pack Clamshell	PA9730	PA9715
50 Pack Jar	PA9731	PA9740

Hex Crimp Cable TV "F" Connectors

PA9676

- Crimp-on style cable TV "F" connectors
- All-brass with nickel plating for durability
- Designed for indoor use

DESCRIPTION	RG59 CAT. NO.	RG6 CAT. NO.	RG6 Quad CAT. NO.
10 Pack Clamshell	PA9676	PA9677	PA9678

Twist-On Cable TV "F" Connectors

PA9694

- Connectors twist onto cable for quick installation
- Sharp threads firmly grip cable for good connections
- EZ-SPIN™ hex nut for easy installation

DESCRIPTION	RG59 CAT. NO.	RG6 CAT. NO.
10 Pack Clamshell	PA9694	PA9695

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Push-On Cable TV "F" Connectors

PA9682

- No crimp tool required. Simply strip cable and push connector onto it
- Special knurled nut offers superior grip for strong connection
- All brass, nickel-plated for durability and low signal loss
- For indoor usage only

DESCRIPTION	RG59 CAT. NO.	RG6 CAT. NO.
10 Pack Clamshell	PA9682	PA9683

Other Coaxial Connectors

PA9719

PA901074

Connect CATV "F" cables to RCA plugs.
- Eliminate the need for new cabling
- Solid brass with nickel plate
- 75 ohm rating

CAT. NO.	DESCRIPTION
PA9719	Adapter, CATV "F" (female) to RCA (male) (Qty. 10)
PA901074	Adapter, CATV "F" (female) to BNC (male) (Qty.1)

Dual Port Ground Block

PA9675

- Provides a positive ground connection between two coaxial shields and the ground wire
- Creates a connection for the dissipation of any unwanted electrical charges
- Solid nickel plated zinc alloy
- High-performance, 360º contact, for up to 3.0 GHz
- Suitable for satellite or cable TV
- UL/CSA approved

CAT. NO.	DESCRIPTION
PA9675	Dual Port Grounding Block

Cable TV "F" Terminators

PA9686

- Solid brass body with nickel plating
- ½ watt resistor (5% tolerance); 75 ohm

CAT. NO.	DESCRIPTION
PA9686	CATV "F" Terminators (10)

Female Splice Adapter

PA9675

- Cable TV "F" female-to-female barrel adapter
- Designed for performance up to 3.0 GHz
- Gold-plated contacts
- 2 pack

CAT. NO.	DESCRIPTION
PA9675	Female Splice Adapter

BNC Coaxial Adapter

45728

- Precision manufactured from machined brass and nickel plated for corrosion resistance

CAT. NO.	DESCRIPTION
45728	BNC Straight Jack to Jack (1)

Cable TV Splitters

PA9688

PA9689

PA9690
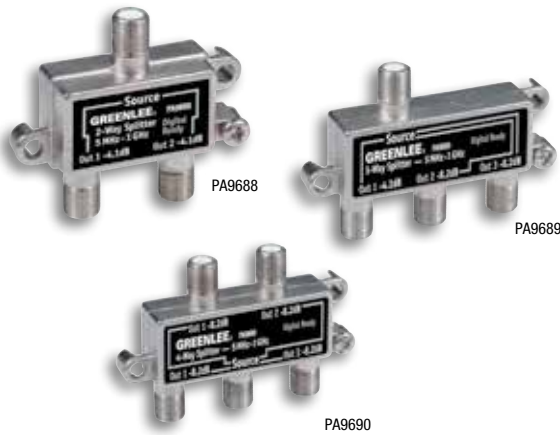
- Split analog and digital cable TV signals to 2 to 4 outlets
- HDTV compatible and works with cable modems
- 75 ohm impedence
- 5-1000 MHz bandwith
- "F"-style female ports

CAT. NO.	DESCRIPTION
PA9688	2-Way Cable TV Splitter
PA9689	3-Way Cable TV Splitter
PA9690	4-Way Cable TV Splitter

Satellite TV Splitters

PA9669

PA9670

PA9671

- Split satellite and digital signals to multiple outlets
- Compatible with most digital satellite brands, digital cable TV and HDTV.
- 75 ohm impedence
- 5-2400 MHz bandwith
- "F"-style female ports

CAT. NO.	DESCRIPTION
PA9669	2-Way Satellite TV Splitter
PA9670	3-Way Satellite TV Splitter
PA9671	4-Way Satellite TV Splitter

Satellite Diplexer

PA9673

- Combines signal from satellite dish and UHF/VHF antenna into single coax cable output
- 5-860 MHz antenna and 950-2450 satellite power pass
- For RG6 or RG6 Quad
- An additional diplexer can be used to split signals again for connection to satellite and antenna ports on receivers
- Diplexed signals can be distributed through an amplifier to send signal to multiple outlets

CAT. NO.	DESCRIPTION
PA9673	Satellite Diplexer

In-Line Amplifier

PA9672

- Boost signals to multiple outlets or on long cable runs
- Works with satellite dish or terrestrial antenna installations with over 50' of cable
- Digital TV ready
- 20 dB gain
- DC 12-18V
- 950-2400 MHz maximum bandwidth

CAT. NO.	DESCRIPTION
PA9672	In-Line Amplifier

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SurePunch Pro Punchdown Tool

LIFETIME G WARRANTY

PA3590

- Terminate cable in single punch - including 23 AWG Cat6
- Detachable light with long-life LED specially designed to focus the light on the panel work area
- Luminous intesity of the LED is 2200 mcd
- Finger grips and non-slip rubber-embedded cushioned handle for comfort
- Multi-use spudger that can be used as a screwdriver or an IDC contact insertion tool
- Hook to feed wires through holes
- Pick to separate bonded twisted-pair cables or to strip insulation and cut wire
- Adjustable HI/LO spring compression for all cable types
  LO = 27.5 lbs (122 N), HI = 37.5 lbs (167 N)
- Uses twist-and-lock style blades
- Blade storage area in end of handle with comfortable latch cover

CAT. NO.	DESCRIPTION
	Tools with lights
PA3590	SurePunch *Pro* PDT handle (no blade) and light
PA3584	SurePunch *Pro* PDT with Double 110 blade and light
PA3587	SurePunch *Pro* PDT with 110 & 66 reversible cut & punch/punch-only blades and light
PA3588	SurePunch *Pro* PDT with 1110/66 combination cut-only blade and light
PA3596	SurePunch *Pro* PDT with 110 reversible cut & punch/punch-only blade and light
PA3598	SurePunch *Pro* PDT with BIX™ cut-only (scissors type) blade and light
PA3599	SurePunch *Pro* PDT with Krone® LSA cut-only (scissors type) blade and light
	Tools without lights
PA3589	SurePunch *Pro* PDT handle (no blade)
PA3585	SurePunch *Pro* PDT with Double 110 blade
PA3586	SurePunch *Pro* PDT with 110 & 66 reversible cut & punch/punch-only blades
PA3591	SurePunch *Pro* PDT with 1110/66 combination cut-only blade
PA3592	SurePunch *Pro* PDT with 110 reversible cut & punch/punch-only blade
PA3593	SurePunch *Pro* PDT with 66 reversible cut & punch/punch-only blade
PA3595	SurePunch *Pro* PDT with Krone® LSA cut-only (scissors type) blade
PA4599	SurePunch *Pro* PDT detachable light and batteries

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SurePunch Punchdown Tools

PA3570

- Cushion grip, molded to the shape of your hand, for comfort and a sure, non-slip hold
- Increased HI/LO impact force to meet demands of new cable types and AWG sizes: LO= 30 lbs (133 N), HI= 40 lbs (178 N)
- For 28-22 AWG (0.08 - 0.34 mm2), solid or stranded wire
- Uses twist-and-lock style blades
- Cushioned heel for comfort in the palm of your hand
- New latch cover blade storage area in end of handle
- Lanyard holes in end

PA4591 PA4573 PA6514 PA4571 PA4574 PA4572 PA4575

CAT. NO.	DESCRIPTION
PA3570	SurePunch PDT® handle (no blade)
PA3571	SurePunch PDT® with 110/66 combination cut-only blade
PA3572	SurePunch PDT® with 110 reversible cut & punch/punch-only blade
PA3573	SurePunch PDT® with 66 reversible cut & punch/punch-only blade
PA3574	SurePunch PDT® with BIX™ cut-only (scissors type) blade
PA3575	SurePunch PDT® with Krone® : SA (scissors type) blade
PA3576	SurePunch PDT® with Double - 110 blade
PA3579	SurePunch PDT® with both 110 and 66 reversible cut & punch/punch-only blades
R PA4571	SurePunch 110/66 combination cut-only blade
R PA4572	SurePunch 110 reversible blade
R PA4573	SurePunch 66 reversible blade
R PA4574	SurePunch BIX™ cut-only blade
R PA4575	SurePunch Krone® LSA cut-only blade
R PA4591	SurePunch Double - 110 blade
PA6514	Telephone Unwrap Bit

Impact Punchdown Tools

PA3528

- For 28-24 AWG Solid or Stranded conductor
- Standard impact compression design
- Adjustable HI/LO settings for compression force
- Impact force: HI = 35 lbs. (110 N), LO = 25 lbs. (155 N)
- Reversible clip-in blades (except BIX & Krone)
- Punches down with or without cut function (except BIX & Krone)
- Spare blade stores in handle of tool (except BIX & Krone)
- Impact handle and blades available separately
- Leather holster available to attach to belt

PA4527 PA4528 PA4531

CAT. NO.	DESCRIPTION
PA3526	Impact punchdown (tool handle only)
PA3527	Impact punchdown w/66 blade
PA3528	Impact punchdown w/110 blade
R PA4527	Replacement 66 blade
R PA4528	Replacement 110 blade
R PA4531	Replacement Krone®-type blade

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Punchdown Tool

- Inserts wire for a corrosion-resistant termination and trims off excess wire
- Terminates 66, 110, BIX and Krone cross-connect and wall jacks
- Spring-loaded for fast, low-effort wire seating and termination
- Internal impact mechanism eliminates jamming for longer, trouble-free service life
- 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

46023

CAT. NO.	UPC NO.	DESCRIPTION
46020	46020	Punchdown Tool Only
46021	46021	Punchdown Tool w/66 Blade
46023	46023	Punchdown Tool w/110 Blade
R 46022	46022	66 Style Blade
R 46024	46024	110 Style Blade
R 46025	46025	BIX Style Blade

ProPunch™ 110 Multi-pair Punchdown

LIFETIME **G** WARRANTY

PA3560

Terminates and cuts up to five pairs of data/voice cable at the same time! We designed it to perform over 30,000 cycle punches and to terminate most 23 AWG cable pairs in one punch! This tool delivers more than one and a half times the force of other multi-punchdown tools on the market today. The rugged "no-slip" handle fits comfortably in your hand with the handle end contoured to the heel of your hand

- Fewer punches saves time
- Smooth operation and rugged, comfortable handle absorbs punch recoil
- Terminates 28-22 AWG (.08 - .34 mm2) solid or stranded wires with single insulation
- Cut and punch blade cassette or switch blades for punch only
- Designed to work with 23 AWG CAT 6 cable

CAT. NO.	DESCRIPTION
PA3560	ProPunch 110 with 5-pair head
PA3561	ProPunch 110 with 4-pair head
R PA4560	Replacement 5-pair head
R PA4561	Replacement 4-pair head
R PA4562	Replacement 5-pair blade cassette
R PA4563	Replacement 4-pair blade cassette

Non-Impact Punchdown Tools with Fixed Blades

PA3580

PA3581

PA3582

- Non-impact, low-cost punchdown tools for 110, 66 & BIX
- Works with 28-22 AWG (.08 - .5 mm2)
- Solid or stranded, single insulation wire
- Comfortable rubber handle grip
- Performs both cut and punch functions
- Perfect for small jobs and the do-it-yourself installer
- Fits in the palm of your hand
- Typically lower in cost than replacement blades for punchdown tools

CAT. NO.	DESCRIPTION	WEIGHT
PA3580	110 Punchdown Tool	3 oz
PA3581	66 Punchdown Tool	3 oz
PA3582	BIX™ Punchdown Tool	3 oz

Punchdown Stripper

PA1913

- Self-regulating strip depth
- Fast and easy to use
- Great for CAT-5, CAT-5e, and CAT-6 data cable
- Built-in 110 punchdown (punch only)

CAT. NO.	DESCRIPTION	WEIGHT
PA1913	Punchdown stripper	2 oz

Pocket Probe Pick

open

PA1915

closed
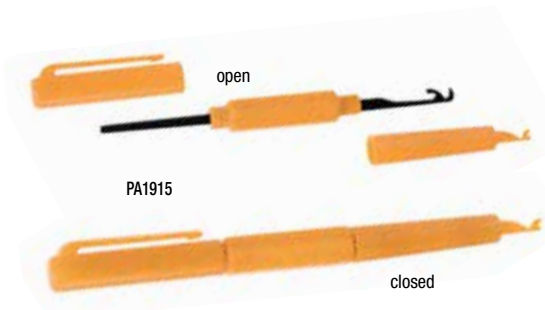
Probe pick for pulling wire, slicing, stripping cable and cleaning debris off terminal panels. Small and lightweight—pen-sized with clip for carrying in pocket
- Spudger tip
- Wire hook
- Wire stripper and slitting tooth
- Non-conductive scraping tip

CAT. NO.	DESCRIPTION	WEIGHT
PA1915	Pocket probe pick	3 oz

Can Wrench

PA1900

- Strips PVC insulation
- Strips outer jacket of AWG 22/4 and 24/4 telephone cable
- Strips insulation of AWG 22 (.34 mm2) and AWG 24 (.20 mm2) wire
- 3/8" (9.5 mm) and 7/16" (11 mm) hex sockets for accessing panels
- Durable shock-resistant design

CAT. NO.	DESCRIPTION: HEAVY DUTY KEYSTONE TIP-	WEIGHT
PA1900	Can Wrench	5 oz

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Jack Terminator

PA8100

- High-grade, hardened steel frame offers superior performance and durability
- Ratcheted action to ensure proper, consistent termination
- Adjustment feature for extra leverage applications
- Quick-change punch sets require no tools
- Removable jack cradle allows for alternate lacing option
- Punch heads can be purchased separately
- Rubber-embedded handles provide extra comfort
- For use with Modular Jacks listed below including CommScope® (Systimax®, Uniprise®), Leviton®, OCC®, HellermannTyton®, Hubbell®Premise Wiring and Legrand® (Ortronics®)
- Lifetime Warranty (crimper frame only)

SPECIFICATIONS

Specifications	PA8100	General Jack Terminator™ With Punch Down Head-Set	General Punchdown Head-Set	General Punch Head Only
Length	9.6" (245 mm)	9.75" (248 mm)	1.6" (40 mm)	1" (26 mm)
Height	3.25" (80 mm)	4" (102 mm)	4" (102 mm)	2.1" (55 mm)
Width	1.25" (32 mm)	1.25" (32 mm)	1.25" (32 mm)	1.25" (32 mm)
Weight	1.25 lbs (575 g)	1.4 lbs (652 g)	2 oz (54 g)	0.8 oz (23 g)

	CAT. NO.	DESCRIPTION	JACK COMPABILITY
	PA8100	Jack Terminator™ Crimper Frame	Punchdown Head Set not Included
	PA8105	Jack Terminator™ with Punchdown Head-Set	Systimax® - MPS100E, Uniprise® UNJ600/500
R	PA3711	Replacement Punchdown Head-Set	Systimax® - MPS100E, Uniprise® UNJ600/500
R	PA3811	Replacement Punch Head Only	Systimax® - MPS100E, Uniprise® UNJ600/500
	PA8106	Jack Terminator™ with Punchdown Head-Set	Systimax® - MGS400, MGS500, MGS600
	PA3712	Replacement Punchdown Head-Set	Systimax® - MGS400, MGS500, MGS600
	PA8107	Jack Terminator™ with Punchdown Head-Set	Leviton® - 41106, 41108, 5G108
	PA3713	Replacement Punchdown Head-Set	Leviton® - 41106, 41108, 5G108
	PA8108	Jack Terminator™ with Punchdown Head-Set	Leviton® - 61110, 5G110, 6110G
	PA3714	Replacement Punchdown Head-Set	Leviton® - 61110, 5G110, 6110G
	PA8109	Jack Terminator™ with Punchdown Head-Set	OCC® - KMJA5E, KMJA6, K6A
	PA3715	Replacement Punchdown Head-Set	OCC® - KMJA5E, KMJA6, K6A
	PA8110	Jack Terminator™ with Punchdown Head-Set	HellermannTyton® - RJ45FC5E, RJ45FC6
	PA3716	Replacement Punchdown Head-Set	HellermannTyton® - RJ45FC5E, RJ45FC6
	PA8111	Jack Terminator™ with Punchdown Head-Set	Hubbell® - HXJ Series
	PA3717	Replacement Punchdown Head-Set	Hubbell® - HXJ Series
	PA8112	Jack Terminator™ with Punchdown Head-Set	Ortronics® - TJ5E00, TJ600, TJ610
	PA3718	Replacement Punchdown Head-Set	Ortronics® - TJ5E00, TJ600, TJ610

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All-in-One UTP Snagless Crimper

PA1561

- Cuts and strips round or flat cable
- All metal construction
- Cushion grips for improved comfort and control
- For standard and "snagless" RJ45 connectors
- Also crimps RJ11/22 and RJ22 WE/SS style plugs

CAT. NO.	DESCRIPTION
PA1561	All-in-One UTP Snagless Crimper

All-in-One Ultra Telephone Tools

PA901014

- 4 crimp functions with a single tool without changing dies
- Crimps 4- position RJ22 handset
- Crimps 4- and 6- position RJ11/RJ12 connectors
- Crimps 8- position RJ45 (non-keyed)
- Embedded cable cutter and stripper
- Crimps 28-24 AWG (.08 - .20 mm2) telephone and data cables
- Advanced ratchet system
- Precision die-cast aluminum head
- Crimps 6- position RJ11-DEC offset type connectors (P/N 901014)

CAT. NO.	DESCRIPTION
PA901014	All-in-One Ultra Telephone Tool AMP (Tyco)
PA901016	All-in-One Ultra Telephone Tool (WE/SS)
R PA2530	Replacement blade kit

All-in-One Pro Telephone Tools

PA1530R

- Crimps 4- position RJ22 connectors
- Crimps 4- and 6- position RJ11/RJ12 connectors
- Crimps 8- position RJ45 (non-keyed) connectors
- Embedded cable cutter and stripper
- Crimps 28-24 AWG (.08 - .20 mm2) telephone and data cables
- Comfortable rubber-embedded handles
- Built-in safety ratchet release

CAT. NO.	DESCRIPTION
PA1540	All-in-One Pro Telephone Tool AMP (Tyco)
PA1530R	All-in-One Pro Telephone Tool (WE/SS)
R PA2530	Replacement blade kit

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Telephone Ratchet Crimper

- Combination tool terminates 8- position, 6- position and 4- position (45575 only) modular style plugs
- No need to change crimping dies
- Full-cycle ratchet mechanism provides consistent, quality terminations every cycle
- Straight action ensures uniform crimp
- Small, compact design
- Built-in wire cutter and stripper for flat cable
- All-steel frame has rust-resistant, black oxide finish

45553
Typically used for Modular Plug Connectors (See below)

CAT. NO.	UPC NO.	DESCRIPTION
45553	45553	Telephone Ratchet Crimper
45575	45575	Telephone Ratchet Crimper

45575
Typically used for Modular Plug Connectors (See below) Our Telephone Ratchet Crimper was designed with a compact head to fit into tight spaces and ergonomic handles for operator comfort.

Modular Plug Connectors

RJ45

RJ45
- RJ45 8-conductor modular plugs
- 50 micron gold plating
- Meets or exceeds EIA/TIA specifications

RJ11
- RJ11 6-conductor modular plugs
- For use with stranded wire
- 50 micron gold plating

WE/SS-STYLE 8P8C CONNECTORS

CONNECTOR TYPE	CABLE TYPE	QUANTITY	CAT. NO.
RJ45	Cat5e, Solid or Stranded Round, Flat or Oval	10/Pack 50/Pack 100/Pack	PA9546 PA9655 PA9549

RJ11

WE/SS-STYLE 6P6C CONNECTORS

	DESCRIPTION		
CONNECTOR TYPE	CABLE TYPE	QUANTITY	CAT. NO.
RJ11	Solid or Stranded Round, Flat or Oval	10/Pack	PA9520

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EK50ML Micro Crimping Tool

NEW PRODUCT

EK50ML138B

Note: EK50ML138 is compatible with all Greenlee Kwik Cycle® and CrimpALL® dies for various types of cables and sizes.

See page 375-377 for the complete line of dies.

- Ergonomic; total weight less than 2.2 lbs
- Crimp 3x faster with 90% less force
- LED work light
- 65% faster crimping cycle vs ratcheting tool.
- 250 crimps per cycle charge when crimping 10AWG wire.
- Patented Jaw Actuation for crimping cycle
- Innovative trigger with PowerSense™ Technology
- Overmolded grip for maximum comfort
- 10.8V Li-Ion battery with charge indicator

SPECIFICATIONS

Weight	2.2 lbs (1 kg)

	CAT. NO.	UPC NO.	DESCRIPTION
N	EK50ML12011	03105	Crimping tool kit with 12mm jaw and 110V charger with carrying case
N	EK50ML13811	03108	Crimping tool kit with 13.8mm jaw and 110V charger with carrying case
N	EK50ML12022	03123	Crimping tool kit with 12mm jaw and 230V charger with carrying case
N	EK50ML13822	03124	Crimping tool kit with 13.8mm jaw and 230V charger with carrying case
N	EK50ML120B	03128	12mm jaw EK50ML bare tool
N	EK50ML138B	03130	13.8mm jaw EK50ML bare tool
R	MBP108	03127	10.8V EK50ML Li-Ion Battery
R	MBC110	03125	10.8V EK50ML Li-Ion Battery Charger, 110V
R	MBC230	03126	10.8V EK50ML Li-Ion Battery Charger, 230V
R	EK50MLCASE	03131	EK50ML Carrying Case

COMPATIBLE DIE SETS

	Wezag®	Panduit®	Thomas & Betts®	Ideal®
EK50ML120	CS30, CS150	CT-2600, CT-300	Sta-Kon®	
EK50ML138				Crimpmaster™

CrimpALL® 8000 Series Crimpers

LIFETIME WARRANTY

PA8000

- Ultra-smooth, fully ratcheting crimp cycle with built-in safety release
- Interchangeable die sets of heat-treated steel for long life
- Soft, rubber-embedded handles
- Long-lasting tool that delivers over 50,000 crimp cycles.
- Rugged, double-plated jaw design to increase life span.
- Lifetime warranty on tool; one-year on die sets
- Angled head to prevent awkward wrist bending during operation
- Reduced handle grip distance makes it easy for both small and large hands
- Higher crimp force produced with less hand force so hand doesn't tire as quickly
- No breakover hand force – the effort required by most crimpers to make the last click at the end of the cycle to complete the crimp – the CrimpALL does the work
- Manufactured using the newest fine blanking technologies.
- EZI-Change™ die screws make changing dies quick and easy – no screwdriver required

	CAT. NO.	DESCRIPTION
	PA8000	CrimpALL® tool frame
R	PA2303	Replacement EZI-Change™ die screws (2)

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1300 Series Crimpers
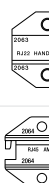
PA1302
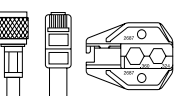
- Fully-ratcheting cycle with built-in safety release
- Interchangeable die sets of heat-treated steel for long life
- Easy to use and maintain
- Available as complete tool with die set inserted or separate tool frame and individual die sets
- Foam-lined case available to hold frame and 6 die sets together.
- Lifetime warranty on tool; one-year on die sets
- EZI-Change™ die screws make changing dies quick and easy – no screwdriver required
- Most precise and tightest tolerances on die sets in the industry
- Six ratchet gear settings for optimum crimp performance

	CAT. NO.	DESCRIPTION
	PA1302	Crimp tool frame
R	PA2303	Replacement EZI-Change™ die screws (2)
R	PA2346	Replacement Spring

CrimpALL® Interchangeable Die Sets for Modular Plugs

	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	CONNECTION	CRIMP SIZES	TOOL WITH DIE	DIE ONLY	REMARKS
	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed WE and SS	PA8030 PA1307	PA2061	Western Electric (WE)/Stewart Connector (SS)
	RJ11 & RJ12 - 6P6C, 6P4C, 6P2C	Flat/Round, Solid/Stranded	RJ11 & RJ12 Unkeyed WE and SS	PA8031 PA1340	PA2062	Western Electric (WE)/Stewart Connector (SS)
	RJ22 Handset - 4P4C (4 Pin)	Flat/Round, Solid/Stranded	4 Pin Handset WE and SS	PA8032	PA2063	Western Electric (WE)/Stewart Connector (SS)
	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed AMP	PA8033 PA1342	PA2064	AMP (Tyco) Inc. Connectors Only
	RJ50 - 10P10C (10 Pin)	Flat/Round, Solid/Stranded	RJ50 Unkeyed WE and SS	PA8036 PA1345	PA2068	Virginia Plastics (VP)
	British Telecom 6 Pole Plug	Flat/Round, Solid/Stranded	BT 6 Pole		PA2032	British Telecom Plugs Only
	RJ45, AMP/Molex Connectors for dia. Cable	6.0mm Dia. Round, Shielded (STP)	RJ45 STP AMP & Molex, 6.0mm dia. cable		PA2674	AMP (Tyco) Inc. & Molex

CrimpALL® Interchangeable Die Sets for Specialty Crimpers
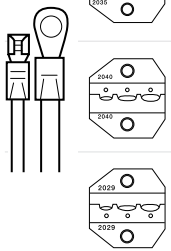
	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	CONNECTION	CRIMP SIZES	TOOL WITH DIE	DIE ONLY	REMARKS
	RJ45 WE/SS & RG6/RG6 Quad CATV "F"	UTP 4-Pair & RG6/RG6 Quad	RJ45 WE/SS 8-pin & 0.360" (9.1mm) HEX/0.324" (8.2mm) HEX	PA8045 PA1387	PA2687	For standard RJ45 WE/SS Modular Plugs & 1-piece RG6/RG6 Quad CATV "F" conns.

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CrimpALL® Interchangeable Die Sets for Coaxial Connectors
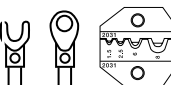
	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	**CONNECTION**	**CRIMP SIZES**	**TOOL WITH DIE**	**DIE ONLY**	**REMARKS**
	RG58, RG59, RG62AU	BNC/TNC and 3 Piece	0.256" (6.5mm, 0.213" (5.4mm), 0.068" (1.7mm) HEX	PA8001 PA1317	PA2034	Common 2-piece and 3-piece BNC/TNC
	RG174, RG59/62, mini-coaxial 75-ohm	HDTV SMA, True 75-ohm BNC/TNC, Mini-UHF	0.255" (6.5mm), 0.197" (5.0mm), 0.178" (4.5mm), 0.068" (1.7mm) HEX & 0.042" (1.0mm) SQ	PA8002 PA1366	PA2648	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
	RG59, RG6, Belden 8281, Belden 1694A	HDTV BNC/TNC/CATV "f" True 75-ohm	0.324" (8.2mm), 0.255" (6.5mm), 0.068" (1.7mm) HEX & 0.052" (1.3mm), 0.042" (1.0mm) SQ	PA8003 PA1367	PA2649	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
	RG6, Belden 1694, Bleden 1694A	HDTV BNC/TNC True 75-ohm	0.278" (7.0mm), 0.275" (6.9mm), 0.068" (1.7mm) HEX & 0.042" (1.0mm) SQ	PA8004 PA1368	PA2657	Common 3-piece BNC/TNC (Kings & ADC HDTV)
	RG58, Mini-59, RG-174, small coaxial	SMA, SMB, Mini-59 BNC/TNC, Mini-UHF	0.128" (3.2mm), 0.213" (5.4mm), 0.197" (5.0mm), 0.178" (4.5mm), 0.068" (1.7mm) HEX & 0.042"(1.0mm) SQ	PA8005 PA1363	PA2653	Common 2-piece and 3-piece SMA/SMB/BNC/TNC & Mini-UHF
	RG58, RG174, AT&T 735, 50 and 75-ohm	Thinnet, BNC/TNC, Mini-UHF	0.213" (5.4mm), 0.178" (4.5mm) 0.068" (1.7mm) HEX & 0.042" (1.0mm) SQ	PA8006 PA1335	PA2046	50/75 ohm small 2-piece & 3-piece BNC/TNC (Kings, ADC, etc.)
	RG59, RG62, Belden 8281, 50 and 75-ohm	BNC/TNC and Mini-UHF	0.315" (8.0mm), 0.252" (6.4mm), 0.068" (1.7mm), HEX 0.042" (1.0mm) SQ	PA8007 PA1336	PA2047	75 ohm 2-piece & 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
	RG174, RG179 and Small Cable Connection	BNC/TNC	0.178" (4.5mm), 0.128" (3.2mm), 0.068" (1.7mm) HEX	PA8008 PA1338	PA2051	Common 2-piece and 3-piece BNC/TNC/SMA/SMB
	RG6 and RG6 Quad, Belden 1694A	BNC and CATV "F" Type & HDTV	0.360" (9.1mm), 0.324" (8.2mm), 0.068" (1.7mm) HEX	PA8012 PA1356	PA2045	Common 2-piece and 3-piece BNC/TNC and CATV "F" 2-piece
	RG59, RG6 Video Cable	CATV "F" Type	0.346" (8.8mm)m 0.319" (8.2mm), 0.256" (6.5mm) HEX	PA8013 PA1328	PA2042	Crimps Ferrules or Sleeves Only
	RG8, RG11, RG213	N-Type	0.429" (10.9mm), 0.100" (2.54mm), 0.080" (2.03mm) HEX	PA8014 PA1365	PA2656	Common 2-piece and 3-piece "N"-Type (Kings, ADC, Amphenol, etc.)
	RG8, RG11, RG213, RG216	N-Type, MS39012 Type	0.415" (10.5mm), 0.095" (2.4mm) HEX	PA8015 PA1319	PA2039	Crimps Pins and Ferrules
	Belden 1855A, 1865A, 1505A, 1505F, 1694A, 1694F, 179DT	HDYV BNC/TNC True 75-ohm	0.178" (4.5mm), 0.255" (6.5mm), 0.278" (7.0mm), 0.068" (1.7mm), 0.041" (1.0) HEX	PA8049 PA1389	PA2699	Kings, ADC, B&L, Trompeter, Amphenol, Switchcraft

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CrimpALL® Interchangeable Die Sets for Insulated Terminal Crimpers

	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	CONNECTION	CRIMP SIZES	TOOL WITH DIE	DIE ONLY	REMARKS
	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-10 AWG (.34 - 6 mm²)	12-10 (Yellow), 16-14 (Blue), 22-18 (Red), (6-4 / 2.5 - 1.5 / .34 - .75 mm²)	PA8021 PA1305	PA2035	For Large Professional Terminals (Panduit, T & B, etc.)
	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-12 AWG (.34 - 4 mm²)	12-10 (Yellow), 16-14 (Blue), 22-18 (Red), (4/1.5 - 2.5 / .34 - .75 mm²)	PA8022 PA1308	PA2040	For Standard Commercial Terminals (Hardware Store Brands)
	Insulated Terminals and Lugs	Solid or Stranded Wire, 26-14 AWG (.10 - 2.5 mm²)	16-14 (Blue), 22-18 (Red), 22-26 (Yellow) (1.5 - 2.5 / .34 - .75 / .34 - .10 mm²)	PA8023 PA1334	PA2029	For Smaller Wire Barrel Terminals

CrimpALL® Interchangeable Die Sets for Non-Insulated Terminal Crimpers

	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	CONNECTION	CRIMP SIZES	TOOL WITH DIE	DIE ONLY	REMARKS
	Non-Insulated Terminals and Lugs	Solid or Stranded Wire, 22-8 AWG (.34 - .10 mm2)	10-8 / 14-12 / 18-16 / 22-20 (6 - 10 / 2.5 - 4 / .75 - 1.5 / .34 - .50 mm2)	PA8024 PA1322	PA2031	For Standard Commercial Terminals

CrimpALL® Interchangeable Die Sets for Open Barrel, Box and Terminal Systems

	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	CONNECTION	CRIMP SIZES	TOOL WITH DIE	DIE ONLY	REMARKS
	Open Barrel Non-Insulated Terminals, Narrow Lugs and Power Contacts	Solid or Stranded Wire, 22-10 AWG (.34 - 6 mm²), F Type*	22-18 / 16-14 / 12-10 (.34 - .75 / 1.5 - 2.5 / 4-6 mm²)	PA8026 PA1306	PA2033	For Standard Commercial Terminals
	Open Barrel Non-Insulated Terminals, Wide Lugs and Power Contacts	Solid or Stranded Wire, 22-14 AWG (.34 - 2.5 mm²), F Type*	16-14 / 22-18 (1.5 - 2.5 / .34 - .75 mm²)	PA8027	PA2096	For Standard Commercial Terminals
	Open Barrel D-Sub Contact Pins RS-232	Solid or Stranded Wire, 28-20 AWG (.08 - .50 mm²), F Type*	28-24 / 22-20 (.08 - .2 / .34 - .5 mm²)	PA8029 PA1359	PA2097	For Standard D-sub Pins Only; not for HD D-subs

CrimpALL® Interchangeable Die Sets for Wire Ferrules

	DESCRIPTION			CAT. NO.	CAT. NO.	
	CABLE TYPE	CONNECTION	CRIMP SIZES	TOOL WITH DIE	DIE ONLY	REMARKS
	Insulated & Non-Insulated Wire Ferruls	Solid or Stranded Wire, 22-10 AWG (.34 - 6 mm2)	22-20 / 18-16 / 14-12 / 10 (.34 - .55 / .75 - 1.5 / 2.5 - 4 / 6 mm2)	PA8025 PA1360	PA2095	For DIN or US Type Wire Ferrules

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D-sub Indent Crimpers

- Adjustable Pin Height Locator
- Cushion Grips for comfort

PA1460

CAT. NO.	DESCRIPTION
PA1460	D-sub 4 Indent Crimper 26-20 AWG
PA1461	D-sub 4 Indent Crimper 20-12 AWG
PA1462	D-sub 8 Indent Crimper 26-20 AWG

Electrical Terminal Crimper

- D-sub Pins & Sockets 26-28 AWG
- Butt-Insulated Connectors 22-26 AWG
- Telephone Piercing Spade Lugs 22-26 AWG
- Open Barrel Connectors 14-18, 20-22 AWG

PA1176

CAT. NO.	DESCRIPTION
PA1176	Multi-Purpose Electrical Terminal Crimper

EDAC/ELCO Crimper

Crimp tool for broadcast professionals terminating loose 28-18 AWG (.08-75 mm^2) EDAC and ELCO rack and panel open barrel contacts

- Crimps EDAC pins 516-290-590 & 516-290-591 along with ELCO pins 000-60-8017-03-13
- Embedded pin locators properly align pins to ensure accurate, reliable crimping
- Fully-ratcheted to prevent under crimping
- Requires low hand force and provides superior crimp force
- True ergonomic design for extreme comfort and performance
- Non-slip, soft rubber handles
- Double-plated for extended long-life and crimping accuracy
- Factory-calibrated and set for precision

PA1670

Pin locators

SPECIFICATIONS

Weight	19 oz. (538 g)

CAT. NO.	DESCRIPTION
PA1670	EDAC/ELCO Crimper

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Open Barrel Contact Pin Crimper

PA1645

Professional crimping tool for open-barrel box and round connector contacts with a wire range of 30-18AWG (0.05-.75 mm2)
- Precision fixed dual-plate dies for crimp accuracy
- Crimps non-insulated terminal lugs, cable lugs and parallel and serial splices or "F-Type"
- Works with Molex, Waldom & Leoco-type connectors
- Durable steel construction for long life
- Rubber-embedded ergonomic handles for low-effort operation

SPECIFICATIONS

Weight	14 oz. (400 g)
Range	Small: 30-24 AWG (0.05-.20 mm2)
	Medium: 22-18 AWG (.34-.75 mm2)

CAT. NO.	DESCRIPTION
PA1645	Open Barrel Contact Pin Crimper

Open Barrel Contact Pin Crimper

PA1631

Professional crimping tool for open-barrel box and round connector contacts with a wire range of 24-14 AWG (0.2-2.5 mm2)
- Precision fixed dual-plate dies for crimp accuracy
- Built-in locator
- Crimps non-insulated terminal lugs, cable lugs and parallel and serial splices or "F-Type"
- Works with Molex, Waldom & Leoco-type connectors
- Durable steel construction for long life
- Rubber-embedded ergonomic handles for low-effort operation

SPECIFICATIONS

Weight	14 oz. (400 g)
Range	Small: 24-22 AWG (0.05-.20 mm2)
	Medium: 18-14 AWG (.34-.75 mm2)

CAT. NO.	DESCRIPTION
PA1631	Open Barrel Contact Pin Crimper

Kwik Cycle® 9" Crimp Frame

- Used to manually crimp a wide variety of connectors and terminals to factory specifications
- 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.
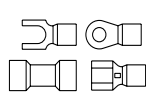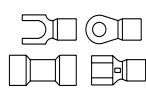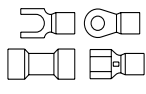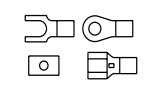
45504
See our comprehensive line of connectors on pages 364 and 373.
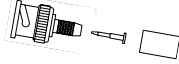
CAT. NO.	UPC NO.	DESCRIPTION
45504	45504	Kwik Cycle 9" Crimp Frame

Kwik Cycle® 9" Interchangeable Die Sets for Insulated & Non-Insulated Terminals

DESCRIPTION			CAT. NO.	UPC NO.	CAT. NO.	UPC NO.
CONNECTION		FEATURES	TOOL WITH DIE		DIE ONLY	
	22-10 AWG	Color Coded nests for easy identification Standard insulated terminals, ring tongue, spade lug, slide on and but splices	45500	45500	45509	45509
	22-10 AWG	Color Coded nests for easy identification for fully insulated slide-on style connectors AMP Ultrafast™ style	45501	45501	45570	45570
	26-16 AWG	For mini insulated terminals with smaller wire barrels. RIng tongue, spade, slide on and butt splices			45565	45565
	22-8 AWG	For non-insulated terminals and splices	45505	45505	45507	45507

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Heat Gun

PA1873

- Electronic variable heat control ranging from 250-1100º F (120-590º C)
- Two speeds: high & low
- Double insulation safeguards injury from possible electrical failure inside gun
- Comfortable, lightweight design reduces operator fatigue
- Three nozzles included: window nozzle, deflection nozzle and .47" (12 mm) focusing nozzle
- UL listed

SPECIFICATIONS

Power reqs.	120VAC 60 Hz
Current draw	7.5 amps max.
Power cons.	1200 watts max.

CAT. NO.	DESCRIPTION
PA1873	Heat gun

Desoldering Tools
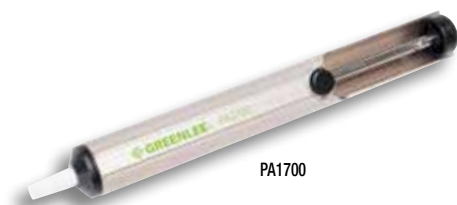
- Removes solder with simple push-button operation
- Standard (regular & anti-static) replacement tips available
- Repair kits come complete with replacement spring and suction rods
- Durable metal frame

PA1700

CAT. NO.	DESCRIPTION: DESOLDERING TOOLS
PA1700	Desoldering tool (standard)
R PA2712	Standard replacement tip

Cable Tie Gun

PA1828-1

- For use with plastic cable ties up to 0.25" (6.35 mm) in width
- Neatly fastens and cuts in one action
- Adjustable tension for changing cable bundle pressure
- Automatic cable tie cut off

CAT. NO.	DESCRIPTION
PA1828-1	Cable tie gun

Note: Leaves 1 mm tab of lock after cut is made.

Kwik Cycle® Cable Tie Guns

45306

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

CAT. NO.	UPC NO.	DESCRIPTION
45306	45306	Standard Cable Tie Gun
45300	45300	Heavy-Duty Cable Tie Gun

HDMI TOOLS

HDMI®* HDFT™ Cable Prep Tool

- Use with Greenlee® 24 AWG HDFT™ cable & connectors
- Cuts 24 AWG HDFT™ cables, strips outer jacket and twisted pair shielding
- Curved blade for cutting HDMI®* and HDFT™ cables
- Precision stripping cavity for removing outer jacket on 24 AWG HDFT™ cables
- Exclusive cavity for removing twisted pair shielding on 24 AWG HDFT™ cables

PA1192

CAT NO.	UPC NO.	DESCRIPTION
PA1192	00072	Cable Prep Tool

24 AWG HDMI®* Field Terminating Cable

- Use with Greenlee® HDFT™ Connectors
- Make premium HDMI®* High Speed with Ethernet cables
- Supports HDMI®* 1.4 features: 3D, Ethernet and Audio Return
- 100' 24 AWG HDFT™ cable
- Solid-core long grain copper
- Fifth twisted pair for Ethernet and audio return
- Other HDMI®* 1.4** features supported: 10.2 Gbps Data Rate, 3D Video Formats, Deep Color and 4k x 2k Resolution

FTHD24-100

CAT NO.	UPC NO.	DESCRIPTION
FTHD24-100	00079	100' 24 AWG Field Terminating Cable

HDMI®* Field Terminating Connectors

- Make custom length, premium HDMI®* cables
- Eliminates cable clutter
- Costs less than pre-terminated cables
- 10 or 50 pack – 24 AWG HDFT™ Connector Components
- Use With Greenlee® 24 AWG HDMI®* Field Terminating Cable only
- Includes main connector terminal block and wire guides
- Guides are mated and colorcoded for 24 AWG HDMI®* Field Terminating cable
- Make custom length, premium HDMI®* High Speed with Ethernet cables

HDCN24-10

CAT NO.	UPC NO.	DESCRIPTION
HDCN24-10	00073	Field Terminating Connectors (10 Pack)
HDCN24-50	00074	Field Terminating Connectors (50 Pack)

HDMI Equivalent
HDMI® Registered trademark of HDMI Licensing, LLC*
HDFT™ Trademark owned by the Quest Group

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HDFT™ Pro Deluxe Kit

PA4017

- Make custom length, premium HDMI®* cables
- Eliminates cable clutter
- Costs less than pre-terminated cables

14 Piece Kit Includes:
1) PA1192 HDMI®* HDFT™ Cable Prep Tool
(1) PA8700 HDMI®* HDFT™ Termination Tool
(10) HDCN24-10 HDMI®* Field Terminating Connectors
(1) PA1175 Media Cable Cutter
(1) TC-30 Deluxe Carrying Case

CAT NO.	UPC NO.	DESCRIPTION
PA4017	00099	Pro Deluxe Kit

HDFT™ Pro Kit

12 Piece Kit Includes:
(1) PA1192 HDMI®* HDFT™ Cable Prep Tool
(1) PA8700 HDMI®* HDFT™ Termination Tool
(10) HDCN24-10 HDMI®* Field Terminating Connectors

CAT NO.	UPC NO.	DESCRIPTION
PA4019	00101	Pro Kit

PA4019

Pro HDMI® Cable Tester

PA1599

- 14 LED readout for easy checking
- Sweep function checks for crossed wires
- 9V battery included

CAT NO.	UPC NO.	DESCRIPTION
PA1599	00075	Pro Cable Tester

HDFT™ Die Set

PA4003

- Precision cast 4140 steel for durability
- High tensile steel cutting blades for long life
- Error-proof design avoids misalignment

CAT NO.	UPC NO.	DESCRIPTION
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