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

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DataScout™ 10G

**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

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Display &amp; Input</th>
<th>7&quot; WVGA LCD touch screen 800x600 resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Varies by configuration)</td>
<td>0.91 kg (2.0 lbs) minimum 1.36 kg (3.0 lbs) maximum</td>
</tr>
<tr>
<td>Dimensions</td>
<td>10 x 6.5 x 2.2 inches (WxHxD) 254 x 165 x 56 millimeters (WxHxD)</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL**

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

**CONFIGURATION OPTIONS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>M DS10G-HW-B1</td>
<td>Base Controller Without Datacom Interface</td>
</tr>
<tr>
<td>N DS10G-HW-B2</td>
<td>Base Controller With Datacom Interface</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TABLET CONTROLLER</th>
<th>Wi-Fi®</th>
</tr>
</thead>
<tbody>
<tr>
<td>N DS10-HW-WIFI</td>
<td>Dual 10/100/1000T/X &amp; 10G Ethernet</td>
</tr>
<tr>
<td>N DS10-HW-ETH</td>
<td>Dual DS1</td>
</tr>
<tr>
<td>N DS10-HW-PDH1</td>
<td>Dual DS1</td>
</tr>
<tr>
<td>N DS10-HW-PDH2</td>
<td>DS3 &amp; Dual DS1</td>
</tr>
<tr>
<td>N DS10-HW-P</td>
<td>ISDN-PRI</td>
</tr>
<tr>
<td>N DS10-HW-DDS</td>
<td>Digital Data Services (DOS)</td>
</tr>
<tr>
<td>N DS10-HW-T</td>
<td>Transmission Impairment Measurement System (TIMS)</td>
</tr>
</tbody>
</table>

**SOFTWARE OPTIONS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETHERNET TEST OPTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>DS10G-SW-201</td>
<td>Adds dual port 1Gb Ethernet testing</td>
</tr>
<tr>
<td>DS10G-SW-110</td>
<td>Activates single 10G test interface</td>
</tr>
<tr>
<td>DS10G-SW-210</td>
<td>Adds dual port 10Gb Ethernet testing</td>
</tr>
<tr>
<td><strong>DS1 TEST OPTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>DST-SW-DT1</td>
<td>Adds dual port T1 testing</td>
</tr>
<tr>
<td>DST-SW-N1</td>
<td>Adds T1 CSU/NIU emulation</td>
</tr>
<tr>
<td>DST-SW-V</td>
<td>Adds DS0 voice analysis</td>
</tr>
<tr>
<td>DST-SW-E</td>
<td>Adds Euro/Asian ISDN-PRI support</td>
</tr>
<tr>
<td>DST-SW-X</td>
<td>Adds DS0 drop, insert &amp; bypass</td>
</tr>
<tr>
<td>DST-SW-DCOM</td>
<td>Adds DATACOM DTE/DCE interface testing</td>
</tr>
<tr>
<td>DST-SW-E1</td>
<td>Adds E1/T1 On-The-Fly testing</td>
</tr>
<tr>
<td><strong>DS3 TEST OPTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>DST-SW-H3</td>
<td>Adds DS3 thru-mode testing</td>
</tr>
<tr>
<td>DST-SW-D1D</td>
<td>Adds DS1 drop from DS3 signal</td>
</tr>
<tr>
<td>DST-SW-NX</td>
<td>Adds DS3 CSU/NIU emulation</td>
</tr>
<tr>
<td><strong>TIMS TEST OPTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>DST-SW-PR04</td>
<td>Adds 4-button frequency program</td>
</tr>
<tr>
<td>DST-SW-4</td>
<td>Adds 4-WIRE 100/1350 testing</td>
</tr>
<tr>
<td>DST-SW-EM</td>
<td>Adds E&amp;M TYPE I-V signaling, trunk, PBX and Tie Line testing</td>
</tr>
<tr>
<td>DST-SW-DG</td>
<td>Adds measurement of dropouts, hits, amplitude, and phase jitter</td>
</tr>
<tr>
<td>DST-SW-TON</td>
<td>Adds transmit of warble ID tone</td>
</tr>
</tbody>
</table>

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

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

SIGNALLING (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
MULTI-NETWORK TEST ANALYZERS

DataScout™ 1G

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

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

ENVIRONMENTAL

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

SOFTWARE OPTIONS

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

CONFIGURATION OPTIONS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS1G-BAS</td>
<td>Ethernet Analyzer</td>
</tr>
<tr>
<td>DS1G-PDH1</td>
<td>DS1 analyzer (T1 or E1)</td>
</tr>
<tr>
<td>DS1G-PDH2</td>
<td>DS1/DS3 analyzer (T3/T1 or E3/E1)</td>
</tr>
</tbody>
</table>

SOFTWARE OPTIONS

<table>
<thead>
<tr>
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<td>Adds multiple stream Ethernet and Y.1564 tests</td>
</tr>
<tr>
<td>DS1G-SW-WIFI</td>
<td>Adds Wi-Fi® analysis</td>
</tr>
<tr>
<td>DS1G-SW-VOIP</td>
<td>Adds VoIP analysis</td>
</tr>
<tr>
<td>DS1G-SW-IPTV</td>
<td>Adds IPTV analysis</td>
</tr>
<tr>
<td>DS1G-SW-E1</td>
<td>Adds E1 to T1 analyzer</td>
</tr>
<tr>
<td>DS1G-SW-T1</td>
<td>Adds T1 to E1 analyzer</td>
</tr>
<tr>
<td>DS1G-SW-DCOM</td>
<td>Adds DATACOM testing</td>
</tr>
<tr>
<td>DS1G-SW-CODIR</td>
<td>Adds Co-Directional testing</td>
</tr>
<tr>
<td>DS1G-SW-E3</td>
<td>Adds E3 testing to T3 analyzer</td>
</tr>
<tr>
<td>DS1G-SW-T3</td>
<td>Adds T3 testing to E3 analyzer</td>
</tr>
<tr>
<td>DS1G-SW-C37</td>
<td>IEEE C37.94 Teleprotection analysis</td>
</tr>
</tbody>
</table>
Wireless Test Solution

AirScout™

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Two Client Solution in Carry Case</td>
</tr>
<tr>
<td>M</td>
<td>Six Client Solution in Carry Case</td>
</tr>
<tr>
<td>A</td>
<td>Individual Master Controller</td>
</tr>
<tr>
<td>A</td>
<td>Individual Client</td>
</tr>
</tbody>
</table>

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 °C / 0 to +131 °F
- Storage Temperature: -20 to +65 °C / -4 to +149 °F
- Operating Humidity: 20-80% RH non condensing
- Storage Humidity: 10-90% RH non condensing

Compliance
- FCC
- Canada Regulatory Requirements (ICES-003)
- CE Compliance

Wi-Fi® is a registered trademark of the Wi-Fi Alliance.
CABLE MAINTENANCE TEST SET
Sidekick® Plus Copper and DSL Test Set

- 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 DSL 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1155-5001</td>
<td>01316</td>
<td>Sidekick Plus Kit LCC</td>
</tr>
<tr>
<td>1155-5003</td>
<td>01324</td>
<td>Sidekick Plus Kit SCC</td>
</tr>
<tr>
<td>1155-5005</td>
<td>01463</td>
<td>Kit, Sk Plus, Impulse Noise, Step TDR</td>
</tr>
<tr>
<td>1155-5009</td>
<td>01317</td>
<td>Sidekick Plus With Wideband</td>
</tr>
<tr>
<td>1155-5010</td>
<td>01318</td>
<td>Sidekick Plus With Wideband &amp; Adsl/Vdsl Sync LCC</td>
</tr>
<tr>
<td>1155-5011</td>
<td>02275</td>
<td>Sidekick Plus With Wideband &amp; Adsl/Vdsl Sync SCC</td>
</tr>
<tr>
<td>1155-5012</td>
<td>04197</td>
<td>Sidekick Plus Pair Bonded Modem - Fully Featured</td>
</tr>
<tr>
<td>1155-5013</td>
<td>03838</td>
<td>Sidekick Plus Pair Bonded Modem - Fully Featured SCC</td>
</tr>
</tbody>
</table>
Sidekick® Plus ADSL Far-End-Device

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

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**CAT. NO.** | **UPC NO.** | **DESCRIPTION**
---|---|---
1157-5001 | 03958 | Sidekick® FED Kit
Sidekick® T&ND

- 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 setup 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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>1144-5000</td>
<td>60853</td>
<td>Sidekick T&amp;ND Test Set</td>
</tr>
<tr>
<td>1134-1002S</td>
<td>60752</td>
<td>Case</td>
</tr>
</tbody>
</table>

**Sidekick® T&N**

- 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 tests
- Minimal drying effect in all ranges
- Field replaceable leads
- Softcase with adjustable strand hook
- Low battery indicator light

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1137-5002</td>
<td>60526</td>
<td>Sidekick T&amp;N</td>
</tr>
<tr>
<td>1134-1002S</td>
<td>60752</td>
<td>Case</td>
</tr>
<tr>
<td>1131-0202</td>
<td>60751</td>
<td>Test Leads</td>
</tr>
</tbody>
</table>
Sidekick® 7B

- 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**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>10.75” x 4.25” x 2.5”</td>
</tr>
<tr>
<td>Weight</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>Resistance Rx1</td>
<td>Reads 0 to 2000 Ω</td>
</tr>
<tr>
<td>Leakage Rx10K</td>
<td>Reads 0 to 20 MΩ</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>0 to 100 Volts DC</td>
</tr>
<tr>
<td>AC Voltage</td>
<td>0 to 200 Vrms</td>
</tr>
<tr>
<td>Stress Test</td>
<td>0 to 82 dBmC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1134-5029</td>
<td>60525</td>
<td>Sidekick 7B</td>
</tr>
<tr>
<td>1134-1002S</td>
<td>60752</td>
<td>Case</td>
</tr>
<tr>
<td>1131-0202</td>
<td>60751</td>
<td>Test Leads</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>10.75 x 4.25 x 2.5 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>Resistance Rx1</td>
<td>Reads 0 to 2000 Ω</td>
</tr>
<tr>
<td>Leakage Rx10K</td>
<td>Reads 0 to 20 Megohms</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>0 to 100 Volts DC</td>
</tr>
<tr>
<td>AC Voltage</td>
<td>0 to 200 Vrms</td>
</tr>
<tr>
<td>Stress Test</td>
<td>0 to 82 dBmC</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-4°F to +140°F</td>
</tr>
<tr>
<td>Power</td>
<td>Four AA batteries</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1143-5000</td>
<td>60527</td>
<td>Sidekick V.O.C.</td>
</tr>
<tr>
<td>1134-1002S</td>
<td>60752</td>
<td>Case</td>
</tr>
</tbody>
</table>
CABLE & SERVICE TESTING

TM-700 Tele-Mate™ Telephone Test Set

- 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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-700</td>
<td>00984</td>
<td>TM-700 Tele-Mate™ TELEPHONE TEST SET</td>
<td>1</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

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

TM-500 Tele-Mate™ Telephone Test Set

- 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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-500</td>
<td>00486</td>
<td>Telephone Test Set W/ ABN “Bed-Of-Nails” Croc Clips (POD)</td>
<td>1</td>
</tr>
<tr>
<td>TM-500T</td>
<td>00494</td>
<td>Telephone Test Set W/ ABN “Bed-Of-Nails” Croc Clips (Boxed)</td>
<td>1</td>
</tr>
<tr>
<td>TM-500i</td>
<td>00643</td>
<td>Telephone Test Set W/ Small Croc Clips (Boxed)</td>
<td>1</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Technical Specifications
- Length: 9.25” (235 mm)
- Width: 2.5” (64 mm)
- Height: 3.25” (83 mm)
Nautilus Range Telephone Test Sets

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE930</td>
<td>60487</td>
<td>Telephone Test Set</td>
</tr>
<tr>
<td>PE945</td>
<td>60489</td>
<td>Test Set with Two-Way Hands Free</td>
</tr>
<tr>
<td>PE961</td>
<td>60511</td>
<td>Test Set with Two-Way Hands Free and DigAlert</td>
</tr>
<tr>
<td>A</td>
<td>PE901</td>
<td>Ground Start Cord Set</td>
</tr>
<tr>
<td>R</td>
<td>PE902</td>
<td>Cord Set</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>PE930</th>
<th>PE945</th>
<th>PE961</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor safe for data</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Adjustable Ringer</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Waterproof Design</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Loud Speaker Listening</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Two-Way Hands Free</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>DigAlert™ Data Lock-out</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>ADSL Compatible</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
ToneRanger

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>10101-50000</td>
<td>12734</td>
<td>TF1A Kit, ToneRanger Aerial</td>
</tr>
<tr>
<td>10101-51000</td>
<td>20206</td>
<td>TF1ABL Kit, ToneRanger Aerial and Buried</td>
</tr>
<tr>
<td>10101-51100</td>
<td>20202</td>
<td>TF1AP Kit, ToneRanger Aerial with Pair ID</td>
</tr>
<tr>
<td>10101-51200</td>
<td>12733</td>
<td>TF1AB Kit, ToneRanger Aerial with Buried Wand</td>
</tr>
<tr>
<td>10101-51300</td>
<td>12732</td>
<td>TF1AL Kit, ToneRanger Aerial with Layup Stick</td>
</tr>
<tr>
<td>10101-51400</td>
<td>52019</td>
<td>TF1ALBP Kit, ToneRanger with Aerial, Buried &amp; Pair ID</td>
</tr>
<tr>
<td>52042471</td>
<td>–</td>
<td>Transmitter Test Cable</td>
</tr>
</tbody>
</table>

Throwmaster® Paragon

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0529-0001</td>
<td>52901</td>
<td>Throwmaster® Paragon 519 Kit</td>
</tr>
</tbody>
</table>
1155 Fault Loop Simulator

• 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1155-7001</td>
<td>57691</td>
<td>Test Set</td>
</tr>
</tbody>
</table>

4-6-8 Modular Adapters

• 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1902</td>
<td>RJ45 Modular Adapter (8-way)</td>
</tr>
<tr>
<td>PA1903</td>
<td>RJ11 Modular Adapter (6-way)</td>
</tr>
</tbody>
</table>
**TurTEL® Modular Adapters/Polarity Tester**

- 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

**TelScout® TS90**

- 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**

**TurTEL® Modular Adapter**

- CAT. NO. 46050
- UPC NO. 46050
- DESCRIPTION TelScout, International TS90

**SPECIFICATIONS**

**Physical Dimensions**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS90INTL</td>
<td>26345</td>
<td>Telescout, International TS90</td>
</tr>
<tr>
<td>012154500</td>
<td>60740</td>
<td>Leads</td>
</tr>
<tr>
<td>THMSBAT</td>
<td>60756</td>
<td>Rechargeable Battery Pack</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>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.</td>
</tr>
<tr>
<td>Power</td>
<td>Battery Operation – Battery Type: Six AA Alkaline. Operating Time: &gt;4.5 hrs. with backlight off. Battery Saver: Selectable for 5 to 30 minutes or disabled.</td>
</tr>
</tbody>
</table>
CableScout™ TV220 - TDR Cable Tester for CATV

- 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

### 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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Centimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>24</td>
<td>9.5</td>
</tr>
<tr>
<td>Width</td>
<td>30</td>
<td>11.5</td>
</tr>
<tr>
<td>Depth</td>
<td>9</td>
<td>3.5</td>
</tr>
<tr>
<td>Weight</td>
<td>Kilograms</td>
<td>Pounds</td>
</tr>
<tr>
<td>Net</td>
<td>3</td>
<td>6.4</td>
</tr>
</tbody>
</table>
CableScout™ 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

### 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

### Table: CableScout™ TV90 Accessories
<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV90US</td>
<td>12600</td>
<td>TV90 CableScout™ TDR</td>
</tr>
<tr>
<td>THMSBAT</td>
<td>60756</td>
<td>Rechargeable Battery Pack</td>
</tr>
<tr>
<td>THMSAC</td>
<td>21729</td>
<td>AC Adapter 110V</td>
</tr>
<tr>
<td>TS90-0350</td>
<td>21739</td>
<td>Soft Carrying Case</td>
</tr>
</tbody>
</table>
WIRE & CABLE IDENTIFICATION

Classic 77 Series Tone Generators

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.

### FEATURES / SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>77HP-G</th>
<th>77HP-G/6A</th>
<th>77M-G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selectable Warble Tone</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Continuity Testing</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Polarity Testing</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Talk Battery Supply</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Two-line Modular Test Lead (RJ-11)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Three-color LED (identifies AC ring voltage)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Weather-Resistant Design</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Bent Nose Clips with Bed-of-Nails Penetrator</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>RJ11 &amp; RJ45 socket</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Lanyard</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Battery Operated (9V not included)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

### Classic 77 Series Tone Generators

- **77HP-G/6A**: Same features as 77HP-G.
- **77M-G**: Same features as 77HP-G.

### Replacement Piercing Clips

- 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.

### Replacement Piercing Clips

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPC</td>
<td>08710</td>
<td>Piercing Clips</td>
</tr>
</tbody>
</table>
Station Master Pro

- 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**

<table>
<thead>
<tr>
<th>Minimum Voltage for Clock LED</th>
<th>15 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>(LED intensity increases as voltage increases)</td>
<td></td>
</tr>
<tr>
<td>Minimum Battery while Testing</td>
<td>10.5 VDC</td>
</tr>
<tr>
<td>Maximum Input Voltage between Test Leads</td>
<td>28 VAC</td>
</tr>
<tr>
<td>Solenoid Circuit Recharge Time</td>
<td>2.5 seconds</td>
</tr>
<tr>
<td>Maximum Distance Range to Activate one Solenoid</td>
<td></td>
</tr>
<tr>
<td>12 AWG Loop 3000-13000 feet</td>
<td></td>
</tr>
<tr>
<td>14 AWG Loop 2000-8500 feet</td>
<td></td>
</tr>
<tr>
<td>18 AWG Loop 500-3000 feet</td>
<td></td>
</tr>
</tbody>
</table>

**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

- 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 VAC
- 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
Professional GX Series Tone Generators

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>77GX</td>
<td>60556</td>
<td>77GX Tone Generator</td>
</tr>
<tr>
<td>77GX2</td>
<td>60560</td>
<td>77GX2 Tone Generator</td>
</tr>
</tbody>
</table>

Note: Not for use on energized AC wiring

AdapToner Modular Breakout Tone Generator

- 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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT8</td>
<td>08693</td>
<td>AdapToner Modular Breakout Tone Generator</td>
</tr>
</tbody>
</table>

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
- Detects 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

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
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).

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE620</td>
<td>08665</td>
<td>Alarm Loop Verifier/Tone Generator</td>
</tr>
</tbody>
</table>

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.

- 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: 577982 Hz alternating
- Output Impedence: 3,500 ohms minimum, 25kHz to 1.1 MHz

**Mechanical**
- Length: 5.5" (140 mm)
- Width: 2.25" (57 mm)
- Depth: 1.0" (25 mm)
- Weight: 0.38 lbs (0.17 kg)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE7780</td>
<td>60777</td>
<td>Data Mate™ Tone Generator</td>
</tr>
</tbody>
</table>

Note: Not for use on energized AC wiring.
Tone Probes Selection Guide

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

Tough & Water Resistant Multi-Filter Tone Probe

- 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 acoustically 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>500XP</td>
<td>01125</td>
<td>500XP Pair Tracing Probe (POS)</td>
</tr>
<tr>
<td>500XPB</td>
<td>01085</td>
<td>500XP Pair Tracing Probe (Boxed)</td>
</tr>
<tr>
<td>HS001</td>
<td>01126</td>
<td>Replacement Headset</td>
</tr>
<tr>
<td>500XPH</td>
<td>02642</td>
<td>500XP Pair Tracing Probe Holster</td>
</tr>
</tbody>
</table>

Tone Probe Amplifiers

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>200B-G</td>
<td>49986</td>
<td>Tone Probe, Basic</td>
</tr>
<tr>
<td>200GX</td>
<td>60557</td>
<td>Tone Probe, Standard</td>
</tr>
<tr>
<td>200EP-G</td>
<td>49987</td>
<td>Tone Probe, Standard, with Headset Jack &amp; Flashlight</td>
</tr>
<tr>
<td>200C</td>
<td>60670</td>
<td>Leather Belt Holster for 200 Series Tone Probe Amplifiers</td>
</tr>
</tbody>
</table>
Filter Tone Probe

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>200FP</td>
<td>08672</td>
<td>Filter Tone Probe (60Hz mains)</td>
</tr>
<tr>
<td>200FP50</td>
<td>60467</td>
<td>Filter Tone Probe (50Hz mains)</td>
</tr>
</tbody>
</table>

Multi-Filter Tone Probe

- 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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>200XP</td>
<td>60887</td>
<td>Multi-Filter Tone Probe (60Hz mains, 577Hz narrowband)</td>
</tr>
<tr>
<td>200XP50</td>
<td>60888</td>
<td>Multi-Filter Tone Probe (50Hz mains, 983Hz narrowband)</td>
</tr>
</tbody>
</table>

Replacement Plastic Tips for 200 Series Probes

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT-1</td>
<td>08711</td>
<td>Plastic Tips for 200B, 200EP, 200FP and 200XP</td>
</tr>
<tr>
<td>RPT-2</td>
<td>60561</td>
<td>Plastic Tips for 200GX</td>
</tr>
</tbody>
</table>

Replacement Metal Tips for 200B and 200EP Probes

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMT-1</td>
<td>08709</td>
<td>Metal Tips for 200B and 200EP Probes</td>
</tr>
</tbody>
</table>
**Precision Tone Generator**

- 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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>177</td>
<td>08857</td>
<td>Precision Tone Generator</td>
</tr>
</tbody>
</table>

**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**

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0134-0500</td>
<td>60764</td>
<td>T-Bug® Digital Signal Identifier</td>
</tr>
</tbody>
</table>
Classic Tone and Probe Kits

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>601K-G</td>
<td>49989</td>
<td>Classic Tone and Probe Kit, Basic</td>
</tr>
<tr>
<td>701K-G</td>
<td>49990</td>
<td>Classic Tone and Probe Kit, Standard</td>
</tr>
<tr>
<td>701K-G/6A</td>
<td>35775</td>
<td>Classic Tone and Probe Kit, Standard with ABN clips</td>
</tr>
</tbody>
</table>

Premium Tone and Probe Kit

- 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).

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>801K</td>
<td>08690</td>
<td>Premium Tone and Probe Kit</td>
</tr>
<tr>
<td>801K/50</td>
<td>60466</td>
<td>Premium Tone and Probe Kit (50Hz)</td>
</tr>
</tbody>
</table>

Xpert Tone and Probe Kit

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>811K</td>
<td>36001</td>
<td>Tone and Probe Kit, Xpert</td>
</tr>
<tr>
<td>811K/6A-BOX</td>
<td>26375</td>
<td>Tone and Probe Kit, Xpert with ABN clips</td>
</tr>
</tbody>
</table>

AdapToner Kit

- 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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT8K</td>
<td>08694</td>
<td>AdapToner Kit</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>802K</td>
<td>36000</td>
<td>Digital LAN Tracing Kit</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT8LK</td>
<td>60584</td>
<td>LAN Toner Kit</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>802K</td>
<td>08677</td>
<td>CATV Cable Tone Test Set</td>
</tr>
<tr>
<td>402T</td>
<td>60376</td>
<td>Transmitter</td>
</tr>
<tr>
<td>402R</td>
<td>60377</td>
<td>Receiver</td>
</tr>
<tr>
<td>CS9</td>
<td>60374</td>
<td>Male to male F-connector adapter cable</td>
</tr>
<tr>
<td>CS19</td>
<td>60378</td>
<td>F-connector to alligator clip</td>
</tr>
</tbody>
</table>
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).

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>620K</td>
<td>08682</td>
<td>Security and Alarm Kit</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1573</td>
<td>Tone &amp; Probe Plus Cable-Check™ Kit</td>
</tr>
</tbody>
</table>
Cabling Pouch

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>750C</td>
<td>08685</td>
<td>Cabling Pouch</td>
</tr>
</tbody>
</table>

Tone and Probe Carrying Case

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>700C</td>
<td>08683</td>
<td>Tone and Probe Carrying Case</td>
</tr>
</tbody>
</table>
STRUCTURED WIRING TESTERS

NETcat® Pro 2 NC-500

- 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

<table>
<thead>
<tr>
<th>Dimension</th>
<th>3.3&quot; x 1.4&quot; x 6.7&quot; (8.5 cm x 3.5 cm x 17 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.45 lb. (200 g)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>9V Alkaline battery (PP3)</td>
</tr>
<tr>
<td>User Interface</td>
<td>Dot Pixels: 128 x 128 dots</td>
</tr>
<tr>
<td>Viewing Area</td>
<td>60.0 x 58.4</td>
</tr>
<tr>
<td>Backlight</td>
<td>White LED</td>
</tr>
<tr>
<td>Buttons</td>
<td>LCD touch-screen, Single momentary contact push button</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C to 50°C</td>
</tr>
<tr>
<td>Storage</td>
<td>-20°C to 70°C</td>
</tr>
<tr>
<td>Interface</td>
<td>RJ45 shielded jacks</td>
</tr>
<tr>
<td>Connections</td>
<td>F-type threaded female coaxial connectors</td>
</tr>
<tr>
<td>TDR Calibration</td>
<td>40% to 100% in steps of 1%</td>
</tr>
<tr>
<td>TDR Range</td>
<td>0 to 2000 ft. -</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 ft. (0.3 m)</td>
</tr>
<tr>
<td>Accuracy to Open/Short</td>
<td>±4% or 2 ft. (0.6 m) whichever is greater</td>
</tr>
<tr>
<td>Wiremap</td>
<td>358 ft (100 meters) maximum distance</td>
</tr>
</tbody>
</table>

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

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
NETcat® Micro 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. |

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC-100</td>
<td>23636</td>
<td>NETcat® Micro Digital Voice Data and Video Wiring Tester</td>
</tr>
</tbody>
</table>
LAN ProNavigator® Tester & Remote

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1543</td>
<td>LAN ProNavigator® test set (main &amp; remote), 2 RJ45 patch cords, 2 belt clips, 12 oz. (342 g)</td>
</tr>
<tr>
<td>PA901066</td>
<td>LAN ProNavigator® test set (main &amp; 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</td>
</tr>
<tr>
<td>PA901074</td>
<td>Adapter, CATV “F” (female) to BNC (male)</td>
</tr>
</tbody>
</table>

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

### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>MAIN</th>
<th>REMOTE</th>
<th>KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>8 oz. (228 g)</td>
<td>2 oz. (57 g)</td>
<td>2 oz. (1140 g)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>5.25&quot; x 6.75&quot; x 2.25&quot;</td>
<td>3.45&quot; x 1.6&quot; x 0.9&quot;</td>
<td>8.5&quot; x 7.6&quot; x 3&quot;</td>
</tr>
<tr>
<td></td>
<td>133 mm x 171 mm x 57 mm</td>
<td>87 mm x 41 mm x 24 mm</td>
<td>216 mm x 193 mm x 76 mm</td>
</tr>
</tbody>
</table>
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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>468</td>
<td>08661</td>
<td>Wiremap Tester</td>
</tr>
<tr>
<td>468C</td>
<td>60382</td>
<td>Carrying Case for the Wiremap Tester</td>
</tr>
<tr>
<td>468T</td>
<td>60379</td>
<td>Transmitter</td>
</tr>
<tr>
<td>468R</td>
<td>60380</td>
<td>Receiver</td>
</tr>
<tr>
<td>CSIO</td>
<td>60381</td>
<td>Modular Adapter Cable</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1576</td>
<td>Data/Link ID and Cable-Check™</td>
</tr>
</tbody>
</table>
**PC Cable-Check™ PRO**

- 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.**  PA1577  **DESCRIPTION**  PC Cable-Check™ Pro
**Buried Facility Location and Marking**

**Tracker II**

- 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.

**SPECIFICATIONS**

**Transmitter**
- Operating Voltage: 0-600VAC, 0-300VDC
- Current: 15mA (open line), 150mA (live or shorted line)
- Frequency: 33.3kHz
- Operating Temperature: 0°F to 120°F (-17°C to 50°C)
- Size: 7.5" x 4" x 2.1" (190.5 mm x 101.6 mm x 53 mm)
- Power: 6VDC (4 AA batteries)
- Weight: 15 oz (425 g)

**Receiver**
- Depth Range: Measured: 0-15 ft
- Depth Resolution: 0.1 ft increments
- Passive Trace Frequency: 12Hz-24kHz
- Operating Temperature: 0°F to 120°F (-17°C to 50°C)
- Size: 4.1" x 8.5" x 3" (104.1 mm x 215.9 mm x 76.2 mm)
- Power: 6VDC (4 AA batteries)
- Weight: 1 lb. 12 oz. (794 g)

**CAT. NO.**
- 501
- 501T
- 501R
- IC1
- CS16
- 500CA

**UPC NO.**
- 08662
- 60353
- 60352
- 60354
- 60355
- 60351

**DESCRIPTION**
- Tracker II
- Transmitter
- Receiver
- Inductive Clamp
- Transmitter Cord Set
- Case with Antenna

---

**Buried Line Locator**

- 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.

**SPECIFICATIONS**

**Transmitter**
- Operating Voltage: 0-600VAC, 0-300VDC
- Current: 13mA (open line), 150mA (live or shorted line)
- Frequency: 33.3kHz
- Operating Temperature: 0°F to 120°F (-17°C to 50°C)
- Size: 7.5" x 4" x 2.1" (190.5 mm x 101.6 mm x 53 mm)
- Power: 6VDC (4 AA batteries)
- Weight: 15 oz (425 g) (with batteries and clamp)

**Receiver**
- Depth Range: Measures: 0-15 ft
- Depth Resolution: 0.1 ft increments
- Passive Trace Frequency: 12Hz-24kHz
- Operating Temperature: 0°F to 120°F (-17°C to 50°C)
- Size: 4.1" x 8.5" x 3" (104.1 mm x 215.9 mm x 96.5 mm)
- Power: 6VDC (4 AA batteries)
- Weight: 1 lb. 12 oz. (794 g)
Pulser Fault Locator

- 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 | Transmitter – aluminum housing in polyethylene case  
| Construction       | 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 |

Wire Finder/Mini Locator

- 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) |
Wire and Valve Locator

- 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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Power Requirements</th>
<th>Transmitter: (8) “D” Cell; Receiver: (1) 9V battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Life</td>
<td>Transmitter: 50 hours nominal; Receiver: 100 hours nominal</td>
</tr>
<tr>
<td>Transmitter Power</td>
<td>750Vp-p 285VRms</td>
</tr>
<tr>
<td>Voltage Protection</td>
<td>120VAC/250VDC</td>
</tr>
<tr>
<td>Construction</td>
<td>Powder-coated aluminum housing in polyethylene case</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td>33.5” x 8.25” x 3.75”</td>
</tr>
<tr>
<td>Weight</td>
<td>12 lbs. complete</td>
</tr>
</tbody>
</table>

**Locators Application Guide**

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

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 cases providing the cabling is in place at the remote end—will disrupt service.
5. No sorting (high RF bleed) can trace coax if transmitter connected to braid.
6. Low frequency locators need a “path to earth” (drill, 5000 ft. on an open conductor and 1000 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
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

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™

- 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
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

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

- 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

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

### 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
Optical Fiber Cleaver

- 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**

<table>
<thead>
<tr>
<th>Applicable Fibers</th>
<th>Fiber Cleaved Length</th>
<th>Cladding Diameter</th>
<th>Coating Diameter</th>
<th>Fiber Count</th>
<th>Cleaving Angle</th>
<th>Blade Life</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM (G.652); MM (G.651); NZDS (G.655); BIF (G.657)</td>
<td>10mm</td>
<td>125μm</td>
<td>0.25 mm and 0.9 mm</td>
<td>Single</td>
<td>&lt; 1.5˚</td>
<td>48,000 Cleaves</td>
<td>0.56 lbs (255 g)</td>
<td>2.29” x 2.17” x 1.89” (58 x 55 x 48 mm)</td>
</tr>
</tbody>
</table>

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

Splice-On Connector

- 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 identification

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Insertion Loss (Max)</th>
<th>Optical Return Loss</th>
<th>Ferrule Type</th>
<th>Color Code</th>
<th>Operating Temperature</th>
<th>Industry Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM/APC</td>
<td>0.3dB</td>
<td>&gt;65dB</td>
<td>All Zirconia Pre-Polished Ferrules</td>
<td>Green</td>
<td>-40 to 85 degrees C</td>
<td>RoHS Compliant, Tecordia GR-326-CORE Compliant</td>
</tr>
<tr>
<td>SM/UPC</td>
<td>0.4dB</td>
<td>&gt;55dB</td>
<td></td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MM/62.5UM</td>
<td></td>
<td></td>
<td></td>
<td>Beige</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MM/50UM</td>
<td></td>
<td></td>
<td></td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MM/0M3</td>
<td></td>
<td></td>
<td></td>
<td>Aqua</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MM/0M4</td>
<td></td>
<td></td>
<td></td>
<td>Aqua</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMPATIBLE FUSION SLICERS**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>AFL</th>
<th>Sumitomo</th>
<th>Fitel</th>
<th>INNO</th>
<th>FIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSM11 (S/M)</td>
<td>FSM-17S</td>
<td>Type-25e (U/S/M)</td>
<td>S122 (A/C/M)</td>
<td>IFS10</td>
<td>CA3</td>
</tr>
<tr>
<td>FSM-18S</td>
<td>FSM-19S</td>
<td>Type-39F</td>
<td>S121 (A/M)</td>
<td>IFS15</td>
<td></td>
</tr>
<tr>
<td>FSM-60(S/R)</td>
<td>Type-46</td>
<td>S123 (C/M)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSM-70(S/R)</td>
<td>Type-66</td>
<td>S153</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantum (Q101-CA)</td>
<td></td>
<td></td>
<td></td>
<td>S178A</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compatible fiberTOOLS® SOCs</th>
<th>All Versions</th>
<th>SC and LC Only</th>
<th>SC, LC and ST Only</th>
<th>All Versions</th>
<th>All Versions</th>
<th>All Versions</th>
<th>All Versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Versions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Splice-On Connectors & Adapters

<table>
<thead>
<tr>
<th>CAT. NO. (12 PACK)</th>
<th>UPC</th>
<th>CAT. NO. (100 PACK)</th>
<th>UPC</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCAPC-SOC-12</td>
<td>02302</td>
<td>SCAPC-SOC-100</td>
<td>02360</td>
<td>SC/APC Singlemode, Green 900µm Boot</td>
</tr>
<tr>
<td>SC50-SOC-12</td>
<td>02305</td>
<td>SC50-SOC-100</td>
<td>02365</td>
<td>SC/PC Singlemode, Blue 900µm Boot</td>
</tr>
<tr>
<td>SC62-SOC-12</td>
<td>02304</td>
<td>SC62-SOC-100</td>
<td>02364</td>
<td>SC/PC 62.5µm Multimode (OM1), Beige 900µm Boot</td>
</tr>
<tr>
<td>SCOM3-SOC-12</td>
<td>02306</td>
<td>SCOM3-SOC-100</td>
<td>02368</td>
<td>SC/PC 50µm Multimode (OM3), Aqua 900µm Boot</td>
</tr>
<tr>
<td>SCOM4-SOC-12</td>
<td>02308</td>
<td>SCOM4-SOC-100</td>
<td>02371</td>
<td>SC/PC 50µm Multimode (OM4), Aqua 900µm Boot</td>
</tr>
<tr>
<td>FCAPC-SOC-12</td>
<td>02313</td>
<td>FCAPC-SOC-100</td>
<td>02372</td>
<td>FC/APC Singlemode, Green 900µm Boot</td>
</tr>
<tr>
<td>FC50-SOC-12</td>
<td>02314</td>
<td>FC50-SOC-100</td>
<td>02377</td>
<td>FC/PC Singlemode, Blue 900µm Boot</td>
</tr>
<tr>
<td>FC62-SOC-12</td>
<td>02316</td>
<td>FC62-SOC-100</td>
<td>02378</td>
<td>FC/PC 62.5µm Multimode (OM1), Beige 900µm Boot</td>
</tr>
<tr>
<td>FCOM3-SOC-12</td>
<td>02323</td>
<td>FCOM3-SOC-100</td>
<td>02381</td>
<td>FC/PC 50µm Multimode (OM3), Aqua 900µm Boot</td>
</tr>
<tr>
<td>FCOM4-SOC-12</td>
<td>02328</td>
<td>FCOM4-SOC-100</td>
<td>02384</td>
<td>FC/PC 50µm Multimode (OM4), Aqua 900µm Boot</td>
</tr>
<tr>
<td>STUPC-SOC-12</td>
<td>02330</td>
<td>STUPC-SOC-100</td>
<td>02385</td>
<td>ST/UPC Singlemode, Blue 900µm Boot</td>
</tr>
<tr>
<td>ST50-SOC-12</td>
<td>02334</td>
<td>ST50-SOC-100</td>
<td>02387</td>
<td>ST/PC 50µm Multimode (OM2), Black 900µm Boot</td>
</tr>
<tr>
<td>ST62-SOC-12</td>
<td>02332</td>
<td>ST62-SOC-100</td>
<td>02388</td>
<td>ST/PC 62.5µm Multimode (OM1), Beige 900µm Boot</td>
</tr>
<tr>
<td>STOM3-SOC-12</td>
<td>02335</td>
<td>STOM3-SOC-100</td>
<td>02389</td>
<td>ST/PC 50µm Multimode (OM3), Aqua 900µm Boot</td>
</tr>
<tr>
<td>STOM4-SOC-12</td>
<td>02343</td>
<td>STOM4-SOC-100</td>
<td>02390</td>
<td>ST/PC 50µm Multimode (OM4), Aqua 900µm Boot</td>
</tr>
<tr>
<td>LCAPC-SOC-12</td>
<td>02345</td>
<td>LCAPC-SOC-100</td>
<td>02391</td>
<td>LC/APC Singlemode, Green 900µm Boot</td>
</tr>
<tr>
<td>LC50-SOC-12</td>
<td>02346</td>
<td>LC50-SOC-100</td>
<td>02395</td>
<td>LC/PC Singlemode, Blue 900µm Boot</td>
</tr>
<tr>
<td>LC62-SOC-12</td>
<td>02348</td>
<td>LC62-SOC-100</td>
<td>02397</td>
<td>LC/PC 62.5µm Multimode (OM1), Beige 900µm Boot</td>
</tr>
<tr>
<td>LCOM3-SOC-12</td>
<td>02351</td>
<td>LCOM3-SOC-100</td>
<td>02398</td>
<td>LC/PC 50µm Multimode (OM2), Black 900µm Boot</td>
</tr>
<tr>
<td>LCOM4-SOC-12</td>
<td>02359</td>
<td>LCOM4-SOC-100</td>
<td>02400</td>
<td>LC/PC 50µm Multimode (OM4), Aqua 900µm Boot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADAPTER</th>
<th>UPC</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFL SOC ADAPTER</td>
<td>01304</td>
<td>AFL/Fujikura SOC Adapter</td>
</tr>
<tr>
<td>FITEL SOC ADAPTER</td>
<td>02052</td>
<td>Furakawa/Fitel SOC Adapter</td>
</tr>
<tr>
<td>SUMI SOC ADAPTER</td>
<td>02058</td>
<td>Sumitomo SOC Adapter</td>
</tr>
<tr>
<td>INNO SOC ADAPTER</td>
<td>02060</td>
<td>Inno SOC Adapter</td>
</tr>
<tr>
<td>FIS SOC ADAPTER</td>
<td>02062</td>
<td>FIS Super Cougar SOC Adapter</td>
</tr>
</tbody>
</table>
930XC Handheld Singlemode OTDR

- 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 fiber testing
- RS-232/USB interface
- Economical
- Compact handheld design
- Easy to use
- Fast automated testing
- NiMH batteries for 8 hours continuous use

SINGLEMODE SPECIFICATIONS

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

- 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 (1kHz, 2kHz)

- Ø0.25
  - -25 to 0dBm (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)

### 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

### Fiber Identifier Kit

**CAT. NO.** | **UPC NO.** | **DESCRIPTION**
--- | --- | ---
FI-100 Kit | 03353 | Fiber Identifier Kit
FI-100-250 | 03354 | 250µm Adapter
FI-100-900 | 03355 | 900µm Adapter
FI-100-2MM | 03356 | 2mm Adapter
FI-100-3MM | 03357 | 3mm Adapter
FI-100-CASE | 03358 | Soft Carry Case
FI-100-SUNSHADE | 03359 | Sun Shade
180XL Visual Fault Locator

- 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

Fiber Cleaning Pens - 1.25mm & 2.5mm

- 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**

### 180XL

- **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**: 120g (not including batteries)
- **Dimensions**: 180mm x 15mm (diameter)

### Fiber Cleaning Pens

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>180XL</td>
<td>84501</td>
<td>Visual Fault Finder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCP-1.25</td>
<td>03577</td>
<td>1.25mm Cleaning Pen</td>
</tr>
<tr>
<td>FCP-2.5</td>
<td>03576</td>
<td>2.5mm Cleaning Pen</td>
</tr>
</tbody>
</table>
Optical Light Sources

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

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

**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**
- GDLS 350 00518 850/1300 Dual LED
- GDLS 355 00519 1310/1550 Dual Laser
- GDLS 360 03203 1490nm/1625nm Dual Laser
- 78-0160-70 21033 Single Instrument pouch

**Connector Options**
- GAC 022B 00440 SC Adapter for source
- GAC 023B 00441 FC Adapter for source
- GAC 024B 00442 ST Adapter for source
- GAC 025B 00443 LC Adapter for source

*Note: SC Adapter included with all laser and LED sources*
Optical Power Meter

- 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

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

### CAT. NO. | UPC NO. | DESCRIPTION
---|---|---
Optical Power Meter | | |
GRP 450-02 | 00502 | Germanium, 0.01dB, Zero ref set |
GRP 450-04 | 00505 | Filtered InGaAs, 0.01dB, Zero ref set |
GRP 460-02 | 00509 | Germanium, 0.01dB, Zero/Set Ref |
GRP 460-04 | 00511 | Filtered InGaAs, 0.01dB, Zero ref set |
78-0160-70 | 21033 | Single Instrument Pouch |

**Connector Options:**

- GAC 020 | 00525 | 2.5mm Universal Adapter |
- GAC 021 | 00526 | 1.25mm Universal Adaptor |
- GAC 026 | 00531 | SC Adaptor for OPM |
- GAC 027 | 00532 | ST Adaptor for OPM |
- GAC 028 | 00533 | FC Adaptor for OPM |
- GAC 029 | 00534 | LC Adaptor for OPM |
- GAC 126 | 02046 | SC/APC Adapter for OPM |
- GAC 540 | 02038 | OptiTap Patchcord SC/APC for OPM |

**Kit Options:**

- 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 |
- 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 |
- 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 |
Video Inspection Scope

- 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**
--- | --- | ---
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**

- 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**
--- | --- | ---
GVIS 400-HDP | 03178 | GVIS 400 Probe Auto Pass/Fail with USB
Video Inspection Scope

- 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

SPECIFICATIONS

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPAD-250</td>
<td>03179</td>
<td>Wi-Fi Portable Access Device - For use with the GVIS-400 HDP</td>
</tr>
</tbody>
</table>

Video Inspection Scope Adapter Tips

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

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

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

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
Fiber Optic Power Meter

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>560XL</td>
<td>84485</td>
<td>Fiber Optic Power Meter</td>
</tr>
<tr>
<td>T1062</td>
<td>60575</td>
<td>SC/PC UCI Adapter</td>
</tr>
<tr>
<td>T1020</td>
<td>60576</td>
<td>FC/PC SOC Adapter</td>
</tr>
<tr>
<td>T1030</td>
<td>60577</td>
<td>ST/PC SOC Adapter</td>
</tr>
</tbody>
</table>

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:
  - +3 dBm to -3 dBm: ±0.5 dB
  - -3 dBm to -50 dBm: ±0.5 dB
  - -50 dBm to -60 dBm: ±0.5 dB
- Resolution: 0.01 dB
- Connector Interface: SOC

Silicon Fiber Optic Power Meter

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>567XL</td>
<td>00025</td>
<td>XL fiberTOOLS® - Silicon Fiber Optic Power Meter</td>
</tr>
</tbody>
</table>

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:
  - +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
High Intensity Fiber Optic Power Meter

- 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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>568XL</td>
<td>00026</td>
<td>XL fiberTOOLS® - High Intensity Optic Power Meter</td>
</tr>
</tbody>
</table>

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 exposure 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 dB: ±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

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; EN60068-1-1; 1992; EN55011, Group 1, Class A EN50082-1; IEC 801-2, -3, -4
**850/1300 nm LED Source**

**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

**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: 100/140μm -20 dBm, -20 dBm
- 62.5/125μm -21 dBm, -20 dBm
- 50/125μm -121 dBm, -21 dBm
- Modulation frequency: 270 kHz, 1 kHz and 2 kHz
- Power Requirements: Two AA size 1.5V batteries
- Connector interface: FC, SC or ST

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

---

**650 nm LED Source for Large Core Plastic and Glass 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: 241 g (8.5 oz.)
- CE

**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 MM 200/300 SI Fiber: -15 dBm ±0.5 dB
- Modular Frequencies: 270 kHz, 1 kHz and 2 kHz ±0.5 dB
- Power Requirements: Two AA size 1.5V batteries
- Connector Interface: ST

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

---

**NOTES:**
- 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

**650 nm LED Source for Large Core Plastic and Glass 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: 241 g (8.5 oz.)
- CE

**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 MM 200/300 SI Fiber: -15 dBm ±0.5 dB
- Modular Frequencies: 270 kHz, 1 kHz and 2 kHz ±0.5 dB
- Power Requirements: Two AA size 1.5V batteries
- Connector Interface: ST

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

---

**NOTES:**
- 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

**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

**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 MM 200/300 SI Fiber: -15 dBm ±0.5 dB
- Modular Frequencies: 270 kHz, 1 kHz and 2 kHz ±0.5 dB
- Power Requirements: Two AA size 1.5V batteries
- Connector Interface: ST

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

---

**NOTES:**
- 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

**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

**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 MM 200/300 SI Fiber: -15 dBm ±0.5 dB
- Modular Frequencies: 270 kHz, 1 kHz and 2 kHz ±0.5 dB
- Power Requirements: Two AA size 1.5V batteries
- Connector Interface: ST
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

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; EN50011, Group 1, Class A EN50082-1:
  1992 IEC 801-2, -3, -4

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

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

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; EN50011, Group 1, Class A EN50082-1:
  1992 IEC 801-2, -3, -4

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)

CAT. NO. UPC NO. DESCRIPTION
578XL AS100 00029 LED Source 1300 NM, 62.5/140 Fiber
APC-108 60572 FC/PC UCI Adapter
ATS-108 60573 ST/PC UCI Adapter
ASC-108 60574 SC/PC UCI Adapter

www.greenlee.com
1310/1550 nm Laser Source

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>580XL-FC</td>
<td>84489</td>
<td>1310/1550nm Laser source w/FC interface</td>
</tr>
<tr>
<td>580XL-SC</td>
<td>84490</td>
<td>1310/1550nm Laser source w/SC interface</td>
</tr>
<tr>
<td>580XL-ST</td>
<td>84491</td>
<td>1310/1550nm Laser source w/ST interface</td>
</tr>
</tbody>
</table>

**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
  - Typical: -7 dBm
- Modulation frequency
  - 270 kHz, 1 kHz and 2 kHz
  - 270 kHz, 1 kHz and 2 kHz
- Power Requirements
  - (approx. 40 hours continuous operation)
  - Connector interface
    - FC, SC or ST
    - FC, SC or ST

**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

Multimode Fiber Optic Test Set

- 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

<table>
<thead>
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<th>CAT. NO.</th>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>5670-FC</td>
<td>84492</td>
<td>Multimode Fiber Optic Test Set w/FC interface</td>
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<tr>
<td>5670-SC</td>
<td>84493</td>
<td>Multimode Fiber Optic Test Set w/SC interface</td>
</tr>
<tr>
<td>5670-ST</td>
<td>84494</td>
<td>Multimode Fiber Optic Test Set w/ST interface</td>
</tr>
</tbody>
</table>
Singlemode Fiber Optic Test Set

- 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

Multimode and Singlemode Fiber Optic Test Set

- 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

<table>
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<tbody>
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<td>5680-FC</td>
<td>84495</td>
<td>Singlemode Fiber Optic Test Set w/FC interface</td>
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<tr>
<td>5680-SC</td>
<td>84496</td>
<td>Singlemode Fiber Optic Test Set w/SC interface</td>
</tr>
<tr>
<td>5680-ST</td>
<td>84497</td>
<td>Singlemode Fiber Optic Test Set w/ST interface</td>
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</tbody>
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<tbody>
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<td>84498</td>
<td>Multimode and Singlemode Fiber Optic Test Set w/FC interface</td>
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<tr>
<td>5890-SC</td>
<td>84499</td>
<td>Multimode and Singlemode Fiber Optic Test Set w/SC interface</td>
</tr>
<tr>
<td>5890-ST</td>
<td>84500</td>
<td>Multimode and Singlemode Fiber Optic Test Set w/ST interface</td>
</tr>
</tbody>
</table>
### 525N-30 Smart Optical Loss Test Set

- 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

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>525N-30-FC</td>
<td>00891</td>
<td>850/1300nm Smart Optical Loss Test Set - FC interface</td>
</tr>
<tr>
<td>525N-30-SC</td>
<td>00892</td>
<td>850/1300nm Smart Optical Loss Test Set - SC interface</td>
</tr>
<tr>
<td>525N-30-ST</td>
<td>00893</td>
<td>850/1300nm Smart Optical Loss Test Set - ST interface</td>
</tr>
</tbody>
</table>

#### 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 |
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

**SPECIFICATIONS**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>525N-60-ST</td>
<td>00896</td>
<td>1310/1550 nm Smart Optical Loss Test Set - PC Connectors</td>
</tr>
<tr>
<td>525N-60-FC</td>
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<td>1310/1550 nm Smart Optical Loss Test Set - PC Connectors</td>
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<td>525N-60-SC</td>
<td>00895</td>
<td>1310/1550 nm Smart Optical Loss Test Set - PC Connectors</td>
</tr>
</tbody>
</table>

**525N-60-XX**

**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
- 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: ±0.5 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
Connector Cleaning Systems

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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</tr>
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<tbody>
<tr>
<td>948</td>
<td>60692</td>
<td>ReelCleaner™ Connector Cleaning System</td>
</tr>
<tr>
<td>948/2</td>
<td>10792</td>
<td>Reel Set, 2/Package</td>
</tr>
<tr>
<td>945/ESD/1</td>
<td>24053</td>
<td>Reel Set, 1/Package</td>
</tr>
</tbody>
</table>

Adapter Cleaning Wands

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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</tr>
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<tbody>
<tr>
<td>946</td>
<td>60571</td>
<td>2.5 mm Cleaning Wands, 10/Package</td>
</tr>
<tr>
<td>946/K</td>
<td>60689</td>
<td>2.5 mm Cleaning Wands, 200/Box</td>
</tr>
<tr>
<td>947</td>
<td>60690</td>
<td>1.25 mm Cleaning Wands, 10/Package</td>
</tr>
<tr>
<td>947/K</td>
<td>60691</td>
<td>1.25 mm Cleaning Wands, 200/Box</td>
</tr>
</tbody>
</table>
Optical Fiber Monitors

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)

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

SPECIFICATIONS

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

<table>
<thead>
<tr>
<th>CONNECTOR TYPE</th>
<th>SOC ADAPTER</th>
<th>UCI ADAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CAT. NO.</td>
<td>UPC NO.</td>
</tr>
<tr>
<td>1.25 mm Quick-Connect Universal Adapter (LC, MU, etc.)</td>
<td>T1026</td>
<td>60588</td>
</tr>
<tr>
<td>2.5 mm SOC Quick-Connect Adapter (E2000, FC, SC, ST, etc.)</td>
<td>T1025</td>
<td>60587</td>
</tr>
<tr>
<td>E-2000</td>
<td>T10E2</td>
<td>60599</td>
</tr>
<tr>
<td>FC</td>
<td>T1020</td>
<td>60576</td>
</tr>
<tr>
<td>HMS-10/HP</td>
<td>T1040</td>
<td>60590</td>
</tr>
<tr>
<td>LC</td>
<td>T10LC</td>
<td>60600</td>
</tr>
<tr>
<td>MIL-T-29504/4 &amp; /5 Termini</td>
<td>T1038</td>
<td>60589</td>
</tr>
<tr>
<td>MT-RJ</td>
<td>T13A2</td>
<td>60605</td>
</tr>
<tr>
<td>SC</td>
<td>T1062</td>
<td>60575</td>
</tr>
<tr>
<td>SMA 905/906</td>
<td>T1087</td>
<td>60596</td>
</tr>
<tr>
<td>ST</td>
<td>T1030</td>
<td>60577</td>
</tr>
<tr>
<td>TOSLINK – Simplex</td>
<td>T10TB</td>
<td>60602</td>
</tr>
<tr>
<td>Versatile Link – V/Z PIN</td>
<td>T10ZP</td>
<td>60604</td>
</tr>
</tbody>
</table>

* 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)
FIBER OPTIC HAND TOOLS
ProGrip 5-in-1 Fiber Optic Stripper

- 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

- 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

- 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

- 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
Pocket Cable Stripper

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1903</td>
<td>12679</td>
<td>Cable Stripping Tool</td>
<td></td>
</tr>
<tr>
<td>13544</td>
<td>13544</td>
<td>Replacement Blade (2 per package)</td>
<td></td>
</tr>
<tr>
<td>13545</td>
<td>13545</td>
<td>Replacement Small Hook</td>
<td></td>
</tr>
<tr>
<td>13546</td>
<td>13546</td>
<td>Replacement Large Hook</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1922-1</td>
<td>Fiber Optic Scribe</td>
<td>2 oz</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1920-1</td>
<td>SC, ST, FC Polishing Puck</td>
<td>2 oz</td>
</tr>
<tr>
<td>PA1926-1</td>
<td>LC Polishing Puck</td>
<td>2 oz</td>
</tr>
</tbody>
</table>
FIBER OPTIC KITS

Ultimate Fiber Tool Kit

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 Crimpler with three interchangeable dies. The Ultimate Tool Bag also has plenty of room for you to add your consumables.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4924</td>
<td>Ultimate Fiber Tool Kit</td>
<td>5.65 lbs</td>
</tr>
</tbody>
</table>

**ULTIMATE FIBER TOOL KIT INCLUDES**

- PA1511  Kevlar® Cutter
- PA1171  ProGrip 5-in-1 Fiber Optic Stripper
- PA1162  Economy Fiber Optic Stripper
- PA1161  Adjustable Jacket Stripper
- PA1820  AM 25 Slitter
- PA1821  AM 35 Slitter
- PA1258  LC CST- Mini Stripper
- PA1600  1600 Series Crimp Frame
- PA2044  STII Type Die Set
- PA2664  SMA/SMB/FC/BICONIC Die Set
- PA1922-1 Fiber Optic Scribe
- PA1920-1 SC/ST/FC Polishing Puck
- PA1926-1 LC Polishing Puck
- N/A     Plano® Tackle Box
- PA4923  Ultimate Tool Bag

Kevlar® is a registered trademark of E.I. DuPont, Inc.

FiberReady Tool Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA906001</td>
<td>FiberReady Tool Kit</td>
<td>3.1 lbs</td>
</tr>
</tbody>
</table>

**FIBERREADY TOOL KIT INCLUDES**

- PA1511  Kevlar® Cutter
- PA1171  ProGrip 5-in-1 Fiber Optic Stripper
- PA1822  Universal Cable Stripper
- PA1600  1600 Series Crimp Frame
- PA2044  STII Type Die Set
- PA2664  SMA/SMB/FC/BICONIC Die Set
- N/A     Zippered Portfolio Case with Handles

Kevlar® is a registered trademark of E.I. DuPont, Inc.
COMMUNICATIONS KITS

GripPack Quick-Release Tool Holster

- 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

Grip Pack Kits

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

Pro COAX Tool Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPS NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>46601</td>
<td>01292</td>
<td>Pro COAX Tool Kit</td>
</tr>
</tbody>
</table>

46601 PRO COAX TOOL KIT INCLUDES

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4932</td>
<td>Ultimate Technician Kit</td>
<td>7.2 lbs</td>
</tr>
</tbody>
</table>

PA4932 ULTIMATE TECHNICIAN KIT INCLUDES

- PA1179 KTS round cable cutter
- PA1116 Data SureStrip® UTP/STP & flat satin cutter/stripper
- PA1257 LC-CST CATV “F” coax stripper
- PA1923 Untwist tool
- PA1927 CATV “F” flaring & attachment tool - RG6/RG6 QS
- PA1559 SealTitle® Pro compression crimper
- PA3589 SurePunch Pro punchdown tool
- PA4599 SurePunch Pro detachable LED light
- PA4572 110 blade
- PA4591 Double 110 blade
- PA4573 66 blade
- PA4574 BX blade
- PA4575 Krone LSA blade
- PA1543 LAN ProNavigator® tester & remote
- PA1573 Telephone Test Set & LAN Cable-Check™
- PA1902 RJ45 adapter
- PA1900 Can wrench
- N/A (10) RJ22 handset plugs
- N/A (10) RJ11/12 plugs, stranded, flat cable
- N/A (10) RJ45 plugs, Cat5e, solid, round cable
- N/A (10) CATV “F” RG6/RG6 QS connectors
- N/A (2) BNC-to-CATV “F” adapters
- N/A Plano® plastic tackle box

Ultimate Premise Service Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4933</td>
<td>Ultimate Premise Service Kit</td>
<td>6.1 lbs</td>
</tr>
</tbody>
</table>

PA4932 ULTIMATE PREMISE SERVICE KIT INCLUDES

- PA1179 KTS round cable cutter
- PA1116 Data SureStrip® UTP/STP & flat satin cutter/stripper
- PA1257 LC-CST CATV “F” coax stripper
- PA9000 CrimpALL® crimp frame with EZI-CHANGE™ thumb screws
- PA3589 SurePunch Pro punchdown tool
- PA4572 110 blade
- PA4573 66 blade
- PA1543 LAN ProNavigator® tester & remote
- PA1573 Telephone Test Set & LAN Cable-Check™
- PA1902 RJ45 adapter
- PA901074 (2) BNC-to-CATV “F” adapters
- PA4923 Ultimate Tool Bag
- N/A Plano® plastic tackle box

Die Sets:

- PA2062 Die Sets: RJ11/12 WE/SS-style
- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4939</td>
<td>Ultimate Coax Compression Tool Kit</td>
<td>8.25 lbs</td>
</tr>
</tbody>
</table>

PA4939 ULTIMATE COAX COMPRESSION TOOL PRO KIT INCLUDES

- PA1821 AM 35 Slitter
- PA1179 KT8 Cutter
- PA1119 UTP/Coax Cutter/Stripper
- PA1280 CST Pro Coax tool
- PA2280 CST Pro GRN Cassette
- PA2281 CST Pro OG – Kings & Amphenol BNC
- PA2282 CST Pro BK – ADC, Amphenol HDTV BNC
- PA2283 CST Pro BL – CATV “F”
- PA2284 CST Pro Rollers
- PA1927 CATV “F” Flaring & Insertion Tool
- PA1557 SealTite® Pro Compression Crimper
- PA1907 BNC Extraction Tool
- PA1908 CATV “F” Extraction Tool
- PA1594 LAN & A/V Cable-Check™ Tester
- N/A Plano® Tackle Box
- PA4923 Ultimate Tool Bag
- PA9645 (50) SealTite™ CATV “F” – RG59
- PA9720 (10) SealTite™ RCA – RGX
- PA9730 (10) SealTite™ BNC – RGX
- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4934</td>
<td>Ultimate DataReady® Pro Kit</td>
<td>5.15 lbs</td>
</tr>
</tbody>
</table>

PA4932 ULTIMATE DATAREADY® PRO KIT INCLUDES

- PA1116 Data SureStrip® UTP/STP & flat satin cutter/stripper
- PA1923 Untwist tool
- PA8000 CrimpALL® crimp frame with EZI-CHANGE™ thumb screws
- PA3589 SurePunch Pro punchdown tool
- PA4599 SurePunch Pro detachable LED light
- PA4571 110/ 66 blade
- PA4591 Double 110 blade
- PA1543 LAN ProNavigator® tester & remote
- PA4923 Ultimate Tool Bag
- N/A Plano® plastic tackle box

Die Sets:
- PA2061 RJ45 WE/SS-style
- PA2062 RJ11/12 WE/SS-style
- PA2063 RJ22 handset
- PA2064 RJ45 AMP-style
- PA2067 RJ11 DEC-MMJ
Ultimate Data/Voice Pro Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4935</td>
<td>Ultimate Data/Voice Pro Kit</td>
<td>4.5 lbs</td>
</tr>
</tbody>
</table>

PA4935 ULTIMATE DATA/VOICE PRO KIT INCLUDES

- PA1116 Data SureStrip® UTP/STP & flat satin cutter/stripper
- PA1923 Untwist tool
- PA1561 All-in-One Phone/Data tool
- PA3589 SurePunch Pro punchdown tool
- PA4572 110 blade
- PA4573 66 blade
- PA4591 Double 110 blade
- PA1573 Telephone Test Set & LAN Cable-Check™
- PA1900 Can wrench
- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4923</td>
<td>Ultimate Tool Bag with Plano® tackle box</td>
<td>2.2 lbs</td>
</tr>
</tbody>
</table>

Tools and bits not included
**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4915</td>
<td>SealTite® Pro A/V Kit</td>
<td>46 oz</td>
</tr>
</tbody>
</table>

**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**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4910</td>
<td>SealTite® Pro Kit</td>
<td>46 oz</td>
</tr>
</tbody>
</table>

**SEALTITE® PRO KIT INCLUDES**

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

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA906003</td>
<td>CoaxReady™ Compression Tool Kit</td>
<td>3.5 lbs</td>
</tr>
</tbody>
</table>

CoaxReady™ Deluxe Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA901081</td>
<td>CoaxReady™ Deluxe Kit</td>
<td>3 lbs</td>
</tr>
</tbody>
</table>

CoaxReady™ Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA901054</td>
<td>CoaxReady™ Kit</td>
<td>2.5 lbs</td>
</tr>
</tbody>
</table>

**Notes:**

- Teflon® is a registered trademark of Dupont
- www.greenlee.com
## Telco Technician Tool Kit

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4938</td>
<td>Telco Technician Kit</td>
<td>7.6 lbs</td>
</tr>
</tbody>
</table>

**BROADCASTREADY® PRO KIT INCLUDES**
- PA1116 Data SureStrip® UTP/STP Cutter/Stripper
- PA1933 Datacomm Scissors
- PA3570 SurePunch Pro Punchdown Tool
- PA4571 110/66 blade
- PA4599 SurePunch Pro Detachable LED Light
- N/A Mini-MagLite®
- N/A Sharpie® Black Marker
- PA4940 GripPack Quick Release PDT Holster
- PA1561 All-in-One Phone/Data Crimp Tool
- PA9655 (50) RJ45 Cat5e Modular Plugs
- PA1902 RJ45 Adapter
- PA1903 RJ11 Adapter
- PA1573 Tone Probe Plus Cable-Check™
- TM500 Butt Set
- N/A Plano® Tackle Box
- PA4923 Ultimate Tool Bag

## BroadcastReady® Kit

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA901083</td>
<td>BroadcastReady® Kit</td>
<td>3 lbs</td>
</tr>
</tbody>
</table>

**BROADCASTREADY® PRO KIT INCLUDES**
- PA1179 K18 round cable cutter
- PA1280 CST Pro Coax tool
- PA2280 CST Pro GRN – common connectors
- PA2281 CST Pro OG – Kings & Amphenol 3-piece
- PA2282 CST Pro BK – ADC, Amphenol HDTV
- N/A Screwdriver to change dies
- PA1543 LAN ProNavigator® tester & remote
- PA1600 1600 Series crimp frame
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4908</td>
<td>DataComm Pro Starter Kit</td>
<td>1.8 lbs</td>
</tr>
</tbody>
</table>

DATACOMM PRO STARTER KIT INCLUDES

- PA1116 Data SureStrip® UTP/STP Cutter/Stripper
- PA3570 SurePunch Pro Punchdown Tool
- PA4528 110 Reversible blade
- PA1561 All-in-One Phone/Data Crimp Tool
- PA9520 (10) RJ45 Cat5e Modular Plugs
- N/A Compact Zipper Case

DataReady™ Pro Kit

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA901378</td>
<td>DataReady™ PRO Kit</td>
<td>4 lbs</td>
</tr>
<tr>
<td>PA9013781</td>
<td>DataReady™ PRO Kit - Krone*</td>
<td>4 lbs</td>
</tr>
</tbody>
</table>

DATAREADY™ PRO KITS INCLUDE

- PA1116 Data SureStrip® UTP/STP & flat satin cutter/stripper
- PA1923 Untwist Tool
- PA3589 SurePunch Pro punchdown tool
- PA4599 SurePunch Pro detachable LED light
- PA4591 Double 110 blade
- PA4571 110/66 blade**
- PA1543 LAN ProNavigator® UTP/STP continuity tester & remote
- PA8000 CrimpALL® crimp frame with EZI-CHANGE™ thumb screws

DIE SETS:

- PA2061 RJ45 WE/SS-style
- PA2062 RJ11/12 WE/SS-style
- PA2063 RJ22 handset
- PA2064 DRI45 AMP-style
- PA2067 RJ11 DEC-MMJ

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

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA901053</td>
<td>DataReady™ Kit</td>
<td>3 lbs</td>
</tr>
<tr>
<td>PA9010531</td>
<td>DataReady™ Kit - AMP/Krone™</td>
<td>3 lbs</td>
</tr>
</tbody>
</table>

**DATEREADY™ KITS INCLUDE**

- **PA1116** Data SureStrip® UTP/STP & flat satin cutter/stripper
- **PA1561** All-in-One Phone/Data tool*
- **PA3570** SurePunch Impact Punchdown Tool
- **PA4571** 110/66 blade**
- **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**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
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<tbody>
<tr>
<td>PA901039</td>
<td>Premise Service Kit</td>
<td>7.6 lbs</td>
</tr>
<tr>
<td>PA9010391</td>
<td>Premise Service Kit - AMP/Krone*</td>
<td>7.6 lbs</td>
</tr>
</tbody>
</table>

**PREMISE SERVICE KITS INCLUDE**

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

**DIE SETS:**

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

* Replaced with LC CST-56/59 coax stripper PA1235
** Replaced with RJ45 AMP-style & RG58/59 BNC/TNC dies PA2334, PA2364, PA2365
*** Replaced with BK or Krone blade #PA4575 (only with PA9010391 Kit)
Network Tool Bundle

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4909</td>
<td>Network Tool Bundle</td>
<td>18.4 oz</td>
</tr>
</tbody>
</table>

PA4909 NETWORK TOOL BUNDLE INCLUDES

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

- 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/extension & socket bit holder/extension

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>PA4370</td>
<td>Computer service kit</td>
<td>4.5 lbs</td>
</tr>
</tbody>
</table>

Cordless Screwdriver & Socket Set

- Adjustable torque up to 21.7 in-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. (0.63 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.*

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4336</td>
<td>Cordless screwdriver &amp; socket set</td>
</tr>
<tr>
<td>PA6000</td>
<td>Replacement battery</td>
</tr>
<tr>
<td>PA6001</td>
<td>Battery charger</td>
</tr>
</tbody>
</table>
Voice and Category 5 Data Termination Kit

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>45469</td>
<td>45469</td>
<td>Voice and Category 5 Data Termination Kit</td>
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Kit Includes:

<table>
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<tr>
<th>CAT. NO.</th>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>45482</td>
<td>45482</td>
<td>Cable Cutter</td>
</tr>
<tr>
<td>45579</td>
<td>45579</td>
<td>Kwik Stripper® Twisted Pair Stripper</td>
</tr>
<tr>
<td>46023</td>
<td>46023</td>
<td>Punchdown Tool with 110 Blade</td>
</tr>
<tr>
<td>46022</td>
<td>46022</td>
<td>66 Style Punchdown Blade</td>
</tr>
<tr>
<td>45575</td>
<td>45575</td>
<td>Telephone Ratchet Crimper for 4-, 6- and 8- Position Modular Plugs</td>
</tr>
<tr>
<td>45479</td>
<td>45479</td>
<td>Zipper Case</td>
</tr>
</tbody>
</table>

Category 5 Data Termination and Test Kit

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>45470</td>
<td>45470</td>
<td>Category 5 Data Termination and Test Kit</td>
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Kit Includes:

<table>
<thead>
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<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>45482</td>
<td>45482</td>
<td>Cable Cutter</td>
</tr>
<tr>
<td>45579</td>
<td>45579</td>
<td>Kwik Stripper® Twisted Pair Stripper</td>
</tr>
<tr>
<td>46023</td>
<td>46023</td>
<td>Punchdown Tool with 110 Blade</td>
</tr>
<tr>
<td>45575</td>
<td>45575</td>
<td>Telephone Ratchet Crimper for 4-, 6- and 8- Position Modular Plugs</td>
</tr>
<tr>
<td>468T</td>
<td>60379</td>
<td>Modular Cable Tester Transmitter with Tone Generator</td>
</tr>
<tr>
<td>468R</td>
<td>60380</td>
<td>Modular Cable Tester Receiver</td>
</tr>
<tr>
<td>45485</td>
<td>45485</td>
<td>Zipper Case</td>
</tr>
</tbody>
</table>
## Hand Tools

### Telecom Splice Crimpers

**PA1180**
- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1180</td>
<td>4-in-1 Telecom Splice Crimper</td>
</tr>
<tr>
<td>PA1178</td>
<td>Telecom Splice Crimper</td>
</tr>
</tbody>
</table>

### Round Cable Cutters

**PA1175**
- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1175</td>
<td>Contour Round Cable Cutter</td>
</tr>
<tr>
<td>PA1179</td>
<td>Dual-Contour Round Cable Cutter</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>45482</td>
<td>45482</td>
<td>Cable Cutter</td>
</tr>
</tbody>
</table>
Cable Splicer’s Knife and Splicer’s Snips

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-K01A</td>
<td>12997</td>
<td>Scissors and Knife Kit in Pouch</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-T03</td>
<td>89195</td>
<td>Snips</td>
</tr>
</tbody>
</table>

Pro Stainless Steel Wire Strippers / Cutters / Crimpers

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
<th>SOLID STRIP</th>
<th>STRANDED STRIP</th>
<th>BOLT SHEAR</th>
<th>CRIMP</th>
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</thead>
<tbody>
<tr>
<td>1950-SS</td>
<td>02241</td>
<td>Pro Stainless Wire Stripper / Cutter / Crimper</td>
<td>10-18</td>
<td>12-20</td>
<td>6-32, 8-32</td>
<td>16-10</td>
</tr>
<tr>
<td>1955-SS</td>
<td>01361</td>
<td>Pro Stainless Wire Stripper / Cutter / Crimper (Curve)</td>
<td>10-18</td>
<td>12-20</td>
<td>6-32, 8-33</td>
<td>16-10</td>
</tr>
<tr>
<td>1956-SS</td>
<td>02242</td>
<td>Pro Stainless Wire Stripper / Cutter / Crimper (Curve)</td>
<td>6-14</td>
<td>8-16</td>
<td>6-32, 8-34</td>
<td>16-10</td>
</tr>
</tbody>
</table>
GripP-Strippers 10 & 20

- Head of tool and handles designed at optimum 22° angle to prevent awkward wrist bends
- Precision ground 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>CAP (AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1117</td>
<td>GripP 10 cutter/stripper</td>
<td>10-22 12-24</td>
</tr>
<tr>
<td>PA1118</td>
<td>GripP 20 cutter/stripper</td>
<td>20-30 22-32</td>
</tr>
<tr>
<td>PA1123</td>
<td>Wire Stripper Bundle, includes both PA1117 and PA1118</td>
<td></td>
</tr>
</tbody>
</table>

Do not use on live circuits.

stripax® Pro 6

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1113</td>
<td>stripax® Pro 6 (28-10 AWG) (.08-6.0 mm2)</td>
<td>5.5 oz</td>
</tr>
<tr>
<td>PA2113</td>
<td>stripax® Pro 6 replacement stripping blade set</td>
<td></td>
</tr>
</tbody>
</table>

Do not use on live circuits

† 68 spring-compression blades precisely adjust to the insulation.

Teflon® is a registered trademark of Dupont
mini-stripax® plus

- 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

Do not use on live circuits.

 ministers PVC only. Do not use on live circuits.

For Teflon, order blades separately see below in mini-stripax Plus Replacement Blades Section.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1115P</td>
<td>mini-stripax® plus (28-18 AWG)</td>
<td>4 oz</td>
</tr>
</tbody>
</table>

Teflon® is a registered trademark of Dupont

Adjustable Wire Stripper & Cutter

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1161</td>
<td>Adjustable wire stripper &amp; cutter (30-10 AWG)</td>
<td>3 oz</td>
</tr>
</tbody>
</table>
**Combo UTP/Coax SureStrip®**

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1119</td>
<td>Combo UTP/Coax SureStrip®</td>
<td>2.5 oz</td>
</tr>
<tr>
<td>PA2119</td>
<td>Coax Blade Cassette</td>
<td>—</td>
</tr>
<tr>
<td>PA2120</td>
<td>UTP Cut/Strip Blade</td>
<td>—</td>
</tr>
</tbody>
</table>

**Data SureStrip®**

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1116</td>
<td>Data SureStrip®</td>
<td>2.5 oz</td>
</tr>
</tbody>
</table>
CST vario Stripper

- 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
PA3242 | Replacement blade holder, blades & allen hex key

Teflon® is a registered trademark of Dupont

CST Strippers

- 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
CST Pro Coax Stripper

- 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

**LC CST Strippers**

- 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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>PRESET STRIP LENGTHS*</th>
<th>CABLE USAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1255</td>
<td>LC CST-58/59 – 2- &amp; 3- Level, Adjustable</td>
<td>0.315” outer jacket</td>
<td>RG58, RG59, RG62 AU &amp; RG6</td>
</tr>
<tr>
<td>PA1256</td>
<td>LC CST-11 – 2- &amp; 3- Level, Adjustable</td>
<td>0.315” outer jacket</td>
<td>RG6, RG11 &amp; RG213</td>
</tr>
<tr>
<td>PA1257</td>
<td>LC CST CATV “F” – 2-Level</td>
<td>0.236” outer jacket</td>
<td>RG59, RG56 &amp; RG56 QUAD CATV “F” (preset for RG56 CATV “F”)</td>
</tr>
<tr>
<td>PA1258</td>
<td>LC CST-Mini</td>
<td>0.344” outer jacket</td>
<td>RG178, RG179, RG188, AT&amp;T 735(A), NT735, Belden 1855A, Belden 8218, RG180, RG187, RG188A, RG405 and more</td>
</tr>
</tbody>
</table>

*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.

Teflon® is a registered trademark of Dupont
Kwik Stripper® Twisted Pair Stripper

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>45579</td>
<td>45579</td>
<td>Kwik Stripper® Twisted Pair Stripper</td>
</tr>
</tbody>
</table>

Typically used for Modular Plug Connectors (See pages 373)

Pro Kwik Stripper® CATV

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>45591</td>
<td>01174</td>
<td>Pro Kwik Stripper® CATV</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1820</td>
<td>AM 25</td>
</tr>
<tr>
<td>PA2109</td>
<td>Replacement blade</td>
</tr>
</tbody>
</table>

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

Teflon® is a registered trademark of Dupont

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1821</td>
<td>AM 35</td>
</tr>
<tr>
<td>PA2109</td>
<td>Replacement blade</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1822</td>
<td>Universal splitter</td>
</tr>
<tr>
<td>PA2109</td>
<td>Replacement blade</td>
</tr>
</tbody>
</table>

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

Teflon® is a registered trademark of Dupont
Pocket Cable Stripper

- 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.

Cable TV “F” Flaring & Attachment Tool

- 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

Coax 3-Way Tool

- 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
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1917</td>
<td>RG59/6/6QS flaring tool</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1908</td>
<td>CATV 8” (203 mm)</td>
</tr>
<tr>
<td>PA1907</td>
<td>BNC 8” (203 mm)</td>
</tr>
<tr>
<td>PA1916</td>
<td>BNC 12” (305 mm)</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1559</td>
<td>SealTite® ProM Coax Crimper</td>
</tr>
</tbody>
</table>

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

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA70020</td>
<td>RG59/6Q-7/11 Pro Coax Compression Tool</td>
</tr>
</tbody>
</table>

**SealTite® 59/6 CATV “F” Compression Crimper**

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA901024</td>
<td>SealTite® Crimper</td>
</tr>
</tbody>
</table>
**SealTite® Cable TV “F” Compression Connectors**

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Pack Clamshell</td>
<td>PA9642</td>
<td>PA9643</td>
<td>PA9644</td>
</tr>
<tr>
<td>20 Pack Clamshell</td>
<td>PA9610</td>
<td>PA9611</td>
<td>PA9612</td>
</tr>
<tr>
<td>50 Pack Jar</td>
<td>PA9645</td>
<td>PA9646</td>
<td>PA9647</td>
</tr>
<tr>
<td>100 Pack Bulk</td>
<td>N/A</td>
<td>PA9614</td>
<td>PA9615</td>
</tr>
</tbody>
</table>

*Also available in retail jar pack, PA9637.

**SealTite® RCA Compression Connectors**

- Patented design with 360° 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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Pack Clamshell</td>
<td>PA9720</td>
<td>PA9714</td>
</tr>
<tr>
<td>50 Pack Jar</td>
<td>PA9721</td>
<td>PA9716</td>
</tr>
</tbody>
</table>

**SealTite® BNC Compression Connectors**

- Patented design with 360° 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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Pack Clamshell</td>
<td>PA9730</td>
<td>PA9715</td>
</tr>
<tr>
<td>50 Pack Jar</td>
<td>PA9731</td>
<td>PA9740</td>
</tr>
</tbody>
</table>

**Hex Crimp Cable TV “F” Connectors**

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Pack Clamshell</td>
<td>PA9676</td>
<td>PA9677</td>
<td>PA9678</td>
</tr>
</tbody>
</table>

**Twist-On Cable TV “F” Connectors**

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Pack Clamshell</td>
<td>PA9694</td>
<td>PA9695</td>
</tr>
</tbody>
</table>
Push-On Cable TV “F” Connectors

- 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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Pack Clamshell</td>
<td>PA9682</td>
<td>PA9683</td>
</tr>
</tbody>
</table>

Other Coaxial Connectors

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9719</td>
<td>Adapter, CATV “F” (female) to RCA (male) (Qty. 10)</td>
</tr>
<tr>
<td>PA901074</td>
<td>Adapter, CATV “F” (female) to BNC (male) (Qty. 1)</td>
</tr>
</tbody>
</table>

Dual Port Ground Block

- 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, 360° contact, for up to 3.0 GHz
- Suitable for satellite or cable TV
- UL/CSA approved

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9675</td>
<td>Dual Port Grounding Block</td>
</tr>
</tbody>
</table>

Cable TV “F” Terminators

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9686</td>
<td>CATV “F” Terminators (10)</td>
</tr>
</tbody>
</table>

Female Splice Adapter

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9675</td>
<td>Female Splice Adapter</td>
</tr>
</tbody>
</table>

BNC Coaxial Adapter

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>45728</td>
<td>BNC Straight Jack to Jack (1)</td>
</tr>
</tbody>
</table>
Cable TV Splitters

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9688</td>
<td>2-Way Cable TV Splitter</td>
</tr>
<tr>
<td>PA9689</td>
<td>3-Way Cable TV Splitter</td>
</tr>
<tr>
<td>PA9690</td>
<td>4-Way Cable TV Splitter</td>
</tr>
</tbody>
</table>

Satellite TV Splitters

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9669</td>
<td>2-Way Satellite TV Splitter</td>
</tr>
<tr>
<td>PA9670</td>
<td>3-Way Satellite TV Splitter</td>
</tr>
<tr>
<td>PA9671</td>
<td>4-Way Satellite TV Splitter</td>
</tr>
<tr>
<td>PA9672</td>
<td>In-Line Amplifier</td>
</tr>
</tbody>
</table>

Satellite Diplexer

- 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
- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA9673</td>
<td>Satellite Diplexer</td>
</tr>
</tbody>
</table>

In-Line Amplifier

- 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
SurePunch Pro Punchdown Tool

- 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 intensity 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3590</td>
<td>SurePunch Pro PDT handle (no blade) and light</td>
</tr>
<tr>
<td>PA3584</td>
<td>SurePunch Pro PDT with Double 110 blade and light</td>
</tr>
<tr>
<td>PA3587</td>
<td>SurePunch Pro PDT with 110 &amp; 66 reversible cut &amp; punch/punch-only blades and light</td>
</tr>
<tr>
<td>PA3588</td>
<td>SurePunch Pro PDT with 110/66 combination cut-only blade and light</td>
</tr>
<tr>
<td>PA3596</td>
<td>SurePunch Pro PDT with 110 reversible cut &amp; punch/punch-only blade and light</td>
</tr>
<tr>
<td>PA3598</td>
<td>SurePunch Pro PDT with BIX™ cut-only (scissors type) blade and light</td>
</tr>
<tr>
<td>PA3599</td>
<td>SurePunch Pro PDT with Krone® LSA cut-only (scissors type) blade and light</td>
</tr>
<tr>
<td>PA3589</td>
<td>SurePunch Pro PDT handle (no blade)</td>
</tr>
<tr>
<td>PA3585</td>
<td>SurePunch Pro PDT with Double 110 blade</td>
</tr>
<tr>
<td>PA3586</td>
<td>SurePunch Pro PDT with 110 &amp; 66 reversible cut &amp; punch/punch-only blades</td>
</tr>
<tr>
<td>PA3591</td>
<td>SurePunch Pro PDT with 110/66 combination cut-only blade</td>
</tr>
<tr>
<td>PA3592</td>
<td>SurePunch Pro PDT with 110 reversible cut &amp; punch/punch-only blade</td>
</tr>
<tr>
<td>PA3593</td>
<td>SurePunch Pro PDT with 66 reversible cut &amp; punch/punch-only blade</td>
</tr>
<tr>
<td>PA3595</td>
<td>SurePunch Pro PDT with Krone® LSA cut-only (scissors type) blade</td>
</tr>
<tr>
<td>PA4599</td>
<td>SurePunch Pro PDT detachable light and batteries</td>
</tr>
</tbody>
</table>
### SurePunch Punchdown Tools

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

- 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

### Impact Punchdown Tools

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3526</td>
<td>Impact punchdown (tool handle only)</td>
</tr>
<tr>
<td>PA3527</td>
<td>Impact punchdown w/66 blade</td>
</tr>
<tr>
<td>PA3528</td>
<td>Impact punchdown w/110 blade</td>
</tr>
<tr>
<td>PA4527</td>
<td>Replacement 66 blade</td>
</tr>
<tr>
<td>PA4528</td>
<td>Replacement 110 blade</td>
</tr>
<tr>
<td>PA4531</td>
<td>Replacement Krone®-type blade</td>
</tr>
</tbody>
</table>

- 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
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>46020</td>
<td>46020</td>
<td>Punchdown Tool Only</td>
</tr>
<tr>
<td>46021</td>
<td>46021</td>
<td>Punchdown Tool w/66 Blade</td>
</tr>
<tr>
<td>46023</td>
<td>46023</td>
<td>Punchdown Tool w/110 Blade</td>
</tr>
<tr>
<td>46022</td>
<td>46022</td>
<td>66 Style Blade</td>
</tr>
<tr>
<td>46024</td>
<td>46024</td>
<td>110 Style Blade</td>
</tr>
<tr>
<td>46025</td>
<td>46025</td>
<td>BIX Style Blade</td>
</tr>
</tbody>
</table>

ProPunch™ 110 Multi-pair Punchdown

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3560</td>
<td>ProPunch 110 with 5-pair head</td>
</tr>
<tr>
<td>PA3561</td>
<td>ProPunch 110 with 4-pair head</td>
</tr>
<tr>
<td>PA4560</td>
<td>Replacement 5-pair head</td>
</tr>
<tr>
<td>PA4561</td>
<td>Replacement 4-pair head</td>
</tr>
<tr>
<td>PA4562</td>
<td>Replacement 5-pair blade cassette</td>
</tr>
<tr>
<td>PA4563</td>
<td>Replacement 4-pair blade cassette</td>
</tr>
</tbody>
</table>
Non-Impact Punchdown Tools with Fixed Blades

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3580</td>
<td>110 Punchdown Tool</td>
<td>3 oz</td>
</tr>
<tr>
<td>PA3581</td>
<td>66 Punchdown Tool</td>
<td>3 oz</td>
</tr>
<tr>
<td>PA3582</td>
<td>BIX™ Punchdown Tool</td>
<td>3 oz</td>
</tr>
</tbody>
</table>

Punchdown Stripper

- 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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1913</td>
<td>Punchdown stripper</td>
<td>2 oz</td>
</tr>
</tbody>
</table>

Pocket Probe Pick

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1915</td>
<td>Pocket probe pick</td>
<td>3 oz</td>
</tr>
</tbody>
</table>

Can Wrench

- 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION: HEAVY DUTY KEYSTONE TIP-</th>
<th>WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>PA1900</td>
<td>Can Wrench</td>
<td>5 oz</td>
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</tbody>
</table>
Jack Terminator

- 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**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>PA8100</th>
<th>General Jack Terminator™ with Punch Down Head-Set</th>
<th>General Punchdown Head-Set</th>
<th>General Punch Only Head-Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>9.6” (245 mm)</td>
<td>9.75” (248 mm)</td>
<td>1.6” (40 mm)</td>
<td>1” (25 mm)</td>
</tr>
<tr>
<td>Height</td>
<td>3.25” (80 mm)</td>
<td>4” (102 mm)</td>
<td>4” (102 mm)</td>
<td>2.1” (53 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>1.25” (32 mm)</td>
<td>1.25” (32 mm)</td>
<td>1.25” (32 mm)</td>
<td>1.25” (32 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.25 lbs (575 g)</td>
<td>1.4 lbs (652 g)</td>
<td>2 oz (54 g)</td>
<td>0.8 oz (23 g)</td>
</tr>
</tbody>
</table>

**CAT. NO.** | DESCRIPTION | JACK COMPATIBILITY |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PA8100</td>
<td>Jack Terminator™ Crimper Frame</td>
<td>Punchdown Head Set not Included</td>
</tr>
<tr>
<td>PA8105</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>Systimax® - MPS100E, Uniprise® UNJ600/500</td>
</tr>
<tr>
<td>PA8106</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>Systimax® - MPS300E, Uniprise® UNJ600/500</td>
</tr>
<tr>
<td>PA8107</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>Leviton® - 41106, 41108, 5G108</td>
</tr>
<tr>
<td>PA8112</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>Leviton® - 61110, 5G110, 6110G</td>
</tr>
<tr>
<td>PA8109</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>OCC® - KMJA5E, KMJA6, K6A</td>
</tr>
<tr>
<td>PA8110</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>HellermannTyton® - RJ45FC5E, RJ45FC6</td>
</tr>
<tr>
<td>PA8111</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>Hubbell® - HXJ Series</td>
</tr>
<tr>
<td>PA8112</td>
<td>Jack Terminator™ with Punchdown Head-Set</td>
<td>Ortronics® - TJSE600, TJ600, TJ610</td>
</tr>
<tr>
<td>PA3711</td>
<td>Replacement Punchdown Head-Set</td>
<td>Systimax® - MPS100E, Uniprise® UNJ600/500</td>
</tr>
<tr>
<td>PA3811</td>
<td>Replacement Punchhead Only</td>
<td>Systimax® - MPS100E, Uniprise® UNJ600/500</td>
</tr>
<tr>
<td>PA3712</td>
<td>Replacement Punchdown Head-Set</td>
<td>Systimax® - MSS400, MSS500, MSS600</td>
</tr>
<tr>
<td>PA3713</td>
<td>Replacement Punchdown Head-Set</td>
<td>Systimax® - MSS400, MSS500, MSS600</td>
</tr>
<tr>
<td>PA3714</td>
<td>Replacement Punchdown Head-Set</td>
<td>Systimax® - MSS400, MSS500, MSS600</td>
</tr>
<tr>
<td>PA3715</td>
<td>Replacement Punchdown Head-Set</td>
<td>OCC® - KMJA5E, KMJA6, K6A</td>
</tr>
<tr>
<td>PA3716</td>
<td>Replacement Punchdown Head-Set</td>
<td>HellermannTyton® - RJ45FC5E, RJ45FC6</td>
</tr>
<tr>
<td>PA3717</td>
<td>Replacement Punchdown Head-Set</td>
<td>Hubbell® - HXJ Series</td>
</tr>
<tr>
<td>PA3718</td>
<td>Replacement Punchdown Head-Set</td>
<td>Ortronics® - TJSE600, TJ600, TJ610</td>
</tr>
</tbody>
</table>
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

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)

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**
---|---
PA1561 | All-in-One UTP Snagless Crimper
PA901014 | All-in-One Ultra Telephone Tool AMP (Tyco)
PA901016 | All-in-One Ultra Telephone Tool (WE/SS)
PA2530 | Replacement blade kit
PA1540 | All-in-One Pro Telephone Tool AMP (Tyco)
PA1530R | All-in-One Pro Telephone Tool (WE/SS)
PA2530 | Replacement blade kit
Modular Plug Connectors

**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

<table>
<thead>
<tr>
<th>CONNECTOR TYPE</th>
<th>CABLE TYPE</th>
<th>QUANTITY</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ45</td>
<td>Cat5e, Solid or Stranded Round, Flat or Oval</td>
<td>10/Pack</td>
<td>PA9546</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50/Pack</td>
<td>PA9655</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100/Pack</td>
<td>PA9649</td>
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</tbody>
</table>

### WE/SS-STYLE 6P6C CONNECTORS

<table>
<thead>
<tr>
<th>CONNECTOR TYPE</th>
<th>CABLE TYPE</th>
<th>QUANTITY</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ11</td>
<td>Solid or Stranded Round, Flat or Oval</td>
<td>10/Pack</td>
<td>PA9520</td>
</tr>
</tbody>
</table>
EK50ML Micro Crimping Tool

- 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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>EK50ML12011</td>
<td>Crimping tool kit with 12mm jaw and 110V charger with carrying case</td>
</tr>
<tr>
<td>EK50ML13811</td>
<td>Crimping tool kit with 13.8mm jaw and 110V charger with carrying case</td>
</tr>
<tr>
<td>EK50ML12022</td>
<td>Crimping tool kit with 12mm jaw and 230V charger with carrying case</td>
</tr>
<tr>
<td>EK50ML13822</td>
<td>Crimping tool kit with 13.8mm jaw and 230V charger with carrying case</td>
</tr>
<tr>
<td>EK50ML1208</td>
<td>12mm jaw EK50ML bare tool</td>
</tr>
<tr>
<td>EK50ML1388</td>
<td>13.8mm jaw EK50ML bare tool</td>
</tr>
<tr>
<td>MBP108</td>
<td>10.8V EK50ML Li-Ion Battery</td>
</tr>
<tr>
<td>MBC110</td>
<td>10.8V EK50ML Li-Ion Battery Charger, 110V</td>
</tr>
<tr>
<td>MBC230</td>
<td>10.8V EK50ML Li-Ion Battery Charger, 230V</td>
</tr>
<tr>
<td>EK50MLCASE</td>
<td>EK50ML Carrying Case</td>
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</tbody>
</table>

**COMPATIBLE DIE SETS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA8000</td>
<td>CrimpALL® tool frame</td>
</tr>
<tr>
<td>PA2303</td>
<td>Replacement EZI-Change™ die screws (2)</td>
</tr>
</tbody>
</table>

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.

CrimpALL® 8000 Series Crimpers

- 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
1300 Series Crimpers

- 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

CrimpALL® Interchangeable Die Sets for Modular Plugs

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ45 - 8P8C (8 Pin) Flat/Round, Solid/Stranded</td>
<td>RJ45 Unkeyed WE and SS</td>
<td>PA8030 PA1307</td>
</tr>
<tr>
<td>RJ11 &amp; RJ12 - 6P6C, 6P4C, 6P2C Flat/Round, Solid/Stranded</td>
<td>RJ11 &amp; RJ12 Unlinked WE and SS</td>
<td>PA8031 PA1340</td>
</tr>
<tr>
<td>RJ22 Handset - 4P4C (4 Pin) Flat/Round, Solid/Stranded</td>
<td>4 Pin Handset WE and SS</td>
<td>PA8032 PA2063</td>
</tr>
<tr>
<td>RJ45 - 8P8C (8 Pin) Flat/Round, Solid/Stranded</td>
<td>RJ45 Unkeyed AMP</td>
<td>PA8033 PA1342</td>
</tr>
<tr>
<td>RJ50 - 10P10C (10 Pin) Flat/Round, Solid/Stranded</td>
<td>RJ50 Unkeyed WE and SS</td>
<td>PA8036 PA1345</td>
</tr>
<tr>
<td>British Telecom 6 Pole Plug Flat/Round, Solid/Stranded</td>
<td>BT 6 Pole</td>
<td>PA2032</td>
</tr>
<tr>
<td>RJ45, AMP/Molex Connectors for dia. Cable 6.0mm Dia. Round, Shielded (STP)</td>
<td>RJ45 STP AMP &amp; Molex, 6.0mm dia. cable</td>
<td>PA2674</td>
</tr>
</tbody>
</table>

CrimpALL® Interchangeable Die Sets for Specialty Crimpers

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ45 WE/SS &amp; RGG/RGG Quad CATV “F” UTP 4-Pair &amp; RGG/RGG Quad</td>
<td>RJ45 WE/SS 8-pin &amp; 0.360” (9.1mm) HEX/0.324” (8.2mm) HEX</td>
<td>PA8045 PA1387</td>
</tr>
<tr>
<td>For standard RJ45 WE/SS Modular Plugs &amp; 1-piece RGG/RGG Quad CATV “F” conn.</td>
<td>PA2687</td>
<td></td>
</tr>
</tbody>
</table>
## CrimpALL® Interchangeable Die Sets for Coaxial Connectors

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CABLE TYPE</th>
<th>CONNECTION</th>
<th>CRIMP SIZES</th>
<th>TOOL WITH DIE</th>
<th>DIE ONLY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG58, RG59, RG62AU</td>
<td>RG58, RG59, RG62AU</td>
<td>BNC/TNC and 3 Piece</td>
<td>0.256&quot; (6.5mm), 0.213&quot; (5.4mm), 0.068&quot; (1.7mm) HEX</td>
<td>PA8001</td>
<td>PA2034</td>
<td>Common 2-piece and 3-piece BNC/TNC</td>
</tr>
<tr>
<td>RG174, RG59/62, mini-coaxial 75-ohm</td>
<td>RG174, RG59/62, mini-coaxial 75-ohm</td>
<td>BNC/TNC, Mini-UHF</td>
<td>0.255&quot; (6.5mm), 0.197&quot; (5.0mm), 0.178&quot; (4.5mm), 0.068&quot; (1.7mm) HEX &amp; 0.042&quot; (1.0mm) SQ</td>
<td>PA8002</td>
<td>PA2648</td>
<td>Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)</td>
</tr>
<tr>
<td>RG59, RG6, Belden 8281, Belden 1694A</td>
<td>RG59, RG6, Belden 8281, Belden 1694A</td>
<td>BNC/TNC, CATV F Type</td>
<td>0.234&quot; (6.2mm), 0.255&quot; (6.5mm), 0.068&quot; (1.7mm) HEX</td>
<td>PA8003</td>
<td>PA2649</td>
<td>Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)</td>
</tr>
<tr>
<td>RG6, Belden 1694, Belden 1694A</td>
<td>RG6, Belden 1694, Belden 1694A</td>
<td>BNC/TNC, True 75-ohm</td>
<td>0.278&quot; (7.0mm), 0.275&quot; (6.9mm), 0.068&quot; (1.7mm) HEX &amp; 0.042&quot; (1.0mm) SQ</td>
<td>PA8004</td>
<td>PA2657</td>
<td>Common 3-piece BNC/TNC (Kings &amp; ADC HDTV)</td>
</tr>
<tr>
<td>RG58, Mini-59, RG174, small coaxial</td>
<td>RG58, Mini-59, RG174, small coaxial</td>
<td>SMA, SMB, Mini-59 BNC/TNC, Mini-UHF</td>
<td>0.128&quot; (3.2mm), 0.213&quot; (5.4mm), 0.178&quot; (4.5mm), 0.068&quot; (1.7mm) HEX &amp; 0.042&quot; (1.0mm) SQ</td>
<td>PA8005</td>
<td>PA2653</td>
<td>Common 2-piece and 3-piece SMA/SMB/BNC/TNC &amp; Mini-UHF</td>
</tr>
<tr>
<td>RG58, RG174, AT&amp;T 735, 50 and 75-ohm</td>
<td>RG58, RG174, AT&amp;T 735, 50 and 75-ohm</td>
<td>BNC/TNC, Mini-UHF</td>
<td>0.213&quot; (5.4mm), 0.178&quot; (4.5mm), 0.068&quot; (1.7mm) HEX &amp; 0.042&quot; (1.0mm) SQ</td>
<td>PA8006</td>
<td>PA2046</td>
<td>50/75 ohm small 2-piece &amp; 3-piece BNC/TNC (Kings, ADC, etc.)</td>
</tr>
<tr>
<td>RG59, RG62, Belden 8281, 50 and 75-ohm</td>
<td>RG59, RG62, Belden 8281, 50 and 75-ohm</td>
<td>BNC/TNC and Mini-UHF</td>
<td>0.315&quot; (8.0mm), 0.252&quot; (6.4mm), 0.068&quot; (1.7mm) HEX</td>
<td>PA8007</td>
<td>PA2047</td>
<td>75 ohm 2-piece &amp; 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)</td>
</tr>
<tr>
<td>RG174, RG179 and Small Cable Connection</td>
<td>RG174, RG179 and Small Cable Connection</td>
<td>BNC/TNC</td>
<td>0.178&quot; (4.5mm), 0.128&quot; (3.2mm), 0.068&quot; (1.7mm) HEX</td>
<td>PA8008</td>
<td>PA2051</td>
<td>Common 2-piece and 3-piece BNC/TNC/SM/A-SMB</td>
</tr>
<tr>
<td>RG6 and RG6 Quad, Belden 1694A</td>
<td>RG6 and RG6 Quad, Belden 1694A</td>
<td>BNC and CATV F Type &amp; HDTV</td>
<td>0.360&quot; (9.1mm), 0.324&quot; (8.2mm), 0.068&quot; (1.7mm) HEX</td>
<td>PA8012</td>
<td>PA2045</td>
<td>Common 2-piece and 3-piece BNC/TNC and CATV F Type 2-piece</td>
</tr>
<tr>
<td>RG59, RG6 Video Cable</td>
<td>RG59, RG6 Video Cable</td>
<td>CATV F Type</td>
<td>0.346&quot; (8.8mm), 0.319&quot; (8.2mm), 0.256&quot; (6.5mm) HEX</td>
<td>PA8013</td>
<td>PA2042</td>
<td>Crimps Ferrules or Sleeves Only</td>
</tr>
<tr>
<td>RG8, RG11, RG213</td>
<td>RG8, RG11, RG213</td>
<td>N-Type</td>
<td>0.429&quot; (10.9mm), 0.100&quot; (2.54mm), 0.080&quot; (2.03mm) HEX</td>
<td>PA8014</td>
<td>PA2039</td>
<td>Common 2-piece and 3-piece &quot;N&quot; Type (Kings, ADC, Amphenol, etc.)</td>
</tr>
<tr>
<td>RG8, RG11, RG213, RG216</td>
<td>RG8, RG11, RG213, RG216</td>
<td>N-Type, MS39012 Type</td>
<td>0.415&quot; (10.5mm), 0.095&quot; (2.4mm) HEX</td>
<td>PA8015</td>
<td>PA2656</td>
<td>Crimps Pins and Ferrules</td>
</tr>
<tr>
<td>Belden 1855A, 1865A, 1505A, 1505F, 1694A, 1694F, 179DT</td>
<td>Belden 1855A, 1865A, 1505A, 1505F, 1694A, 1694F, 179DT</td>
<td>HDV BNC/TNC True 75-ohm</td>
<td>0.178&quot; (4.5mm), 0.255&quot; (6.5mm), 0.278&quot; (7.0mm), 0.068&quot; (1.7mm), 0.041&quot; (1.0mm) HEX</td>
<td>PA8049</td>
<td>PA2699</td>
<td>Kings, ADC, B&amp;L, Trompeter, Amphenol, Switchcraft</td>
</tr>
</tbody>
</table>

*Teflon® is a registered trademark of Dupont*
### CrimpALL® Interchangeable Die Sets for Insulated Terminal Crimpers

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulated Terminals and Lugs</td>
<td>PA8021</td>
<td>PA2035</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 22-10 AWG (.34 - 6 mm²)</td>
<td></td>
<td>For Large Professional Terminals (Panduit, T &amp; B, etc.)</td>
</tr>
<tr>
<td>12-10 (Yellow), 16-14 (Blue), 22-18 (Red), (6-4 / 2.5 / 1.5 / .34 - .75 mm²)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulated Terminals and Lugs</td>
<td>PA8022</td>
<td>PA2040</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 22-12 AWG (.34 - 4 mm²)</td>
<td></td>
<td>For Standard Commercial Terminals (Hardware Store Brands)</td>
</tr>
<tr>
<td>12-10 (Yellow), 16-14 (Blue), 22-18 (Red), (4/1.5 / 2.5 / .34 - .75 mm²)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulated Terminals and Lugs</td>
<td>PA8023</td>
<td>PA2029</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 26-14 AWG (.10 - 2.5 mm²)</td>
<td></td>
<td>For Smaller Wire Barrel Terminals</td>
</tr>
<tr>
<td>16-14 (Blue), 22-18 (Red), 22-26 (Yellow) (1.5 - 2.5 / .34 - .75 / .34 - .10 mm²)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CrimpALL® Interchangeable Die Sets for Non-Insulated Terminal Crimpers

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Insulated Terminals and Lugs</td>
<td>PA8024</td>
<td>PA2031</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 22-8 AWG (.34 - .10 mm²)</td>
<td></td>
<td>For Standard Commercial Terminals</td>
</tr>
<tr>
<td>10-8 / 14-12 / 18-20 (6 - 10 / 2.5 - 4 / .75 - 1.5 / .34 - .50 mm²)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Barrel Non-Insulated Terminals, Narrow Lugs and Power Contacts</td>
<td>PA8026</td>
<td>PA2033</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 22-10 AWG (.34 - 6 mm²), F Type*</td>
<td></td>
<td>For Standard Commercial Terminals</td>
</tr>
<tr>
<td>22-18 / 16-14 / 12-10 (.34 - .75 / 1.5 - 2.5 / 4-6 mm²)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Barrel Non-Insulated Terminals, Wide Lugs and Power Contacts</td>
<td>PA8027</td>
<td>PA2096</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 22-14 AWG (.34 - 2.5 mm²), F Type*</td>
<td></td>
<td>For Standard Commercial Terminals</td>
</tr>
<tr>
<td>16-14 / 22-18 (1.5 - 2.5 / .34 - .75 mm²)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Barrel D-Sub Contact Pins RS-232</td>
<td>PA8029</td>
<td>PA2097</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 28-20 AWG (.08 - .50 mm²), F Type*</td>
<td></td>
<td>For Standard D-sub Pins Only; not for HD D-subs</td>
</tr>
<tr>
<td>28-24 / 22-20 (.08 - .2 / .34 - .5 mm²)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CrimpALL® Interchangeable Die Sets for Wire Ferrules

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulated &amp; Non-Insulated Wire Ferrules</td>
<td>PA8025</td>
<td>PA2095</td>
</tr>
<tr>
<td>Solid or Stranded Wire, 22-10 AWG (.34 - 6 mm²)</td>
<td></td>
<td>For DIN or US Type Wire Ferrules</td>
</tr>
<tr>
<td>22-20 / 18-16 / 14-12 / 10 (.34 - .55 / .75 - 1.5 / 2.5 - 4 / 6 mm²)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EDAC/ELCO Crimper

Crimp tool for broadcast professionals terminating loose 28-18 AWG (.08-75 mm²) 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

**SPECIFICATIONS**

| Weight | 19 oz. (538 g) |

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1670</td>
<td>EDAC/ELCO Crimper</td>
</tr>
</tbody>
</table>
Open Barrel Contact Pin Crimper

Professional crimping tool for open-barrel box and round connector contacts with a wire range of 30-18 AWG (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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1645</td>
<td>Open Barrel Contact Pin Crimper</td>
</tr>
</tbody>
</table>

Open Barrel Contact Pin Crimper

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1631</td>
<td>Open Barrel Contact Pin Crimper</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>45504</td>
<td>45504</td>
<td>Kwik Cycle 9&quot; Crimp Frame</td>
</tr>
</tbody>
</table>

See our comprehensive line of connectors on pages 364 and 373.

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

<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>DESCRIPTION</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-10 AWG</td>
<td>Color Coded nests for easy identification</td>
<td>Standard insulated terminals, ring tongue, spade lug, slide on and butt splices</td>
</tr>
<tr>
<td>22-10 AWG</td>
<td>Color Coded nests for easy identification</td>
<td>for fully insulated slide-on style connectors AMP Ultrafast™ style</td>
</tr>
<tr>
<td>26-16 AWG</td>
<td>For mini insulated terminals with smaller wire barrels. Ring tongue, spade, slide on and butt splices</td>
<td></td>
</tr>
<tr>
<td>22-8 AWG</td>
<td>For non-insulated terminals and splices</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>UPC NO.</th>
<th>CAT. NO.</th>
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</thead>
<tbody>
<tr>
<td>45500</td>
<td>45500</td>
<td>45509</td>
<td>45509</td>
</tr>
<tr>
<td>45501</td>
<td>45501</td>
<td>45570</td>
<td>45570</td>
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<tr>
<td>45565</td>
<td>45565</td>
<td></td>
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</tr>
<tr>
<td>45505</td>
<td>45505</td>
<td>45507</td>
<td>45507</td>
</tr>
</tbody>
</table>

The images provided are not described in the text.
Heat Gun

- Electronic variable heat control ranging from 250-1100°F (120-590°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**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>120VAC 60 Hz</td>
<td>7.5 amps max.</td>
<td>1200 watts max.</td>
</tr>
</tbody>
</table>

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

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

**CAT. NO.** | **DESCRIPTION**
---|---
PA1700 | Heat gun

Cable Tie Gun

- 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

- 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® HDT™ Cable Prep Tool

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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1192</td>
<td>00072</td>
<td>Cable Prep Tool</td>
</tr>
</tbody>
</table>

24 AWG HDMI® Field Terminating Cable

- Use with Greenlee® HDT™ Connectors
- Make premium HDMI® High Speed with Ethernet cables
- Supports HDMI® 1.4 features: 3D, Ethernet and Audio Return
- 100' 24 AWG HDT™ 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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTHD24-100</td>
<td>00079</td>
<td>100’ 24 AWG Field Terminating Cable</td>
</tr>
</tbody>
</table>

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 HDT™ Connector Components
- Use With Greenlee® 24 AWG HDMI® Field Terminating Cable only
- Includes main connector terminal block and wire guides
- Guides are mated and color coded for 24 AWG HDMI® Field Terminating cable
- Make custom length, premium HDMI® High Speed with Ethernet cables

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDCN24-10</td>
<td>00073</td>
<td>Field Terminating Connectors (10 Pack)</td>
</tr>
<tr>
<td>HDCN24-50</td>
<td>00074</td>
<td>Field Terminating Connectors (50 Pack)</td>
</tr>
</tbody>
</table>

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

- 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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4017</td>
<td>00099</td>
<td>Pro Deluxe Kit</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4019</td>
<td>00101</td>
<td>Pro Kit</td>
</tr>
</tbody>
</table>

**Pro HDMI® Cable Tester**

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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1599</td>
<td>00075</td>
<td>Pro Cable Tester</td>
</tr>
</tbody>
</table>

**HDFT™ Die Set**

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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>UPC NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4003</td>
<td>00098</td>
<td>Die Set</td>
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</tbody>
</table>

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