

INSTRUCTION MANUAL



Manufacturer:
Greenlee®

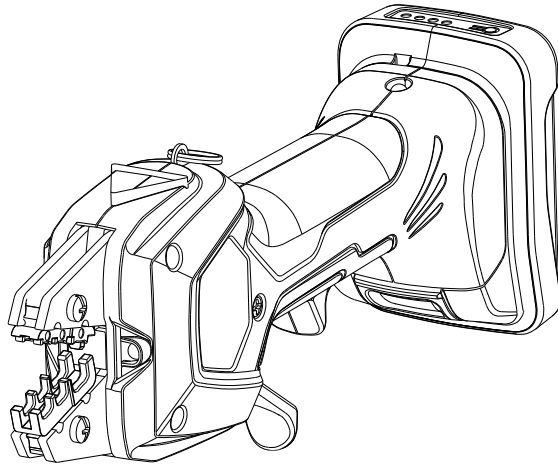
Product Name:
Greenlee® Battery-Powered Micro Ferrule Crimper Tool Kit with 13.8 mm Jaw - 110V

Manufacturer Part Number:
EK50ML13811

▶ Click here for more details on the Greenlee® Battery-Powered Micro Ferrule Crimper Tool Kit with 13.8 mm Jaw - 110V



Serial Number



EK50ML Battery-powered Crimping Tool



Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Register this product at www.greenlee.com

52068455 REV 4

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10/20

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EK50ML Battery-powered Crimping Tool

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Description

The EK50ML Battery-powered Crimping Tool is a hand-held, self-contained crimping tool intended to crimp cable using Greenlee's Kwik Cycle® 9 and CrimpALL® die sets as well as some competitors' die sets.

U.S. patent pending.

Safety

Safety is essential in the use and maintenance of Greenlee tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe operation and maintenance procedures for the following Greenlee tool:

EK50ML Battery-powered Crimping Tool

Keep this manual available to all personnel.

All specifications are nominal and may change as design improvements occur. Greenlee Tools, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

CrimpALL and Kwik Cycle are registered trademarks of Greenlee Tools, Inc.

Teflon is a registered trademark of Dupont.

KEEP THIS MANUAL

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IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

⚠ DANGER

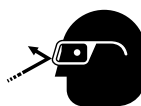
Immediate hazards which, if not avoided, **WILL** result in severe injury or death.

⚠ WARNING

Hazards which, if not avoided, **COULD** result in severe injury or death.

⚠ CAUTION

Hazards or unsafe practices which, if not avoided, **MAY** result in injury or property damage.



⚠ WARNING

Wear eye protection when operating or servicing this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.



⚠ WARNING

Do not use solvents or flammable liquids to clean the tool body. Solvents or flammable liquids could ignite and cause serious injury or property damage.

⚠ WARNING

An incomplete crimp can cause a fire.

Use proper die, connector, and cable combinations. Improper combinations can result in an incomplete crimp.

Failure to observe this warning could result in severe injury or death.



⚠ WARNING

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Failure to observe this warning could result in severe injury or death.



⚠ WARNING

Pinch points:

- Remove battery before changing dies, adapters, or jaws.
- Keep hands away from the crimping tool head when crimping.

Failure to observe these warnings could result in severe injury or death.



⚠ WARNING

Electric shock hazard:

This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment.

Failure to observe this warning could result in severe injury or death.

⚠ WARNING

Do not dispose of batteries in a fire. They will vent fumes and may explode.

Failure to observe this warning could result in severe injury from harmful fumes or burns from flying debris.

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EK50ML Battery-powered Crimping Tool

IMPORTANT SAFETY INFORMATION

⚠ WARNING

Inspect tool and dies before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.

Failure to observe this warning could result in severe injury or death.

⚠ CAUTION

- Allow approximately 3 to 5 minutes of time to cool down as tool automatically switches off when it gets too hot.
- Do not secure this tool in a vise. This tool is designed for hand-held operation.
- This tool may be used in damp or wet environments; however, air-drying is recommended before use if the tool becomes soaked. Damage may result when the tool is operated prior to thorough drying when electrical components are soaked.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions may result in injury or property damage.

⚠ CAUTION

- Do not store the battery at more than 122 °F (50 °C) or less than -4 °F (-20 °C). Damage to the battery can result.
- Do not use another manufacturer's charger. Other manufacturers' chargers may overcharge and damage the battery.
- Do not attempt to open the battery. It contains no user-serviceable parts.

Failure to observe these precautions may result in injury or property damage.

⚠ CAUTION

Do not perform any service or maintenance other than as described in this manual. Injury or damage to the tool may result.

Failure to observe this precaution may result in injury and property damage.

⚠ CAUTION

Do not allow anything to contact the battery terminals.

- Do not immerse the batteries in liquid. Liquid may create a short circuit and damage the battery. If batteries are immersed, contact your service center for proper handling.
- Do not place the battery into a pocket, tool pouch, or tool box with conductive objects. Conductive objects may create a short circuit and damage the battery.
- Do not place a battery on moist ground or grass. Moisture may create a short circuit and damage the battery.

Failure to observe these precautions may result in injury or property damage.

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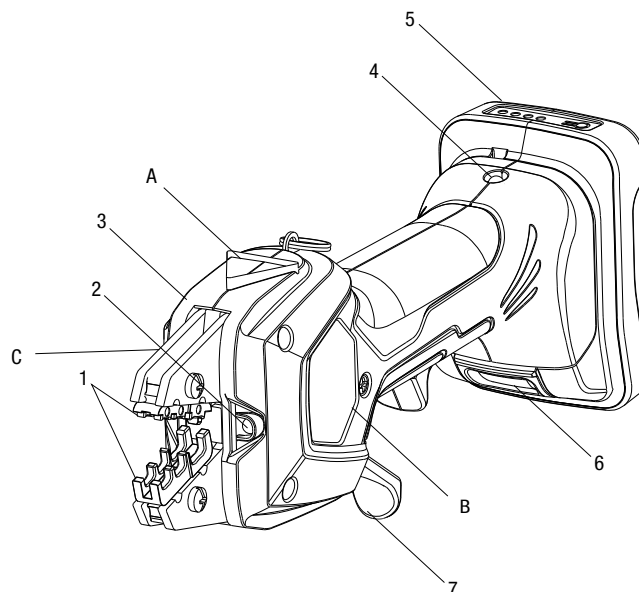
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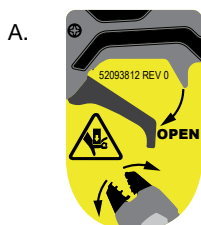
Identification

1. Crimping Dies
2. LED Work Light (white)
3. Crimping Head
4. LED Indicator (red)
5. Battery Cartridge
6. Battery Lock
7. Trigger



Decals

- A. Manual Jaw Release
- B. Identification
- C. Warning



Note: Keep all decals clean and legible, and replace when necessary.

Specifications

Crimping Tool

Length (with battery).....	9.93" (252.22 mm)
Width	2.5" (63.5 mm)
Depth.....	3.6" (91.44 mm)
Weight.....	2.18 lb (0.98 kg)
Crimping Force.....	1.53 tons (15 kN)
Recommended Operating Temperature Range.....	14 °F to 104 °F (–10 °C to 40 °C)

Battery

Charging Time	40 min
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52068605	Battery, 10.8V 1.5 Ah li-ion (16.2 Wh)
52068603	Charger, 10.8V li-ion batteries, 110V
52068604	Charger, 10.8V li-ion batteries, 230V

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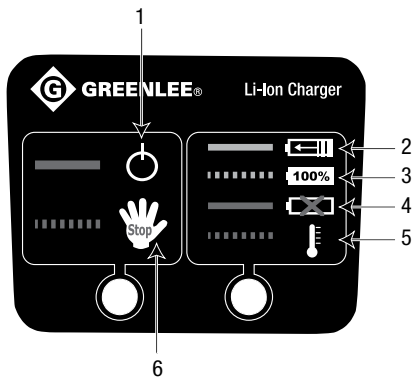


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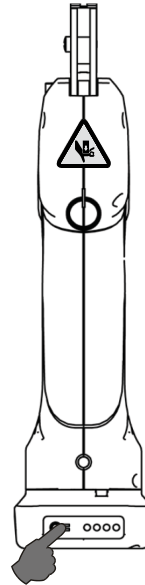
Battery and Charger

⚠ CAUTION

Remove battery only after unplugging charger from socket.
Failure to observe this precaution may result in injury and property damage.



1. Charger is plugged into socket.
2. Battery is charging.
3. Battery is fully charged.
4. Battery is defective.
5. Battery is too hot or too cold.
6. Charger is defective.



% Charge Remaining

100%	⓪ ○○○○
75%	⓪ ○○○●
50%	⓪ ○○●●
25%	⓪ ○●●●
0%	⓪ ●●●●

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Operation

⚠ WARNING

Inspect tool and dies before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.

Failure to observe this warning could result in severe injury or death.

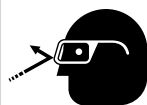


⚠ WARNING

Electric shock hazard:

This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment.

Failure to observe this warning could result in severe injury or death.



⚠ WARNING

Wear eye protection when operating or servicing this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.



⚠ WARNING

Pinch points:

- Remove battery before changing dies, adapters, or jaws.
- Keep hands away from the crimping tool head when crimping.

Failure to observe these warnings could result in severe injury or death.

⚠ WARNING

An incomplete crimp can cause a fire.

Use proper die, connector, and cable combinations. Improper combinations can result in an incomplete crimp.

Failure to observe these warnings could result in severe injury or death.

⚠ CAUTION

- Allow approximately 3 to 5 minutes of time to cool down as tool automatically switches off when it gets too hot.
- Do not secure this tool in a vise. This tool is designed for hand-held operation.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions may result in injury or property damage.

Charging the Battery

Read the instructions supplied with the battery charger.

LED Work Light (white)

This LED automatically turns on when the trigger is pulled. It remains on for 10 seconds after the trigger is released.

LED Indicator (red)

This tool is equipped with a special circuit board incorporating several important features to inform the user about the current status of the unit. The LED signals in the following cases:

		When	What it means
	2 x	After inserting the battery	Battery is inserted in tool
	20 sec	After working cycle	Low battery
	20 sec/2 Hz		Contact Greenlee service
	20 sec/5 Hz		Tool has become too hot
	1 x	After interruption	Error – manual interruption of crimp cycle prior to completion
	3 x	After working cycle	Error – automatic opening of tool due to exceeding crimp force

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EK50ML Battery-powered Crimping Tool

Operation (cont'd)

Installing Dies

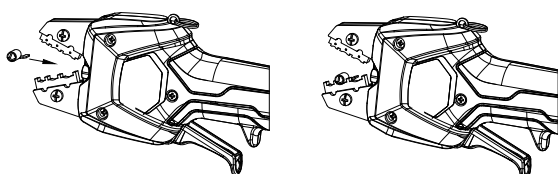
1. Select the proper dies for the intended crimp.
2. Slide the die into the crimping head and secure with screw.
3. Properly position the second die. Repeat Step 2.

Preparing Cable

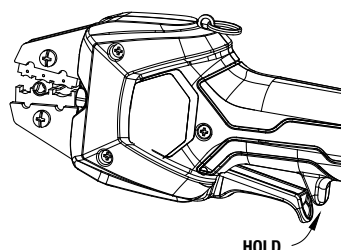
Follow the lug manufacturer's instructions for appropriate cable strip length.

Crimping Cable

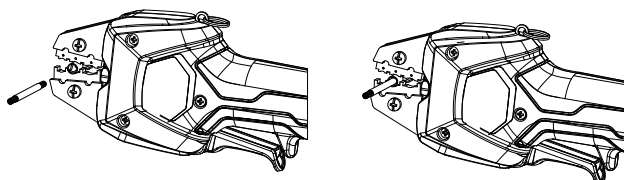
1. Insert the connector into the appropriate slot of the crimping die.



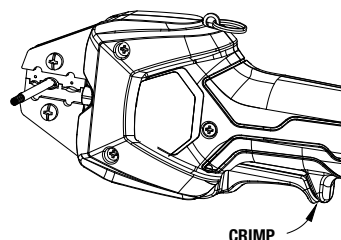
2. Pull the trigger midway such that the jaws grab and hold the connector in place.



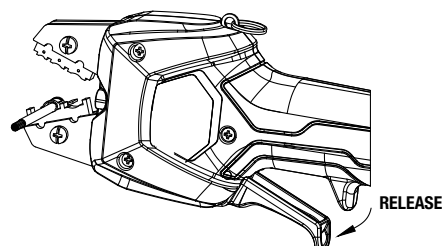
3. Insert the stripped wire into the connector.



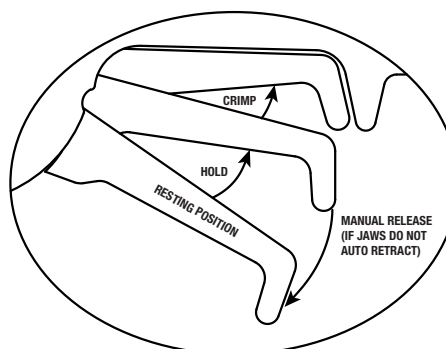
4. Pull trigger all the way down to complete the crimp.



5. The crimp cycle will automatically stop when complete. Release the trigger upon crimp completion and the jaws will automatically retract.



Note: The jaws may be manually released by pushing the trigger outward. This may be necessary if, for example, an incorrectly-sized connector has been inserted into the die opening.



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Maintenance

	<p>⚠ WARNING</p> <p>Wear eye protection when operating or servicing this tool.</p> <p>Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.</p>
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	<p>⚠ WARNING</p> <p>Do not use solvents or flammable liquids to clean the tool body. Solvents or flammable liquids could ignite and cause serious injury or property damage.</p>
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	<p>⚠ WARNING</p> <p>Pinch points:</p> <ul style="list-style-type: none">• Remove battery before changing dies, adapters, or jaws.• Keep hands away from the crimping tool head when crimping. <p>Failure to observe these warnings could result in severe injury or death.</p>
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Daily

Before use:

1. Inspect the tool for wear or damage, such as cracks, gouges, or chips.
2. Inspect the tool for damage.

After use:

1. Use a damp cloth and mild detergent to clean the housing. Allow the housing to dry.
2. Place the tool in the carrying case and store in a cool, dry place.
3. If necessary, recharge the batteries. Refer to the instructions supplied with the battery charger.

Monthly

Thoroughly clean all surfaces.

Annually or After 35,000 Crimps

Send the tool to a Greenlee Authorized Service Center for inspection.

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Troubleshooting

Before You Begin

1. Make sure that the battery is charged. Recheck the battery after several minutes to make sure the battery is holding its charge.
2. Use a **nonflammable** contact cleaner or pencil eraser to clean the electrical contacts on the battery and tool.
3. Reinstall the battery and check the tool again.

Problem	Possible Cause	Probable Remedy
Tool is inoperative.	Continuous use causes tool to become too hot and automatically switch off.	Allow approximately 3 to 5 minutes of time to cool down.
	Dirt, contaminants, etc., in jaw area of tool.	Clean tool.
	Tool components worn or damaged.	Return tool to a Greenlee Authorized Service Center.
	The crimp did not complete	Engage manual release and check if the connector is correct. Cut off old connector and perform a new crimp with the correct connector.
Motor is inoperative.	Low or uncharged battery.	Try known charged battery. Inoperative battery may be discharged or may have reached life expectancy.
	Broken switch components.	Return tool to a Greenlee Authorized Service Center.
LED glows for 20 seconds.	Battery charge low.	Charge or replace battery.

Note: For Warranty Service or Repair, contact Greenlee customer service at 800-435-0786.

Service

Do not attempt to open tool, it contains no user serviceable parts.

Disposal

Do not throw away in trash. Parts of these tools contain valuable materials and can be recycled. There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations.

Contact your local waste management authority for more information.



Do not discard this product or throw away!

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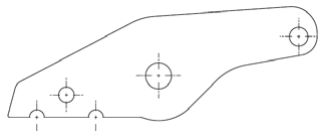
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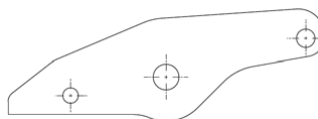
Die Holders

For EK50ML120GL



For Panduit and
T&B die sets














For EK50ML138GL



For Greenlee
CrimpALL® and
Kwik Cycle® dies;
some competitor
dies (Ideal)

CrimpALL® Interchangeable Die Sets

For Coaxial Connectors

DESCRIPTION			DIE CAT. NO.	REMARKS
CABLE TYPE	CONNECTION	CRIMP SIZES		
 RG58, RG59, RG62AU	BNC/TNC and 3 Piece	0.256" (6.5 mm), 0.213" (5.4 mm), 0.068" (1.7 mm) HEX	PA2034	Common 2-piece and 3-piece BNC/TNC
 RG174, RG59/62, mini-coaxial 75 Ω	HDTV SMA, True 75 Ω BNC/TNC, Mini-UHF	0.255" (6.5 mm), 0.197" (5.0 mm), 0.178" (4.5 mm), 0.068" (1.7 mm) HEX & 0.042" (1.0 mm) SQ	PA2648	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
 RG59, RG6, Belden 8281, Belden 1694A	HDTV BNC/TNC/CATV "F" True 75 Ω	0.324" (8.2 mm), 0.255" (6.5 mm), 0.068" (1.7 mm) HEX & 0.052" (1.3 mm), 0.042" (1.0 mm) SQ	PA2649	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
 RG6, Belden 1694, Belden 1694A	HDTV BNC/TNC True 75 Ω	0.278" (7.0 mm), 0.275" (6.9 mm), 0.068" (1.7 mm) HEX & 0.042" (1.0 mm) SQ	PA2657	Common 3-piece BNC/TNC (Kings & ADC HDTV)
 RG58, Mini-59, RG-174, small coaxial	SMA, SMB, Mini-59 BNC/TNC, Mini-UHF	0.128" (3.2 mm), 0.213" (5.4 mm), 0.197" (5.0 mm), 0.178" (4.5 mm), 0.068" (1.7 mm) HEX & 0.042" (1.0 mm) SQ	PA2653	Common 2-piece and 3-piece SMA/SMB/ BNC/TNC & Mini-UHF
 RG58, RG174, AT&T 735, 50 and 75 Ω	Thinnet, BNC/TNC, Mini-UHF	0.213" (5.4 mm), 0.178" (4.5 mm) 0.068" (1.7 mm) HEX & 0.042" (1.0 mm) SQ	PA2046	50/75 ohm small 2-piece & 3-piece BNC/TNC (Kings, ADC, etc.)
 RG59, RG62, Belden 8281, 50 and 75 Ω	BNC/TNC and Mini-UHF	0.315" (8.0 mm), 0.252" (6.4 mm), 0.068" (1.7 mm), HEX 0.042" (1.0 mm) SQ	PA2047	75 ohm 2-piece & 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
 RG174, RG179 and Small Cable Connection	BNC/TNC	0.178" (4.5 mm), 0.128" (3.2 mm), 0.068" (1.7 mm) HEX	PA2051	Common 2-piece and 3-piece BNC/TNC/SMA/SMB
 RG6 and RG6 Quad, Belden 1694A	BNC and CATV "F" Type & HDTV	0.360" (9.1 mm), 0.324" (8.2 mm), 0.068" (1.7 mm) HEX	PA2045	Common 2-piece and 3-piece BNC/TNC and CATV "F" 2-piece
 RG59, RG6 Video Cable	CATV "F" Type	0.346" (8.8 mm), 0.319" (8.2 mm), 0.256" (6.5 mm) HEX	PA2042	Crimps Ferrules or Sleeves Only
 RG8, RG11, RG213	N-Type	0.429" (10.9 mm), 0.100" (2.54 mm), 0.080" (2.03 mm) HEX	PA2656	Common 2-piece and 3-piece "N"-Type (Kings, ADC, Amphenol, etc.)
 RG8, RG11, RG213, RG216	N-Type, MS39012 Type	0.415" (10.5 mm), 0.095" (2.4 mm) HEX	PA2039	Crimps Pins and Ferrules
 Belden 1855A, 1865A, 1505A, 1505F, 1694A, 1694F, 179DT	HDYV BNC/TNC True 75 Ω	0.178" (4.5 mm), 0.255" (6.5 mm), 0.278" (7.0 mm), 0.068" (1.7 mm), 0.041" (1.0) HEX	PA2699	Kings, ADC, B&L, Trompeter, Amphenol, Switchcraft

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






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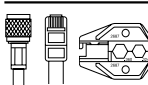

EK50ML Battery-powered Crimping Tool

CrimpALL® Interchangeable Die Sets (cont'd)

For Modular Plugs

DESCRIPTION				DIE CAT. NO.	REMARKS	
CABLE TYPE	CONNECTION	CRIMP SIZES				
	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed WE and SS	PA2061	Western Electric (WE)/Stewart Connector (SS)	
		RJ11 & RJ12 - 6P6C, 6P4C, 6P2C	Flat/Round, Solid/Stranded	RJ11 & RJ12 Unkeyed WE and SS	PA2062	Western Electric (WE)/Stewart Connector (SS)
		RJ22 Handset - 4P4C (4 Pin)	Flat/Round, Solid/Stranded	4 Pin Handset WE and SS	PA2063	Western Electric (WE)/Stewart Connector (SS)
			RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed AMP	PA2064
	RJ50 - 10P10C (10 Pin)	Flat/Round, Solid/Stranded	RJ50 Unkeyed WE and SS	PA2068	Virginia Plastics (VP)	
		British Telecom 6 Pole Plug	Flat/Round, Solid/Stranded	BT 6 Pole	PA2032	British Telecom Plugs Only
		RJ45, Molex Connectors for 5.0 dia. Cable	5.0mm Dia. Round, Shielded (STP)	RJ45 STP Molex Connectors, 5.0 mm dia. cable	PA2673	Molex
		RJ45, AMP/Molex Connectors for dia. Cable	6.0mm Dia. Round, Shielded (STP)	RJ45 STP AMP & Molex, 6.0 mm dia. cable	PA2674	AMP (Tyco) Inc. & Molex

For Specialty Crimpers

DESCRIPTION				DIE CAT. NO.	REMARKS
CABLE TYPE	CONNECTION	CRIMP SIZES			
	RJ45 WE/SS & RG6/RG6 Quad CATV "F"	UTP 4-Pair & RG6/ RG6 Quad	RJ45 WE/SS 8-pin & 0.360" (9.1mm) HEX/ 0.324" (8.2 mm) HEX	PA2687	For standard RJ45 WE/SS Modular Plugs & 1-piece RG6/RG6 Quad CATV "F" conns.
	HDMI Equivalent	HDMI	24 AWG connector components, 24 AWG HDMI cable	PA4003	<ul style="list-style-type: none">• Precision cast 4140 steel for durability• High Tensile steel cutting blades for long life• Error-proof design avoids misalignment

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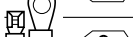

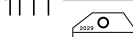
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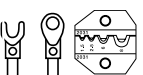
EK50ML Battery-powered Crimping Tool

CrimpALL® Interchangeable Die Sets (cont'd)

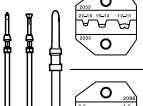
For Insulated Terminal Crimpers

DESCRIPTION				DIE CAT. NO.	REMARKS
CABLE TYPE	CONNECTION	CRIMP SIZES			
	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-10 AWG (0.34-6 mm ²)	12-10 (Yellow), 16-14 (Blue), 22-18 (Red), (6-4 / 2.5-1.5 / 0.34-0.75 mm ²)	PA2035	For Large Professional Terminals (Panduit, T & B, etc.)
	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-12 AWG (0.34-4 mm ²)	12-10 (Yellow), 16-14 (Blue), 22-18 (Red), (4/1.5-2.5 / 0.34-0.75 mm ²)	PA2040	For Standard Commercial Terminals (Hardware Store Brands)
	Insulated Terminals and Lugs	Solid or Stranded Wire, 26-14 AWG (0.10-2.5 mm ²)	16-14 (Blue), 22-18 (Red), 22-26 (Yellow), (1.5-2.5 / 0.34-0.75 / 0.34-0.10 mm ²)	PA2029	For Smaller Wire Barrel Terminals

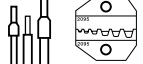
For Non-Insulated Terminal Crimpers

DESCRIPTION				DIE CAT. NO.	REMARKS
CABLE TYPE	CONNECTION	CRIMP SIZES			
	Non-Insulated Terminals and Lugs	Solid or Stranded Wire, 22-8 AWG (0.34-0.10 mm²)	10-8 / 14-12 / 18-16 / 22-20 (6-10 / 2.5-4 / 0.75-1.5 / 0.34-0.50 mm²)	PA2031	For Standard Commercial Terminals

For Open Barrel, Box and Terminal Systems

DESCRIPTION				DIE CAT. NO.	REMARKS
CABLE TYPE	CONNECTION	CRIMP SIZES			
	Open Barrel Non-Insulated Terminals, Narrow Lugs and Power Contacts	Solid or Stranded Wire, 22-10 AWG (0.34-6 mm ²), F Type*	22-18 / 16-14 / 12-10 (0.34-0.75 / 1.5-2.5 / 4-6 mm ²)	PA2033	For Standard Commercial Terminals
	Open Barrel Non-Insulated Terminals, Wide Lugs and Power Contacts	Solid or Stranded Wire, 22-14 AWG (0.34-2.5 mm ²), F Type*	16-14 / 22-18 (1.5-2.5 / 0.34-0.75 mm ²)	PA2096	For Standard Commercial Terminals
	Open Barrel D-Sub Contact Pins RS-232	Solid or Stranded Wire, 28-20 AWG (0.08-0.50 mm ²), F Type*	28-24 / 22-20 (0.08-0.2 / 0.34-0.5 mm ²)	PA2097	For Standard D-sub Pins Only; not for HD D-sub

For Wire Ferrules

DESCRIPTION				DIE CAT. NO.	REMARKS
CABLE TYPE	CONNECTION	CRIMP SIZES			
	Insulated & Non-Insulated Wire Ferrules	Solid or Stranded Wire, 22-10 AWG (0.34-6 mm ²)	22-20 / 18-16 / 14-12 / 10 (0.34-0.55 / 0.75-1.5 / 2.5-4 / 6 mm ²)	PA2095	For DIN or US Type Wire Ferrules

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