



# Multi-Function Network Cable Crimping Tool

## SML-368F

Crimping · Cutting · Stripping · Single-Ended Testing · Wire Mapping



English User Manual

V1.0 Official Release

Release Date

July 24, 2026

# Document Information

| Item             | Details                                                         |
|------------------|-----------------------------------------------------------------|
| Document Title   | SML-368F Multi-Function Network Cable Crimping Tool User Manual |
| Applicable Model | SML-368F                                                        |
| Document Number  | SML-368F-MN-EN                                                  |
| Version          | V1.0                                                            |
| Document Status  | Official Release                                                |
| Release Date     | July 24, 2026                                                   |
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## About This Manual

This manual applies to the SML-368F Multi-Function Network Cable Crimping Tool. It describes the product structure, specifications, operating procedures, test indications, safety and maintenance requirements, troubleshooting, and package contents.

## Read and Retain

Read this manual completely before first use and follow all safety instructions. See Chapter 9 for package contents and version information. Retain this manual for future reference.

For product support, call 0769-85011391 or visit [shom.cn](http://shom.cn).

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## Chapter 1

# Product Overview

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### 1.1 How to Use This Manual

- Before first use, read Chapter 4, “Before Use,” and Chapter 7, “Safety and Maintenance.”
- Follow the sequence in Chapter 5 when cutting, stripping, or crimping cable.
- See Chapter 6 when interpreting LED indications. If a result is abnormal, continue to Chapter 8.
- See Chapter 9 to verify package contents or version information.

### 1.2 Product Description

The SML-368F is a multi-function network cable crimping tool designed for network cabling, low-voltage installation, and routine cable maintenance. It combines crimping, cutting, stripping, single-ended testing, and wire mapping in one tool. It can process standard, non-proprietary 8P network plugs and 6P telephone plugs, reducing the number of separate tools required on site.

The main unit can perform a standalone single-ended test. Used with the remote unit, it can perform wire mapping. Testing starts automatically when a network cable is fully inserted into the corresponding test port; no button is required. On the main unit, green indicates a normal result and orange indicates a fault. During wire mapping, LEDs 1–8 on the front of the remote unit display the basic mapping result. The built-in 400 mAh battery charges through a USB Type-C port. The charging indicator is red while charging and turns off when fully charged.

### 1.3 Limitations

**WARNING** Available product information does not state that this tool provides protection for energized circuits or PoE. Before cutting, stripping, crimping, or testing, disconnect the cable from switches, PoE equipment, and all other powered devices.



Figure 1-1 SML-368F operating side

1.4 Main Functions

| Function             | Description                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Crimping             | Supports standard, non-proprietary 8P network plugs and 6P telephone plugs. The 8P crimping position can be switched between CAT.7 and CAT.5/6. |
| Cutting              | Uses the built-in cutter to cut compatible cable.                                                                                               |
| Stripping            | Removes the jacket from compatible cable up to 10 mm in outside diameter.                                                                       |
| Single-ended testing | The main unit performs a basic check of the currently inserted termination.                                                                     |
| Wire mapping         | Connect one end of the cable to the main unit and the other to the remote unit; LEDs 1–8 display the basic mapping result.                      |
| Automatic testing    | Testing starts automatically when the cable is inserted; no button is required.                                                                 |
| LED indications      | Green on the main unit indicates normal and orange indicates a fault; LEDs 1–8 on the remote unit display wire-mapping results.                 |

1.5 Typical Applications

- Network cable termination and modular-plug crimping in structured cabling projects;
- Low-voltage system installation, maintenance, and rapid cable preparation;
- Network cabinet, patch-panel, and on-site patch-cable work;
- Telephone cable and common low-voltage communication cable preparation;
- Basic standalone single-ended checks using the main unit;
- Cable wire mapping using the main and remote units.

## Chapter 2

# Structure and Components

### 2.1 Operating Side



**Figure 2-1** 6P and 8P crimping positions, 8P selector plate, and blades

The operating side carries the markings 6P, 8P, CAT.7, CAT.5/6, and LOCK. A selector plate at the 8P crimping position switches between the two modes; arrows on the tool indicate the corresponding plate positions. Select the correct crimping position and mode for the plug before use. Never force an incompatible plug or a hard object into a crimping die.

| Component / Marking  | Function                                                                                  |
|----------------------|-------------------------------------------------------------------------------------------|
| Handles              | Operate the cutting, stripping, and crimping mechanisms.                                  |
| 8P crimping position | Accepts standard, non-proprietary 8P network plugs.                                       |
| 6P crimping position | Accepts standard, non-proprietary 6P telephone plugs.                                     |
| 8P selector plate    | Moves according to the arrows and labels on the tool to switch between CAT.7 and CAT.5/6. |
| Cable cutter         | Cuts compatible cable and produces a relatively square end.                               |
| Jacket stripper      | Removes the jacket from compatible cable up to 10 mm in outside diameter.                 |
| LOCK latch           | Holds the tool closed for storage.                                                        |

2.2 Reverse Side, End, and Remote Unit



Figure 2-2 Reverse-side components and main/remote test ports

| Component                  | Function                                                                                                                             |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Main-unit test port        | Located on the left when the units are attached. Used for standalone single-ended testing and for one cable end during wire mapping. |
| Remote-unit test port      | Located on the right when the units are attached. Connects to the other cable end during wire mapping.                               |
| Remote unit                | Attaches to the end of the main unit by a rail-and-groove connection. LEDs 1–8 are located on its front.                             |
| LEDs 1–8                   | Correspond to the eight conductors and display wire-mapping results.                                                                 |
| Main-unit status indicator | Green indicates a normal single-ended test result; orange indicates a fault.                                                         |
| Charging indicator         | Red while charging; off when fully charged.                                                                                          |
| USB Type-C charging port   | Charges the built-in battery. Rated input: 5 V / 500 mA.                                                                             |
| Brand / model marking      | Identifies the product as Shomlin / SML-368F.                                                                                        |



Figure 2-3 Main-unit port (left), remote-unit port (right), and rail connection



Figure 2-4 Remote unit front and LEDs 1–8

## Chapter 3

# Specifications

### 3.1 Basic Specifications

Table 3-1 SML-368F basic specifications

| Item                   | Specification                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------|
| Model                  | SML-368F                                                                                        |
| Product category       | Multi-Function Network Cable Crimping Tool                                                      |
| Main functions         | Crimping, cutting, stripping, single-ended testing, and wire mapping                            |
| Compatible plugs       | Standard, non-proprietary 8P network plugs and 6P telephone plugs                               |
| 8P crimping mode       | Move the 8P selector plate to switch between CAT.7 and CAT.5/6                                  |
| Test methods           | Standalone single-ended testing with the main unit; wire mapping with the main and remote units |
| Test start             | Starts automatically when the cable is inserted; no button required                             |
| Indicators             | Main unit: green for normal and orange for fault; remote unit: LEDs 1–8 for wire mapping        |
| Stripping capacity     | Cable outside diameter up to 10 mm                                                              |
| Blade                  | High-strength hardened blade                                                                    |
| Main materials         | ABS and high-carbon steel                                                                       |
| Dimensions (L × W × H) | 17.4 × 7.7 × 3.2 cm                                                                             |
| Net weight             | 400 g                                                                                           |
| Charging port          | USB Type-C                                                                                      |
| Charging input         | 5 V / 500 mA                                                                                    |
| Battery capacity       | 400 mAh                                                                                         |
| Charging time          | Approx. 1 hour                                                                                  |
| Charging indicator     | Red while charging; off when fully charged                                                      |
| Standby time           | Approx. 30 days                                                                                 |
| Operating environment  | Avoid extremely high or low temperatures and high humidity                                      |

**NOTE** Charging and standby times are nominal values. Actual duration varies with the power source, environment, battery condition, and frequency of use.

## 3.2 Ports and Product Markings

- Main-unit test port: used for standalone single-ended testing and for one cable end during wire mapping;
- Remote-unit test port: connects to the other cable end during wire mapping;
- 8P / 6P: identify the crimping positions for standard network and telephone plugs, respectively;
- 8P selector plate: located at the 8P crimping position and moved to select the crimping mode;
- CAT.7 / CAT.5/6: together with the arrows on the tool, identify the two selector-plate positions;
- LOCK: identifies the closed storage position;
- USB Type-C: charging port for the built-in battery.

## Chapter 4

# Before Use

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### 4.1 Visual and Safety Inspection

1. Inspect the housing, handles, blades, crimping dies, ports, and latch for damage.
2. Remove cable-jacket scraps, copper fragments, dust, and other debris from the dies, blades, and test ports.
3. Confirm that the cable is disconnected from switches, PoE equipment, telephone equipment, and every other power source.
4. Stop using the tool if a blade is deformed, a crimping die is loose, a port is damaged, or the tool becomes abnormally hot.
5. Work on a stable, well-lit surface with enough clearance for the handles to move through their full range.

**DANGER** Never cut, strip, crimp, perform a single-ended test, or perform wire mapping on an energized cable. Use appropriate test equipment to confirm that an unknown cable is de-energized before proceeding.

### 4.2 Battery Level and Charging

Before using the LED indicators, single-ended test, or wire-mapping function, make sure the battery has sufficient charge. If necessary, connect the USB Type-C port to a 5 V / 500 mA power source. The nominal charging time is approximately 1 hour. The charging indicator is red while charging and turns off when fully charged.

**CAUTION** Use an undamaged charging cable and a power source that meets the rated input. If the tool becomes unusually hot, emits an odor or smoke, or the housing deforms during charging, disconnect power immediately and stop using it.

### 4.3 Matching the Cable and Plug

1. Use a standard, non-proprietary 8P network plug or 6P telephone plug.
2. Insert an 8P network plug into the 8P crimping position and a 6P telephone plug into the 6P crimping position.
3. Before crimping an 8P network plug, move the selector plate to the CAT.7 or CAT.5/6 position indicated by the arrows and labels on the tool.
4. Arrange the conductors according to the wiring standard required by the project. The wiring method at both ends of a link must meet the design requirements.
5. Never force a proprietary, irregular, or otherwise incompatible plug into a crimping position. Do not insert screws, metal pieces, or other hard objects.

### 4.4 Selecting the Test Method

- Single-ended test: insert one terminated end into the main-unit test port. The remote unit does not connect to the cable under test;
- Wire mapping: slide the remote unit off the main unit and connect the two cable ends to the main-unit and remote-unit test ports;
- Both tests start automatically after the plug is fully inserted. No button is required.

## Chapter 5

# Operating Instructions

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### 5.1 Opening and Locking the Tool

#### 1 Open the Tool

Make sure no cable or plug is held in the tool. Move the LOCK latch to the unlocked position and open the handles slowly.

#### 2 Check Handle Travel

With the tool empty, squeeze the handles lightly once. Confirm that they move smoothly and that the blades and crimping dies are free of debris. Keep fingers out of the moving mechanism.

#### 3 Lock After Use

After cleaning, close the handles and move the LOCK latch to the locked position.

### 5.2 Cutting Cable

1. Confirm that the cable is de-energized and completely disconnected from equipment.
2. Place the cable in the cutter and keep it as perpendicular to the blade as practical.
3. Move your fingers away from the blade and handle pinch points, then squeeze the handles completely in one motion.
4. Inspect the cut. If it is noticeably angled or the conductors are splayed, trim the cable again before stripping.

**CAUTION** Cut only communication cable compatible with the intended use of this tool. Do not cut steel wire, steel cable, nails, or other hard materials.

## 5.3 Stripping the Jacket

1. Confirm that the cable outside diameter does not exceed 10 mm and determine the required stripping length.
2. Place the cable in the stripping position and squeeze the handles lightly to grip the jacket.
3. Rotate or pull the cable smoothly so the blade scores the jacket. Do not apply excessive pressure.
4. Remove the jacket and inspect the insulation and conductor of each wire.
5. If a conductor is nicked, crushed, or exposed, cut off the damaged section and start again.

**NOTE** Cable jackets vary in thickness and construction. Before processing a new cable type, practice on a short scrap to establish the correct pressure and stripping length.

## 5.4 Arranging Conductors and Inserting the Plug

1. Arrange the conductors in the order required by the project and keep them straight and parallel.
2. Trim the conductor ends square.
3. Insert the conductors fully into the plug and confirm that each one reaches the front.
4. Make sure the cable jacket enters the plug's strain-relief area so the crimp does not grip only the individual conductors.
5. Through the transparent plug body, verify the wiring order, insertion depth, and conductor positions.

**CAUTION** A plug normally cannot be corrected without damage after crimping. Verify conductor order and insertion depth before squeezing the handles.

## 5.5 Crimping an 8P Network Plug

1. Confirm that the plug is a standard, non-proprietary 8P network plug and identify its category.
2. With no plug in the crimping position, move the 8P selector plate to the corresponding CAT.7 or CAT.5/6 position indicated by the arrows and labels.
3. Place the wired plug in the 8P crimping position.
4. Confirm that the plug is correctly oriented and fully seated, without tilting or hanging outside the die.
5. Squeeze the handles steadily through one complete crimping cycle.

6. Release the handles, remove the plug, and inspect the contacts, wiring order, and jacket retention.
7. Observe the status indicator. If it is orange or the result is abnormal, follow Chapter 8.

**CAUTION** Remove the plug and fully release the handles before moving the 8P selector plate. Never force the plate while the mechanism is under load.

## 5.6 Crimping a 6P Telephone Plug

1. Confirm that the plug is a standard, non-proprietary 6P telephone plug.
2. Arrange the conductors as required by the project and insert them fully into the plug.
3. Place the plug in the 6P crimping position, checking its orientation and seating.
4. Squeeze the handles steadily to complete the crimp, then inspect the contacts and cable retention.

## 5.7 Main-Unit Single-Ended Test

1. Confirm that the network cable under test is disconnected from switches, PoE equipment, and every other powered device.
2. Insert the terminated end into the main-unit test port and make sure the plug is fully seated.
3. Testing starts automatically after insertion; no button is required.
4. Observe the main-unit status indicator: green indicates normal and orange indicates a fault.
5. If the result is abnormal, unplug the cable and check the wiring order, insertion depth, plug type, and crimping position before reworking the termination.

## 5.8 Wire Mapping with the Main and Remote Units

1. Confirm that both ends of the network cable are disconnected from switches, PoE equipment, and every other powered device.
2. Hold the main and remote units securely. Slide the remote unit smoothly along the connection rail to remove it; do not twist or pry it off.
3. Insert one cable end into the main-unit test port and the other into the remote-unit test port. Make sure both plugs are fully seated.
4. Testing starts automatically after insertion; no button is required.
5. Observe LEDs 1–8 on the front of the remote unit and use Chapter 6 to interpret the basic wire-mapping result.

6. After testing, unplug both cable ends. Align the remote unit's rail with the groove in the main unit and slide it smoothly back into place.

## 5.9 Cleaning and Storage

1. Disconnect all cables, plugs, and the charging cable.
2. Remove jacket scraps, copper fragments, and dust from the blades, crimping dies, and test ports.
3. Slide the remote unit back onto the end of the main unit and confirm that it is fully seated.
4. Close the handles and engage the LOCK latch.
5. Store the tool in a dry location, away from corrosive liquids and heavy loads.

Chapter 6

Interpreting Results

6.1 Main-Unit Single-Ended Test Indicator

Testing starts automatically when the network cable is inserted into the main-unit test port. Interpret the main-unit status indicator as follows:

| Indication | Meaning                                                                           | Recommended Action                                                                              |
|------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Green      | The inserted termination is normal                                                | Continue using the cable.                                                                       |
| Orange     | The inserted termination has a fault                                              | Check the wiring order, insertion depth, plug type, and crimping position.                      |
| Off        | The plug is not fully seated, battery power is low, or the connection is abnormal | Reinsert the cable and check the battery level. If the indicator remains off, inspect the tool. |

6.2 Main-to-Remote Wire-Mapping Indication

Wire mapping starts automatically after the two cable ends are connected to the main-unit and remote-unit test ports. LEDs 1–8 on the front of the remote unit display the basic result. This manual does not define a detailed lighting sequence or interpret individual LED combinations.

| Observation                    | Basic Interpretation                                                                                                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| LEDs 1–8 show activity         | Automatic wire mapping has started and the current result can be observed.                                           |
| No display or abnormal display | Reinsert both cable ends and check the battery level. If the indication remains abnormal, inspect both terminations. |

## 6.3 What to Do After an Abnormal Result

1. Disconnect the cable under test and confirm that it has no energized or PoE connection;
2. For a single-ended test, check the main-unit port. For wire mapping, check both the main-unit and remote-unit ports;
3. Confirm the plug type and the selected 8P or 6P crimping position;
4. Check the wiring order, confirm that each conductor reaches the front of the plug, and verify jacket retention;
5. Install and crimp a new plug;
6. Repeat the applicable automatic test;
7. If multiple known-good samples produce abnormal results, stop using the tool and inspect it or contact support.

## Chapter 7

# Safety and Maintenance

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### 7.1 Blade and Pinch-Point Safety

**DANGER** The cutting blade, stripping blade, and crimping mechanism can cause cuts or pinch injuries. Keep fingers away from the blades, dies, and handle mechanism during operation. Keep this product out of the reach of children and do not allow children to use it.

- Clear the work area and maintain a secure grip before operating the tool;
- Never touch a blade to test its sharpness;
- Never adjust a plug or cable while closing the handles;
- Close the handles and engage the LOCK latch before storage.

### 7.2 Cable Safety

**DANGER** This product is not marked as providing protection for energized circuits or PoE. Before cutting, stripping, crimping, or testing, disconnect the cable from all equipment and power sources.

- Never connect the tool to AC mains, a circuit of unknown voltage, or a PoE cable that is still supplying power;
- Do not operate the tool in a wet area, standing water, or any environment where conductive liquids may be present;
- If de-energization has not been confirmed, use suitable test equipment and have the cable handled by a person with appropriate knowledge.

## 7.3 Charging Safety

- Use an undamaged, compliant USB Type-C charging cable and a 5 V power source;
- Keep the tool ventilated and dry while charging; do not cover it;
- Do not disassemble, puncture, crush, or replace the built-in battery;
- Stop using the tool immediately if it becomes unusually hot, emits an odor or smoke, leaks, or the housing deforms.

## 7.4 Cleaning

After each use, clean the blades, crimping dies, and test ports with a dry soft brush or lint-free cloth. Do not use corrosive liquids, spray cleaning solution directly into a port, or probe contacts with a metal object.

**CAUTION** Disconnect the cable under test and the charging cable before cleaning. The blade area may remain sharp; avoid direct contact.

## 7.5 Periodic Inspection

- Inspect the blades for chips, deformation, and looseness;
- Inspect the crimping dies for misalignment, binding, and debris;
- Inspect the test-port contacts and USB Type-C port for looseness and corrosion;
- Check the handles, hinge, and latch for correct operation;
- Confirm that the LEDs illuminate steadily.

## 7.6 Long-Term Storage

Do not use, charge, or store this product in extremely hot, cold, or humid conditions. For normal storage, choose a dry, ventilated location free of corrosive gases and direct sunlight. Protect the tool from drops, heavy loads, and heat sources. During extended storage, check the battery level periodically and recharge as needed to avoid prolonged deep discharge.

## Chapter 8

# Troubleshooting

Before troubleshooting, disconnect the cable under test and the charging cable. Do not disassemble the tool to investigate a blade, crimping mechanism, battery, or internal-circuit problem.

**Table 8-1** Common symptoms and corrective actions

| Symptom                                               | Possible Cause                                                                                                                    | Corrective Action                                                                                                                                                    |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Orange after crimping                                 | Conductors are not fully inserted, the wiring order is incorrect, the plug is incompatible, or the crimping position is incorrect | Check the wiring order, insertion depth, and 8P / 6P position. If necessary, install a new plug and crimp again.                                                     |
| Status indicator is off during a single-ended test    | Battery power is low, the plug is not fully seated in the main-unit port, or the main-unit port is faulty                         | Charge the battery, then reinsert the cable into the main-unit port. If the indicator remains off, stop using the tool and contact support.                          |
| Wire-mapping display is abnormal, absent, or unstable | Battery power is low, a plug is not fully seated, a termination is defective, or a port is faulty                                 | Check the battery level and reinsert both cable ends. If the problem remains, inspect both terminations or verify them with appropriate professional test equipment. |
| Cut is not square                                     | The cable is misaligned, the cutting angle is incorrect, or debris is present on the blade                                        | Clean the cutter, position the cable perpendicular to the blade, and complete the cut in one motion.                                                                 |
| Conductors are damaged while stripping                | Excessive pressure was applied, or the cable diameter or construction is incompatible                                             | Reduce pressure and practice on scrap cable. Confirm that the cable outside diameter does not exceed 10 mm.                                                          |
| Plug will not enter the die                           | The plug type, orientation, crimping position, or 8P selector-plate position is incorrect                                         | Remove the plug and confirm the 8P / 6P type and orientation. For an 8P plug, also check the CAT.7 / CAT.5/6 position. Do not force the plug into the die.           |

| Symptom                 | Possible Cause                                                                               | Corrective Action                                                                                                                         |
|-------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Handles will not close  | The latch is incorrectly positioned, debris is in the die, or the plug is incorrectly placed | Remove the plug, clear the debris, and check the latch. Do not force the handles closed.                                                  |
| Battery will not charge | The charging cable, power source, or USB Type-C port has a poor connection                   | Use a known-good charging cable and 5 V power source. If charging still fails or the tool becomes hot, stop charging and contact support. |

## 8.1 Conditions Requiring Immediate Discontinuation

Stop using the tool immediately if any of the following occurs:

- A blade is chipped, deformed, loose, or abnormally exposed;
- A crimping die is misaligned, cracked, or will not return to position;
- The housing, hinge, or a port is damaged after a drop;
- The battery becomes unusually hot, emits an odor or smoke, leaks, or causes the housing to swell;
- Multiple known-good cables and plugs still produce abnormal indications;
- Liquid enters the tool.

## 8.2 Information to Record Before Contacting Support

To help identify the problem, record the following before contacting support:

- Product model, purchase or receipt date, and any identifiable batch information;
- Cable and plug type, test method, and the main-unit or remote-unit port used;
- The complete behavior of the green, orange, and LEDs 1–8;
- Charging-power specification, charging cable, and charging-indicator behavior;
- The steps immediately before the fault and any photographs or video that can be provided safely.

**NOTE** Support phone: 0769-85011391; website: [shom.cn](http://shom.cn). When contacting support, provide the model, symptom, cable and plug type, and indicator behavior.

Chapter 9

Package Contents and Version Information

9.1 Package Contents

The standard package contains:

| Item                                                | Package Quantity |
|-----------------------------------------------------|------------------|
| SML-368F Multi-Function Network Cable Crimping Tool | 1                |
| USB Type-C charging cable                           | 1                |
| Packaging box                                       | 1                |
| Remote unit                                         | 1                |

**WARNING** If the main tool is damaged, a blade is loose, a port is deformed, or the battery appears abnormal when received, do not power or operate the product. Retain the packaging and contact the supplier.

9.2 Version Information

| Version | Date          | Status           | Description                                                                                                                                          |
|---------|---------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| V1.0    | July 24, 2026 | Official Release | First official English release, covering specifications, operation, test indications, safety and maintenance, troubleshooting, and package contents. |



SML-368F · V1.0 Official Release

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