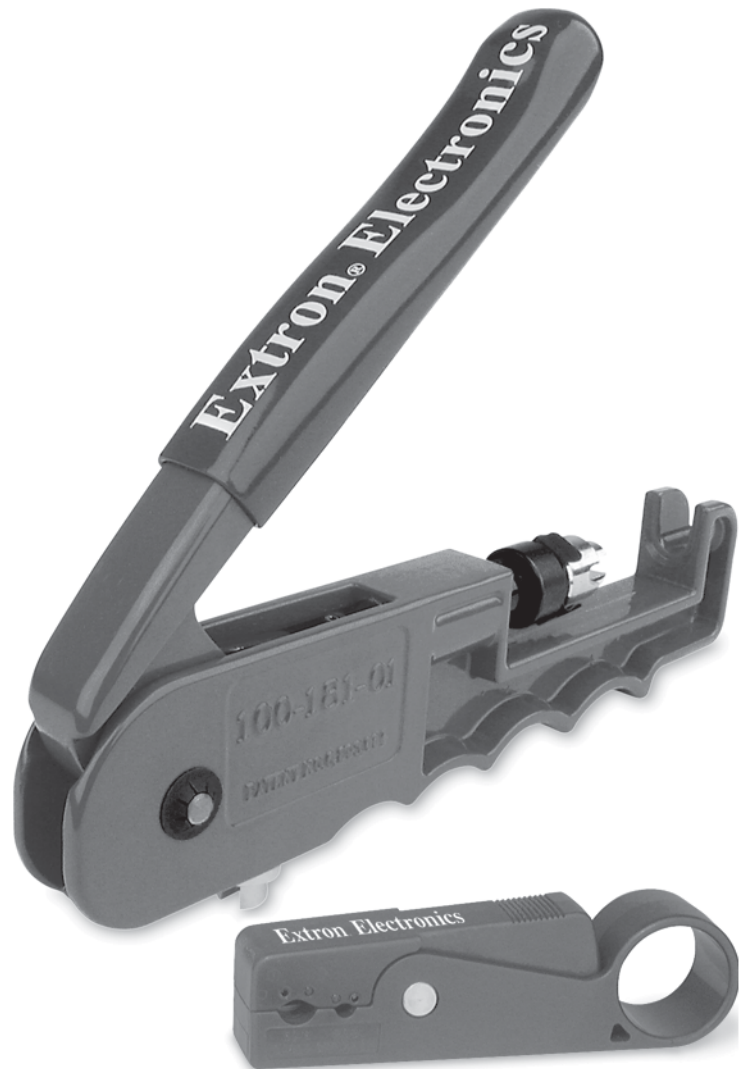


## User's Guide

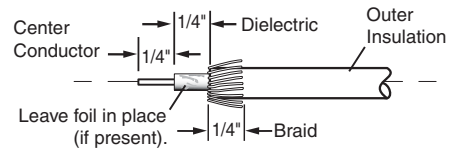


# CTU 100 *Universal Termination Compression Tool*

# CTU 100 Universal Termination Compression Tool

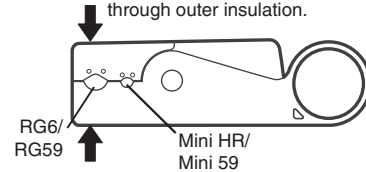
## Preparing the Cable

1. Insert the cable end into the properly sized hole (RG6 and RG 59 in the larger hole, mini HR and mini 59 in the smaller hole) in the cable stripper and line up the cable end flush with the side of the tool. See the illustration at right.
2. Rotate the tool several times in one direction and then several times in the opposite direction. **For RG6 and RG 59 cables only**, apply pressure. Do not over cut the braids.
3. Pull the cable out of the tool with the tool still closed.
4. **For Mini HR and Mini 59 cables only**, straighten and smooth the stranded center conductor. Do not twist the conductor. **This will help deter crumpling or “frizzing” of the stranded cable when the center pin is installed.**
5. Ensure that the dielectric is rounded and that no braid is wrapped around the center core.
6. Fold back the braid. **Do not remove the foil.**
7. **For RG59 HR plenum cable only**, gently twist the foil to ensure that it is tightly molded to the dielectric and that it is not peeled away from the dielectric.

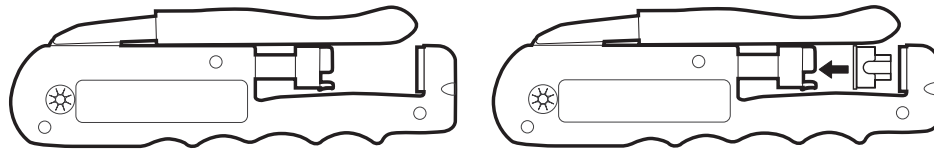


**NOTE** Illustration is not to scale.

**For RG6 and RG59 cable only**, apply pressure to top and bottom of cable stripper to cut through outer insulation.



## Using the Universal Compression Tool and Adapters (Adapters are used for terminating RCA and F-type connectors only)



**1** If applicable, unscrew the adapter from bottom of the compression tool.

**2** If applicable, insert the adapter into the plunger.

**NOTE** Two adapters, one gold and one silver, are shipped with the universal compression tool. These adapters are **only** required for RCA and F-type connectors.

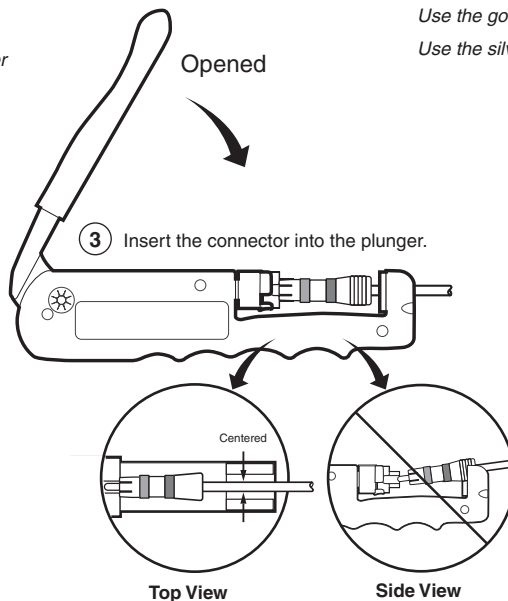
**CAUTION** Using the wrong adapter can damage the tool and/or connector.

Use **no** adapter for BNC connectors.

Use the gold adapter for gold RCA and F connectors **only**.

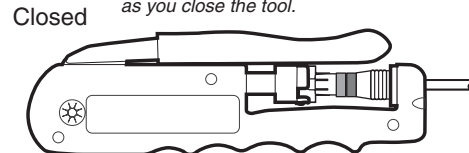
Use the silver adapter for nickel RCA and F connectors **only**.

See Part Numbers on the rear page for proper applications.



**4** Compress the connector until you feel firm resistance or the tool's handle reaches the body.

**NOTE** For Mini HR or Mini 59 cable, use your free hand to **firmly** push the cable into the tool as you close the tool.



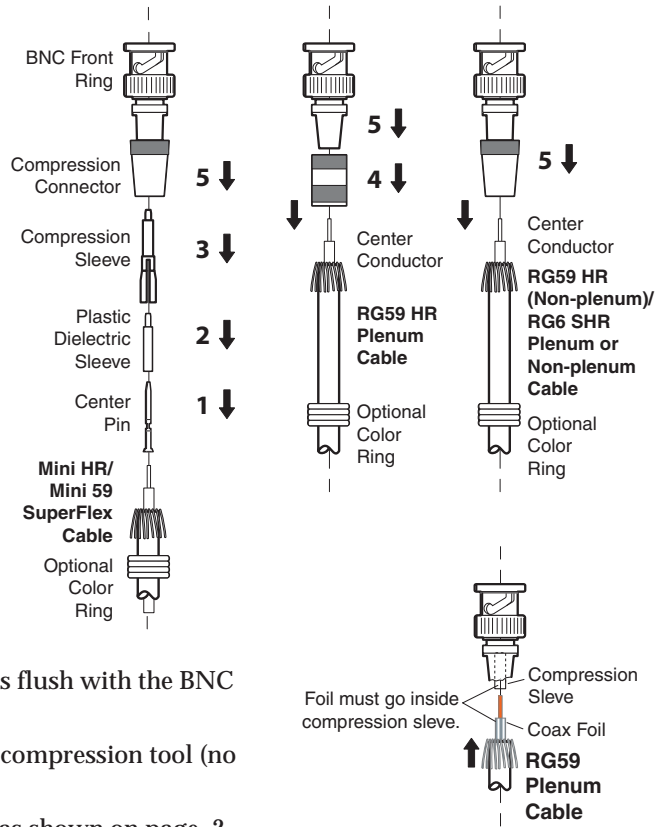
**NOTE** Ensure that the cable and connector are centered over the plunger and go straight into the plunger and not at an angle.

## Terminating the Cable with BNC connectors

1. **Mini HR and Mini 59 cable only** — Slide the center conductor pin onto the center conductor.
2. **Mini HR and Mini 59 cable only** — Place the plastic dielectric sleeve over the center conductor pin.
3. **Mini HR and Mini 59 cable only** — Slide the compression sleeve over the dielectric sleeve as far as possible.
4. **RG 59 HR plenum cable only** — Slide the barrel over the braid and outer insulation.

**CAUTION** For RG 59 HR plenum cable, ensure that the foil slides cleanly into the ferrule and does not bunch up. If the foil does bunch up, you must cut and restrip the cable and start over.

5. Push the compression connector onto the cable, gently twisting the cable in the compression connector, until the center pin is flush with the BNC front ring.
6. Place the cable and connector in the opened compression tool (no adapter is necessary).
7. Compress the cable and connector together, as shown on page 2.

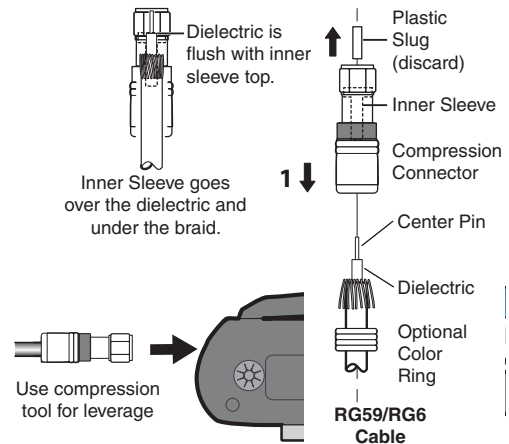


## Terminating the Cable with F-type connectors

1. Push the compression connector onto the cable until the dielectric is flush with the inner sleeve top of the connector. Use the compression tool to provide leverage as shown. **The center conductor should protrude slightly from the front ring.** Discard the plastic slug.
2. Select and place the correct adapter into the compression tool. **Use the gold adapter for gold connectors and the silver adapter for nickel connectors.**

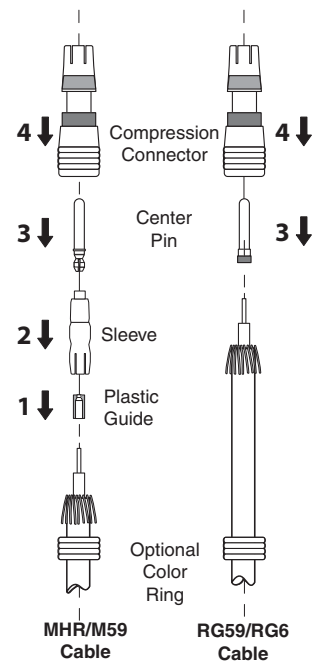
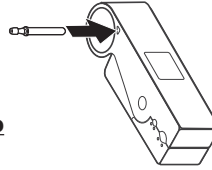
**CAUTION** Using the wrong adapter can damage the tool and/or the connector.

3. Place the cable and connector in the opened compression tool.
4. Compress the cable and connector together, as shown on page 2.



## Terminating the Cable with RCA connectors

1. **Mini HR and Mini 59 cable only** — Slide the plastic guide onto the exposed conductor with the smaller hole on top.
2. **Mini HR and Mini 59 cable only** — Slide the sleeve over the plastic guide to cover the braid.
3. Place the center pin on the exposed conductor. Use the cable stripper for leverage as shown at right. **Mini HR and Mini 59 cable only** — Ensure that the strands of the center conductor do not get crumpled or “frizzed”. Listen for the center pin to click into place.
4. Push the compression connector onto the cable and pin until the pin protrudes past the top of the connector by approximately 1/4".
5. Select and place the correct adapter into the compression tool. **Use the gold adapter for gold connectors and the silver adapter for nickel connectors.**



**CAUTION** Using the wrong adapter can damage the tool and/or the connector.

6. Place the cable and connector in the opened compression tool.
7. Compress the cable and connector together, as shown on page 2.

## Installing the Color Ring

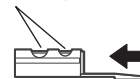
Slide the appropriate color ring into the groove in the middle of the connector.

**NOTE** The color ring can be slid into position from either direction, from behind the connector or stretched over the front of the connector.

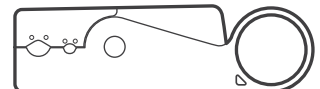
## Replacing the Stripper's Blade Assembly

1. Push in on the ridged plate on the underside of the cable stripper tool and slide the blade assembly forward out of the tool.
2. Slide a replacement blade assembly, part #100-184-01, into the tool until it snaps into place.

**WARNING**  
Sharp cutting blades.



Use care when removing or replacing cutting blade cartridge.



# Part Numbers

## Tools, Kits, and Replacement Parts

Universal Compression Tool	100-181-01
Compression Coax Prep Tool	100-183-01
Compression Coax Prep Tool Replacement Blades	100-184-01
MHR BNC Compression Kit	60-538-01
RG6 (SHR) BNC Compression Kit	60-538-02
Replacement adapter (nickel)	100-405-01
Replacement adapter (gold)	100-405-02

## MHR (26 AWG) Connectors and Parts

BNC connectors (nickel), qty. 50 (orange)	100-186-01
BNC connectors (gold), qty. 50 (orange)	100-186-02
BNC pins, qty. 100	100-367-02
BNC nylon sleeves, qty. 100	100-369-02
BNC ferrules, qty. 100	100-368-02
RCA connectors (nickel), 50 (orange)	100-302-01
RCA connectors (gold), 50 (orange)	100-302-02
RCA pins, qty. 100	100-375-02
RCA nylon sleeves, qty. 100	100-377-02
RCA ferrules, qty. 100	100-376-02

## Mini 59 (24 AWG) Connectors and Parts

BNC connectors (nickel), qty. 50 (purple)	100-187-01
BNC connectors (gold), qty. 50 (purple)	100-187-02
BNC pins, qty. 100	100-371-02
BNC nylon sleeves, qty. 100	100-373-02
BNC ferrules, qty. 100	100-372-02

## Mini 59 (24 AWG) (continued)

RCA connectors (nickel), qty. 50 (purple)	100-303-01
RCA connectors (gold), qty. 50 (purple)	100-303-02
RCA pins, qty. 100	100-379-02
RCA nylon sleeves, qty. 100	100-381-02
RCA ferrules, qty. 100	100-380-02

## RG59 (HR) Connectors and Parts

BNC connectors, non-plenum (nickel), qty. 50 (red) <sup>1</sup>	100-189-01
BNC connectors, plenum (nickel), qty. 50 (red) <sup>1</sup>	100-212-01
BNC connectors, non-plenum (gold), qty. 50 (red)	100-189-02
F-type connectors (nickel), qty. 50 (red)	100-209-01
F-type connectors (gold), qty. 50 (red)	100-209-02
RCA connectors (nickel), qty. 50 (red)	100-304-01
RCA connectors (gold), qty. 50 (red)	100-304-02
RCA pins, qty. 100	100-383-02

## RG6 (SHR) Connectors and Parts

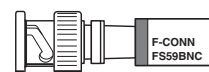
BNC connectors (nickel), qty. 50 (green)	100-188-01
BNC connectors (gold), qty. 50 (green)	100-188-02
F-type connector (nickel), qty. 50 (green)	100-208-01
RCA connectors (nickel), qty. 50 (green)	100-305-01
RCA connectors (gold), qty. 50 (green)	100-305-02
RCA pins, qty. 100	100-385-02

## RCA Color Rings<sup>2</sup> 100 Ea.

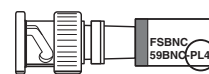
RCA color rings	100-306-01(R),02(G),03(B),04(yel),05(blk),06(wht)
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<sup>1</sup> The color coding for BNC HR non-plenum and HR plenum cables are both red; to identify each connector, check the connector legend. The plenum version contains the letters "PL4", as shown at right.

<sup>2</sup> 6 different color rings are available for different signal-type indications.



**BNC HR (RG59) cable (non-plenum)**



**BNC HR (RG59) cable (plenum)**



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