

CX200 Coax Mapper

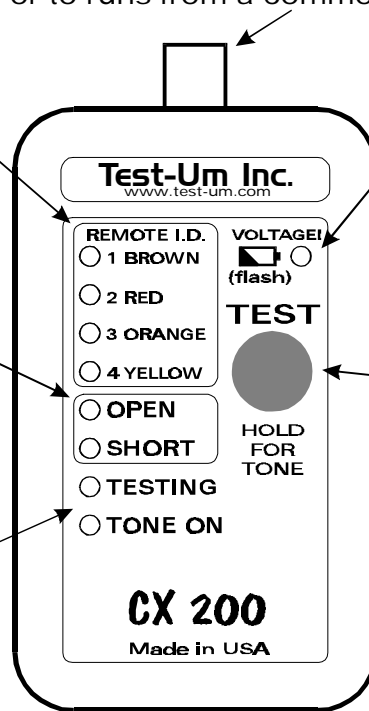
Connect F-connector coax to top of CX200 or use an adapter to BNC. Connect one or more of the color coded terminators to the other end of cables to be tested or to runs from a common splitter.

LED Indicators:

Remotes detected LEDs
A LED will light for the color of the terminator found. If connected through a splitter, a LED will light for each terminator found.

Fault LEDs. If no terminator is found, the OPEN LED will light. If a short circuit is detected, the SHORT LED will light and no remotes can be identified until the short is cleared.

STATUS LEDs. The TEST LED flashes briefly during each test. The TONE LED will flash while tone is being sent to the center pin of connector. Auto-power-off after approximately 30 minutes.



VOLTAGE! LED If voltage is detected this LED will light. (DISCONNECT IMMEDIATELY!) LED also indicates low battery when flashing. Replace battery to ensure proper operation.

TEST Button. Press button and release when ready to test a cable. Results are displayed for 10 sec. before auto-off. Press and hold button till TONE LED lights to enter tone mode. A second press will turn off the tone mode.

Specifications

Physical Size

Coax Mapper:

Dimensions: 8.25 x 5 x 3.17 cm (3.25 x 2 x 1.25 inches)

Weight: 144 grams (4 oz.) with battery

Automatic Power off: 12 seconds after PASS/FAIL results.
30 minutes in Tone mode.

Minimum cable length for testing: 0 meters (0 ft.)

Maximum cable length that can be tested: 1000 meters (3000 ft.) *

Maximum DC cable resistance (Shield + Center Conductor): 100 ohms

Remote:

Dimensions: F Connector 7/16 inch hex

Weight: 11 grams (.5 oz.)

*Cable Length: Cables vary widely in DC resistance. The distances quoted above is for typical resistance cable.

The tester is capable of testing longer runs of low resistance cable. See reference chart below:

Coax Type	Belden P/N	Center + Shield	Max Length
RG-58A/U	8259	14.9 Ohms/1000ft	2.045km (6710ft)
RG-59/U	9310	24.1 Ohms/1000ft	1.265km (4150ft)
RG-59/U	9259	23.5 Ohms/1000ft	1.297km (4255ft)
RG-59/U	8241A	49.7 Ohms/1000ft	628m (2010ft)
RG-59/U	9275	78.5 Ohms/1000ft	398m (1275ft)

Note: The CX200 will not test cable runs with:

Power Amplifiers

Isolation Splitters

Attenuators

Directional Line Tap

Power Dividers

Matching Transformers

Introduction:

The CX200 is a small hand held tester designed and developed for CATV and security system installers who test multi-run coax systems terminated with F-connectors or those who wish to map runs to a central bundle. It has the ability to put a tone signal on a coax cable as well as find and identify multiple coax cables connected to a coax splitter. With four unique identifier test terminators, it is ideal for mapping coax installations.

To put TONE on a coax cable, push and hold down the TEST button until the TONE LED lights. TONE is now on and the master unit is transmitting tone onto the center pin of the coax cable. The TONE LED will flash indicating that tone mode is on. Tone mode will automatically shut off after approximately 30 minutes. To exit the tone mode, push the test button once. The TONE LED will turn off.

Note: The CX200 will not test cable runs with AC or DC voltage present. Also it will not test through amplifiers, DC blocking devices or isolation splitters.

Operation:

The CX200 consists of a master unit and four remote terminators (#1 Brown, #2 Red, #3 Orange, #4 Yellow). The CX200 is used to test coax with F-connectors or with BNC using the included adapters. The master unit is connected to one end of the coax cable and the remote units are connected to the other end of the coax cables. If there is voltage present, the "Voltage!" light will turn on. Disconnect the tester from the live line and remove voltage source from the coax cable before further testing. With the master and remote(s) connected, push the test button. The TESTING LED will flash quickly and the test is performed. If no failures are detected, the remote(s) will be identified in the PASS area by lighting an LED for each remote found. If no remote is found, or the cable is shorted, the OPEN or SHORT LEDs will light, respectively.

To put TONE on a coax cable push and hold down the TEST button until the TONE LED lights. TONE is now on, and the master unit is transmitting tone on the center pin of the coax cable. The TONE LED will flash indicating that tone mode is on. Tone mode will automatically shut off after approximately 30 minutes. To exit the tone mode, push the test button once. The TONE LED will turn off.

Battery Low Light:

When Voltage!/battery low LED flashes replace battery.

Voltage Present Detection:

A positive voltage on the center pin of the connector with respect to the barrel or an AC voltage will cause the "Voltage!" LED to light. Remove tester from line and remove source of voltage from coax cable before doing any further testing.

Battery Replacement:

A 6 volt A544 1/2AA size battery powers the CX200. Battery removal and installation is as follows:

1. Remove the screw from back of unit using a #1 Phillips screwdriver. Carefully open unit.
2. Remove old battery and dispose of properly.
3. Install new battery.
4. Be sure + on battery matches + on battery holder.
5. Close unit and replace screw, being careful not to over tighten the screw.