

# 620 LAN CableMeter®

- One person can verify each connection as he goes
- Tests all LAN cable types
  - UTP, STP, FTP, Coax
  - Two, three, or four wire pairs in twisted pair cables
  - Test all category UTP cables and hardware
- Verify end-to-end connectivity per EIA/TIA 568 wiring standard
- Detects wiring problems: opens, shorts, miswires (crossed, reversed, split pair)
- Locates wiring/connection errors (distance to the open or short)
- Measures cable length
- Easy to use:
  - Single rotary knob to select the test
  - Two line LCD display with backlight
- Handheld, long battery life (50 hours continuous)

## Test as you go

The Fluke Networks 620 LAN CableMeter verifies the correct termination, connection and routing of LAN cabling. The 620 can test whether a connection has been properly implemented without using a remote unit at the other end of the cable. This allows the installers to “test the connection as they go.”

Upon completing a connection, the installer can immediately verify that this connection is defect-free using a 620. No termination or connector is required at the other end of the cable. From one end, the 620 can detect (1) an open circuit and the length to this open (applies to each pair in a twisted pair LAN cable), (2) a short and the distance to this short circuit, (3) a split pair condition (the 620 shows the actual pairing detected).

The installer saves time by diagnosing each connection right after completing that task. Installers don’t have to postpone testing until all connections have been made. And, if the cable plant requires “certification,” the final performance test on each



cable channel will not be hampered or delayed by miswires, shorts, or opens. Wire termination errors can be identified as they occur and corrective action can be taken immediately without spending time in troubleshooting and fault isolation at cable plant “certification” time.

## Verify cable routing

An installer can attach a “cable identifier” (optional) to a completed LAN connection to verify the cable routing and label, plus detect miswire possibilities such as reversed or crossed pairs in twisted pair cables.

## Measurement capabilities

The following table summarizes the fault detection and fault location capabilities of the 620 LAN CableMeter without using a remote unit – called cable identifier – and with the cable identifier.

The one-person LAN cable verification tool

## Operation

The 620 utilizes a two line LCD display (16 characters each). The display is equipped with a backlight to provide easy reading under all ambient light conditions. The Fluke Networks 620 implements three cable connectors: an RJ45 socket for UTP or FTP cable, a DB9 socket for IBM Type #1 STP cable, and a BNC connector for coax. The instrument is powered by two AA size 1.5 volt alkaline batteries. The battery life is 50 hours, not including the consumption of the backlight.

A Setup button provides the ability to select the cable type, wiring standard (e.g. 10Base-T, 2 pair), cable category and wire gauge of the cable to be tested. In addition, the setup menu allows the user to:

- Enable or disable the audible pass/fail sound.
- Adjust the display contrast.
- Calibrate the meter to a specific type of cable.
- Select the language on the display (English, French, German, Italian, Japanese, Spanish).
- Select the units for length reports (feet or meters).

### The rotary selection switch offers three modes of operation:

1. Test provides a pass/fail report on the cable under test. In case a failure has been detected, the display offers additional diagnostic information.
2. Length provides the length of each pair (in case a twisted pair cable is being tested).
3. Wire Map provides the detail wiring for the cable.

## Specifications

Length	
Range	1 to 999 ft or .5 to 300m
Resolution	1 ft or .5m
Accuracy	5% ± 3 ft or 5% ± 1m
Display	Feet or meters
Power	
Two AA size 1.5 volt alkaline batteries	
Battery life: 50 hours of continuous operation, not including backlight consumption	
Input protection	
The inputs withstand telephone ringing and loop voltages. The instrument warns the user with an "Active Cable" message and an audible warning tone.	
Size	7.25 in x 3.87 in x 1.8 in (18 cm x 9.8 cm x 4.6 cm)
Weight	12.5 oz (354g)
Warranty	1 year (extended warranty available)

## Ordering Information

620 CableMeter
Includes: One Cable Identifier (#1), soft carrying case, user manual, quick reference card, warranty registration card, one patch cord (RJ45-to-RJ45 EIA/TIA 4 pair Cat 5), and one RJ45-to-RJ45 female coupler
Optional Accessories
N6201 Cable Identifiers #2 - #4
N6202 Cable Identifiers #5 - #8
N6203 STP (IBM Type 1) Cable kit
Kit contains: IBM Data Connector to DB9 male cable (IBM type 1, 3 ft/1m); IBM Data Connector to RJ45 adapter

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