Networking Hardware Tools

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This lesson explains common tools used in networking. It covers various instruments essential for creating, testing, and troubleshooting network connections.

The tools include:

Cable stripper: Used to remove the plastic shielding from cable ends.
Wire crimper: Crimps connectors like RJ45 to twisted pair cables.
Cable tester: Verifies continuity and correct wire arrangement in cables.
Tone generator: Traces cables from one end to another by generating a detectable tone.
Time Domain Reflectometer (TDR): Tests twisted pair and coaxial cables by transmitting a signal and analyzing its reflection to pinpoint problems.
Optical Time Domain Reflectometer (OTDR): Similar to a TDR but used for fiber optic cables, transmitting light to detect issues.
Light meter: A simpler tool for fiber optic cables that measures the amount of light passing through.
RJ45 Ethernet loopback adapter: Performs a loopback test to check network ports and connection issues.
Butt set: Used by telephone technicians to test and monitor telephone lines.
Punch down tool: Connects wires into a punch down block, automatically cutting excess wire.
Multimeter: Tests electrical circuits, measuring voltage and checking for continuity in network cables and power outlets.