

KNOWLEDGE PROBE 3: WIRING AND CABLING

Audio, Telephone and Video Wiring

Learning Objectives

- Name the types of wire and cables used in audio electronics.
- Name the types of wire and cables used in video electronics.

1. What is the general frequency range of signals carried by audio wiring?
 - a. 50 to 5000 Hz
 - b. 50 to 15,000 Hz
 - c. 20 to 20,000 Hz
 - d. Anything below 100 kHz
2. Speaker cables are transmission lines.
 - a. True
 - b. False
3. A speaker cable carries 3.6 Amperes of audio current to an 8 ohm speaker. How much power is delivered?
 - a. 28.41 watts
 - b. 75.97 watts
 - c. 103.68 watts
 - d. 205.62 watts
4. Speaker cables are usually stranded.
 - a. True
 - b. False
5. Low level audio signals are usually carried by coax or shielded cables because they
 - a. Are large enough to carry the current
 - b. Are more flexible
 - c. Are preferred by the public
 - d. Provide shielding from noise and 60 Hz power line hum
6. What is the most popular audio/stereo system coax connector?
 - a. BNC
 - b. F-type
 - c. RCA phono
 - d. UHF
7. Most telephone wiring is
 - a. Solid
 - b. Stranded



8. What is the name given to the red and green telephone wires installed in most homes and offices?
 - a. High and low
 - b. Hot and ground.
 - c. Hot and neutral
 - d. Tip and ring

9. What is the name of the connector used for indoor connections to telephone wiring?
 - a. Modular
 - b. Ethernet
 - c. Coaxial
 - d. Clip on.

10. Name the connection system that uses solderless connections for telephone connections in equipment closets.
 - a. Connection panels
 - b. Punch down blocks
 - c. Splice blocks.
 - d. Wire wrap connectors.

11. How are wires attached to the pins of a punch down block?
 - a. Pressed between two pressure fingers
 - b. Soldered
 - c. Welded
 - d. Wire wrapped.

12. What is the most common cable used to carry video signals?
 - a. Coax
 - b. Romex
 - c. Speaker cable
 - d. Twisted pair

13. What is the typical impedance of a video cable?
 - a. 50 ohms
 - b. 75 ohms
 - c. 93 ohms
 - d. 100 ohms

14. Name a common type of coax cable that carries video between pieces of equipment...
 - a. RG-8/U
 - b. RG-11/U
 - c. RG-59/U
 - d. RG-213/U



15. What is the most common coax used to deliver cable TV signals to a home?
- RG-6/U
 - RG-11/U
 - RG-58/U
 - RG-213/U
16. Which type of video connector is used to carry RGB and composite video signals?
- BNC
 - F-type
 - RCA phono
 - UHF
17. Which type of cable and connector is used to carry higher quality video?
- BNC
 - F-type
 - RCA phono
 - S-video