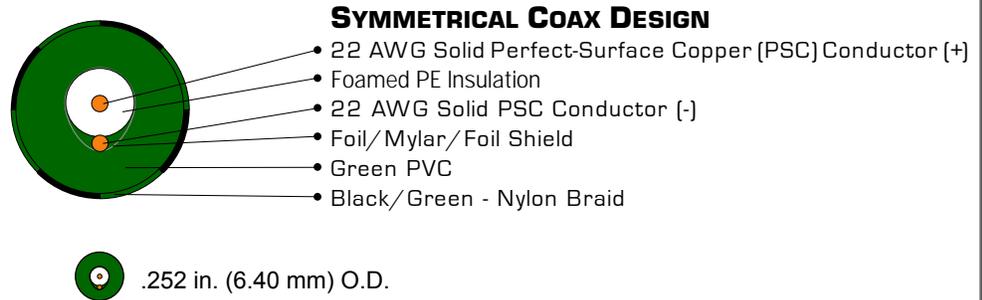




## COPPERHEAD

### ANALOG AUDIO INTERCONNECT



At first glance, Copperhead's design looks like a traditional coaxial cable. However, PSC copper and many other very important difference seach contribute to Copperhead having such unprecedented ease and clarity in an affordable cable.

**DESIGN BASICS:** Copperhead has identical conductors for the positive and ground connections. Underneath the 100% coverage foil shield is a bare conductor, exactly the same as the insulated center conductor. The conductor under the shield does double duty as a low distortion audio connection, and as the drain wire connecting the shield to ground.

**CONDUCTORS:** Both of Copperhead's conductors are solid. Electrical and magnetic interaction between strands in a conventional cable is the greatest source of distortion, often causing a somewhat dirty harsh sound. Solid conductors are fundamental toward achieving Copperhead's very clean sound.

**METAL:** PSC (Perfect-Surface Copper) has an astonishingly smooth and pure surface. Proprietary metal processing technology protects the wire's surface at every stage of drawing and fabrication. When high-purity low-oxide copper is kept as soft, pure and smooth as possible, it becomes a wonderfully low distortion conductor. For fifteen years AudioQuest has pioneered the use of superior metals; yet even we were surprised by this huge leap in performance. PSC clearly out performs previous AQ metals that cost over ten times as much.

**INSULATION:** Any solid material adjacent to a conductor is actually part of an imperfect circuit. Wire insulation, circuit board materials all absorb energy (loss). Some of this energy is stored and then released as distortion. Copperhead uses air filled FPE (Foamed Polyethylene) insulation on both conductors because air absorbs next to no energy, and Polyethylene is low-loss and has a benign distortion profile. Thanks to all the air in FPE, it causes much less of the out-of-focus effect common to other materials.

**TERMINATIONS:** Precision gold plated plugs are carefully attached with the very best solder. Through choice of flux and metallurgy, AQ solder has been optimized to make a low distortion connection. All solder, including "silver solder," is a lousy conductor. The difference you hear between solders is a result of connection quality. AQ Solder does not have a high silver content because the more silver there is in solder, the more difficult it is to make a good connection.