

MADISON AUDIO LABS INTRODUCES ITS EXCLUSIVE NEW CONDUCTOR TECHNOLOGY FROM JAPAN

Extended Single Crystal Copper ESC™ (OF8N) using Ohno-Continuous Casting™.

The Madison ESC or Extended Single Crystal Copper is the new ichiban (Number One) in the advancement of audio conductor performance.

The Madison ESC™ OCC® audio conductor technology is a treatment and finishing process that begins with a pure copper rod made by the Ohno-Continuous Casting™ process. An OCC™ rod is made with molten copper, formed within a graphite mold. This small rod can be used to make a single copper crystal, as long as 200 to 250 metre.

However, the making of the copper into a conductor, requires a process where the copper is 'drawn' or pulled through a series of dies until the final conductor diameter is achieved. In the process of making the final conductor, any 'pure copper' or 'single crystal' is compromised. The conductor is typically less pure, and has many more breaks in the crystal structure than at the start of the process. The additional handling and spooling of the final conductor means that the conductor is now 'work-hardened' and is not as conductive compared to the original OCC rod.

In an effort to create a better 'finished' conductor, the Madison ESC™ uses a series of pre-heated Kyocera ceramic drawing dies, along with a specially timed annealing process, applied in-line just before the extrusion of the PTFE (Teflon™) insulation.

The finished insulated Madison conductor has a very long, unbroken crystal structure. This is important to conductivity, and to having a truly flat and uniform frequency / phase response.

WHY DO ALL OF THIS ?

Any break in the crystal (a lattice) can result in a point of change in uniform AC frequency response (music). These crystal junctions are electrical discontinuities that act as frequency dependent diodes. Or to put it another way, these broken points within a conductor will inhibit the flow of AC electrical current at certain frequencies.

A more perfect conductor sounds cleaner, more transparent and more neutral than one that is less conductive. When the cable design is revealing and extended in the high frequencies, even small differences in conductivity may result in audible differences in sound quality.

With the Madison ESC™ OCC® conductors, you will hear perfect, in-phase coherent higher order harmonics. And this is the stuff that makes music, sound live.