

ortofon development and technology of cable



Helical round multi conductor cable



High technology tradition

It was the year 708 AD when copper was first smelted in Japan. Since then the hi-tech know-how of ancient Japan made a remarkable advancement in a very short time.

In 745 AD the construction of the great Buddha of Nara began. It stands 15.8m (52.2 feet) tall weighing 380 tons. To make the casting mold took 14 months. To cast the statue several dozen blast furnaces were built around the site. To finish, it took 449 tons of copper, 8.5 tons of tin, 2.5 tons of mercury, and 440kg of gold, and 2,603,000 workers, cumulatively, according to the temple record.

The melting point of copper is 1083 C, but the heat generated by charcoal is 800C. Then a new technology made it possible to raise the temperature to 1000C and to lower the melting point of the copper by adding 2% tin. The statue was then gold plated. It was truly a remarkable feat that such a huge task was accomplished at that early period. In contrast, nowhere in the 8th century world, save Japan, was found such large-scale hi-tech know-how. Today 1300 years after the construction, the towering figure of the great Buddha sits serenely in the immense cavernous hall.

Today that tradition lives on. For example, Japan produces copper of an extraordinary purity (99.999999%), and PCOCC (Pure Crystal Ohno Continuous Casting) copper developed by Dr. Ohno of CIT (Chiba Institute of Technology). This revolutionary copper casting process forms copper crystals continuously without breaks, whereas the conventional process does not.

Now enter HRMCS cables (Helical Round Multi Conductor System). Ortofon Japan, Ltd., a small, but well respected high quality audio cable manufacturing company headed by its president/audio engineer succeeded in producing unprecedented ultra high performance cables.

After countless listening to a wide range of music, HRMCS was selected as the best performer among numerous configurations of test cables using the very best materials available. The unique feature of this cable is a single core wire that is surrounded helically by wires of different sizes in a cylindrical shape. This arrangement completely isolates the positive and negative sides, maintaining the ideal interface distance between the core and the surrounding wire strand. This configuration boosts the efficiency of air-insulation and cancels out the electro-magnetic induction. The HRMCS cables are truly superb performers.

For the past 20 years audiophiles the world over have enjoyed the superb quality of Ortofon cables. The HRMCS cables are available in Premium Series and Reference Series. High Definition Series and Power cables are also available from Ortofon.