



**SHUNYATA RESEARCH**  
SIGNAL CABLES

## COMPLETE CUSTOMIZATION

The Delta Series interconnects inherit all of the fine features from the Venom Series including the exotic Ohno copper conductors. Their performance is notably enhanced with advanced fluorocarbon dielectrics, larger VTX™ hollow-core conductors and superior connectors terminated using Shunyata Research's high-tech sonic-welding process. KPIP™, or Kinetic Phase Inversion Process, makes its first appearance in the Delta Series. KPIP™ is not just another break-in box; rather, it is a truly advanced process that goes beyond simple burn-in and literally conditions conductors, making time consuming burn-in a thing of the past. KPIP™ dramatically elevates the performance of all products to which it is applied. The combined effects of the features found in Delta Series cables delivers a significant improvement in resolution, clarity and coherency. Delta Series cables may represent the sweet-spot in the Shunyata Research line-up with an exceptional price-to-performance ratio.





  
DELTA

## DELTA SPEAKER

Delta Series speaker cables outperform pricier competition with massive 8 gauge, VTX™ (hollow-core), OFE copper conductors. Sonic welded pure copper or gold/copper terminals are available. Shunyata Research's exclusive KPIP™ process eliminates break in.



OFE 101



VTX



KPIP



ArNi



STIS



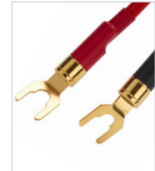
Sonic Welding

WIRE

OFE 8 gauge twisted pair, VTX™, shielded

TERMINATION

Standard: STIS™ interchangeable. *Optional: copper or copper/gold terminals.*



## DELTA XLR

Delta Series interconnects use the finest Ohno Continuous Cast Copper, VTX™ (hollow core) conductors with exotic fluorocarbon dielectrics. Shunyata Research's exclusive KPIP™ process eliminates lengthy burn-in issues.



OFE 101



Ohno



VTX



KPIP



ArNi



Balanced (XLR)

WIRE

Ohno 16 gauge twisted pair, VTX™ geometry, FEP dielectric, braided shielding

TERMINATION

Shunyata XLR, tubular gold pins.





## DELTA RCA

Delta Series interconnects use the finest Ohno Continuous Cast Copper, VTX™ (hollow core) conductors with exotic fluorocarbon dielectrics. Shunyata Research's exclusive KPIP™ process eliminates lengthy burn-in issues.



WIRE  
TERMINATION

Ohno 16 gauge coaxial, VTX™ geometry, FEP dielectric, braided shielding  
Shunyata RCA, gold pins.



## DELTA PHONO

Delta Series interconnects use the finest Ohno Continuous Cast Copper, VTX™ (hollow core) conductors with exotic fluorocarbon dielectrics. Shunyata Research's exclusive KPIP™ process eliminates lengthy burn in issues. A separate CGC Delta grounding cable is included.



WIRE  
TERMINATION

Ohno 16 gauge coaxial, VTX™ geometry, FEP dielectric, braided shielding  
Shunyata RCA, gold pins.



Shunyata Research uses only the highest purity of copper available for the production of its wire products. **OFE Alloy 101** or C10100 is the highest grade of copper with a minimum 99.99% purity and a conductivity rating of 101% IACS. OFE stands for oxygen-free electrolytic and supersedes the term OFHC (oxygen-free high conductivity). C10100 is the only grade of copper that comes with a written certification of purity. Certified by ASTM F68 C10100.



**Ohno** wire, also called PCOCC was invented in 1986 by professor Atsumi Ohno of the Chiba Institute of Technology in Japan. Copper wire is created by an extrusion process that pulls a rod of cold copper through a small orifice which creates multiple crystalline boundaries. By contrast, Ohno wire is made by a process using heated molds that cast a wire to form a single crystalline structure. Ohno wire is well known for its exceptionally pure, grain-free sonic qualities.



Shunyata Research's exclusive **VTX™** conductors are made in the shape of hollow tubes. Since current can only travel through the outer rim on the wire, there are no skin effects or random eddy currents. VTX™ conductors are made from pure OFE C10100 or Ohno (single crystal) copper.



**KPIP™** (Kinetic Phase Inversion Process) was developed by Caelin Gabriel after years of research into the underlying causes of various effects such as burn-in, wire directionality and the effects of cryogenic treatment. He discovered that there was an underlying core principle that burn-in and cryogenics only "partially" addressed. Once the governing principle was understood it became possible to create a processing technique and machine that could virtually eliminate the need for burn-in and cryogenic treatment.



**ArNi**® is a type of wire created by Shunyata Research designed to be the finest quality wire available for audio purposes. It begins with the highest purity of copper available – OFE C10100 or Ohno (single crystal). Then it is formed in virtual hollow tubes eliminating skin effects and eddy current distortions. In addition, the wire undergoes our proprietary KPIP™ process.



**ETron**® is a technology developed by Shunyata Research that prevents dielectric absorption and re-radiation in signal transmission. It requires a special type of conductor that has two signal paths and an electric field compensation circuit that creates a cancellation signal that prevents the insulation from developing a charge. ETron® cables preserve the integrity of the source signal even when using very long runs of cable. Patent US 8,912,436, Patent Ch ZL201180047344.2.



The **STIS**™ speaker terminal system was designed to eliminate the high cost and complication of speaker cable termination. The system makes it possible to use the same speaker cable with a variety of different amps and speakers. If a spade is damaged, you can simply replace it without sending it to the factory for re-termination. STIS™ interchangeable terminals have undergone extensive user listening tests to insure that they provide the finest audio performance that is equal or superior to non-replaceable, soldered terminals.



Crimping, soldering, brazing and cold soldering are all inferior methods of joining two wires or terminals together. **Sonic welding** uses high energy sonic waves to literally join two metals together at a molecular level. There is no solder or intermediary metals involved in the process.



## **SHUNYATA RESEARCH**

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