



# Finwei.cable News

2018-10-31 2018 Wire Dusseldorf 2018-09-14 2017 Wire Southeast Asia

2018-03-13 Welcome to our brand new site!



#### Jinwei Wire & Cable Co.

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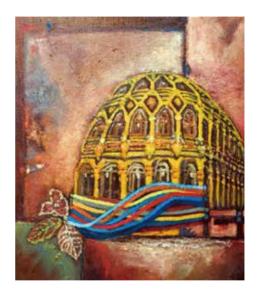
# Finwei.coble About us

Jinwei Cable was established in 1995 making high performance hi-end audio cable. Our main objective has been to research and develop audio quality and obtain an extremely high definition sound reproduction, with an aesthetic cable. always having in mind the endusers standards.

Many people have asked why we make such complex cable? The reason is simply to challenge us to attain perfection. Whatever type, be it speaker, audio, video, microphone or power cable, a subtle difference in the material and construction will produce a diverse sound result. A superior innovative cable that we produce gives us motivation to reach ever higher for that flawless clarity in sound. On the other side, a high performance, and sophisticated cable is always made by designers willing, through their ingenuity to overcome the many technical conflicts when introducing new products.

From our accumulated years of experience, we realise how important it is to produce safe and enviorment friendly goods, that is why we have the approval of the UL,CSA and ISO-9001 standards of quality and safety, along with the ROHS regulations for material standards.

Our goal is to cross the boundary, and create products that are individual. creative, and unique at competitive prices so that every music enthusiast can really appreciate that ultimate perfect audio sound.









Power Cables

▶ Installation Speaker Cable



# AD-900 High Purity Silver

High Purity Silver
Multi (Snake) Cables
Plated Copper

Lize Wire Headphone & Turntable Cables

Car Power Cables

(DMX · VGA.....etc.)

Connectors & Accessories





#### AD-900

High Purity Silver Plated Copper Lize Wire



#### AD-900

High Purity Silver Plated Copper Lize Wire



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Entry to Mid Range Interconnect Cables



Microphone Cables

High Purity Silver
Multi (Snake) Cables
Plated Copper

Lize Wire Headphone & Turntable Cables

Car Power Cables

(DMX \ VGA.....etc.)





AD-900

High Purity Silver Plated Copper Lize Wire



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# AD-900 Cables

High Purity Silver Multi (Snake) Cables Plated Copper

Lize Wire Headphone & Turntable Cables

Car Power Cables

(DMX \ VGA.....etc.)

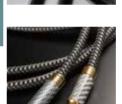


Plated Copper Lize Wire



#### AD-900

High Purity Silver Plated Copper Lize Wire



#### AD-900

High Purity Silver Plated Copper Lize Wire





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# Finwei.coble Products



AD-900 High Purity Silver Plated Copper Lize Wire



AD-900 High Purity Silver Plated Copper Lize Wire



AD-900 High Purity Silver Plated Copper Lize Wire



AD-900 High Purity Silver Plated Copper Lize Wire





# Finwei.cable Products



Diamond Tinning dies						
With Titanium casing for tin	1	1	1	1	1	

<<BACK



coating, which has two standard

casing sizes

# Jinwei.coble Tech Conductor technology W-how

#### **Copper Comparison**

Jinwei.cable

# 6N(99.9999%) High Purity Copper.

Cable using OCC (Ohno Continus Casting) Copper have an obvious audible advantage over cables comparing with OFC. In fact, the only difference between the reference and transcendent is the conductor materials themselves. The key elements that determine a conductor performance are: the purity of material and the area of grain boundaries. A grain boundary is the meeting point between two grains or crystals of metal. Grain boundaries tend to scatter and to impede the flow of electrons and act as a non-linear resistance to the flow of electric current. These grain boundaries cause the same type of irritating distortion as current crossing from strand to strand. The fewer boundaries, the less the effect on an electric signal as it propagates from one end of the conductor to the other.

OCC : A very high purity (6N) oxide free copper (<8ppm) conductor with larger and linear crystal structure are introduced to cable usage

Oxygen free copper (OFC) has hundreds of crystal-boundaries per centimeter. OCC copper crystals can be several metres long, resulting in an outstanding

OCC are produced through a vertical vacuum continue casting technique (OCC) with a special design which can manufacture ultra-purified and very large linear crystal copper wire.



OFC Transverse Section 100x



OFC Transverse Section 100x



OFC Transverse Section 100x



OFC Transverse Section 100x



### **Petented TFC Tecf**

### TFC (TWISTED FLAT COPPER) PATENT TWISTED **TECHNOLOGY**

TFC(Twisted Flat Copper) series cable is a new outstanding cable technology for the hi end audio cable market , maximizing sound performance and minimizing  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

Unlike the traditional round cable conductor in appearance, Jinwei has utilized ultra thin flat copper foil, and formed a corkscrew shape by using a unique process, and taut transparent PVC insualtion keeps it in a stable position, producing precise sound clarity definition and a pure polished appearance

Comparing it to a normal stranded copper conductor. TFC has a bigger surface area which allows it to carry substantial transmission, which means that the "skin effect" (i.e. the current density near the surface is greater than its core) has a lower resistance at high frequency, and represents exceptional treble control.

Jinwei has developed this unique shape to create comprehensive flecibility, and has obtained various patents from the US, EU, Taiwan and China: EU patent No.001824756-0001, No.402010002099.5; US patent No.D679253S, Taiwan patent No.D149328, No.D136895, No.D133414, No.M370813, No.M362497; China patent No.CN302010048S, No.CN201440346u.

Various innovative designs development and new patent applications are on-going at Jinweil

# **DCT Technology**

#### **Deep Cryogenic Treatment**

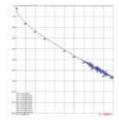
Deep Cryogenic Treatment (DCT)is our own proprietary cryogenic process developed specifically for the treatment of the audio wire used in the manufacture of copper cable productss.

Our Cryo wire is subjected to a precision deep cryogenic treatment in which the copper cable is slowly super-cooled (below -300°F below zero),held within I degree for number hours and then sloely brought back to room temperature at 1 precisely controlled rate

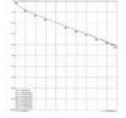
The benifits DCT for audio cable are spectacularly increased electric conductivity (IACSI), greater detail and transparency in the soundstage, and more accurate dynamic rsponse throughout the audible range. It also can decrease propagation (insertion) lass in the signal path.

To test for this technology we used measure of coaxial insertion lass the difference when using the two cables (on DCT, the other not). Figure shows the propagation (insertion) lass curves of cables before / after DCT Treatment It is clear that the disparity in frequency response is decline 5-10% across the entire audiblefrequency range

#### Before DCT



### After DCT





- - Please Select - -





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# Jinwei.coble Q&A

# Q1: What is there a difference between the different cables —interconnects, speaker cables, and power cables?

#### Different Cables have different performance :

es difference, and wrong cable makes wrong result, the difference is obviously to be heard or looked.

In a low-end system, the cable may not cause an obvious big difference; whereas high end audio system equipment needs good quality cables to reproduce high quality sound which the quipment is made for

Speaker Cable makes a greater difference than Interconnect Cable , because Speaker Cable normally has a longer length , it is easy to hear sound's change from different speaker cables.

Interconnect cable also makes a difference as it transmits a precise signal. A good Interconnect cable allows you to hear individually the clarity of each sound and

Power Cable is often undervalued, if the cable is supplying a large audio system, the power required to feed it is much greater thus requiring a much-more rob

#### About Speaker Cable :

The Right Conductors & Cable Structure are the key designs to enhance power output, balance the bass, mediant or treble and maximize the sound quality OFC(Oxygen Free Copper) or TC(Tinned Copper) are the basic and price budget conductors, the most basic and popular items for entry level are 2 cores of 5mm2(16AWG),2.5mm2(14AWG)and 4.0mm2(12AWG), these are major used in installation

Nowadays , some manufactures use CCA(Copper Clad Aluminum) to kill prices , CCA is ok to use for high frequency application , such as CATV cables , but if it is used for speaker cable or power cable , the performance will be very poor.

For the mid to high end level, the conductor size can be much larger (10mm2/7AWG or even larger) depends on the speakers and budget, and expensive materials are often used , such as SPC(Silver Plated Copper, 4 times expensive than OFC) , OCC(6N purity copper, 6 times higher than OFC), Pure Silver(200times higher than OFC) are also utilize

# Q2: What about metals—copper versus silver versus gold versus what? How about blends?

### Metal Conductors:

Silver is the fastest conductivity metal (IACS 105%) in the world and it has lower resistance, (Silver 16 < Copper 17 < Gold 22 nOhm-m), so that it is often used in high end interconnect cable to give a rapid signer! transfer. It is also widely used in high end speaker cable and power cable, but as the sizes are much larger, the

Copper is the 2nd conductivity metal(IACS 100%) and then Gold 3rd(IACS 80%). Generally , Silver helps to produce a faster treble sound , copper improves the bass , and gold is more widely used in Connector plating as it won't oxygenate . OFC(Oxygen Free Copper) or TC(Tinned Copper) are the basic entry level budget conductors; some expensive materials are often used in audio cable , such as SPC(Silver Plated Copper, 4 times more expensive than OFC) , OCC(6N purity copper, 6 times higher than OFC), Pure Silver(200times higher than OFC); along with many others conductors that also can be utilized

#### Blending/Mixing different conductors:

etals can be deigned in to conductor aggregating ,and this is more common in Speaker cable or Power cable because more copper wire used ; such as mixing OFC & SPC is designed to balance the treble and the bass

But it is difficult to define what is better between mixing or non-mixing conductors, many other designs details can give a greater or smaller result

#### Q3: What about measurements? What do they tell us?

nent is more important in Interconnect cable or some digital or in computer cables, such as HDMI, Cat cables..etc, because the signal is transferred by precise counts, so if the measurement figures are good, basically we can say it is a good quality cable

For speaker cable or power cables , a good result of measurements is not the only prove the designed cable is efficient. But as an audio system always needs to be adjusted different systems and accessories to get the best quality, the most important thing to be considered is the system adjustments

### Q4: And geometry-ribbon, twisted, braided, spiralled? Why shielding? Why not shielding? Twisting:

The Twisting process is used when there are more than 2 cores, The benefit of twisting is to neutralize the electromagnetic field between 2 or more cores; another function is to make the cable round shaped like normal cable

# Braiding & Spiraling & Shielding:

These three processes are about isolating and reducing the EMI(Electro-magnetic Interference) and the RFI(Radio Frequency Interference), which help to lessen

# Q5: What about cable lengths? Why are/aren't they important?

#### Lengths of cables:

Length is very important in many types of cable signals or power transits , in short lengths it may not cause a big difference , such as a 28AWG HDMI performs very well if it is under 5 meters long but it is difficult to reach the same performance if it is more than 5 meters , this is due to the signal loss , longer distances require

Imagine a sports car which can drive up to 240mpr, but you always drive under 100mpr; if you never drive it at his higher speed, it's performance will never be revealed

# Q6: Which cables do the experts use while listening? Do our cables have any success

## Which cables do the experts use while listening?

This is a question that cannot be answered . Our customers are always adjust their systems by testing various accessories . Sometimes the best results come from normal OFC conductor or simple designs instead of high end more expensive products

### OEM for world famous brands with NDA:

As a professional cable manufacturer, we produce OEM for many world famous brand companies, unfortunately, we are unable to tell who they are as we have NDA(NON-Disclosure Agreement) with most if them , and many have won awards in world professional competitions or magazines, such as "What's Hi-Fi", Sound & Vision ... So to protect our customers and keep long term relationship , we will not go against or damage our customers' markets.

For new customers who would like to enter this audio market , we will give our best attentions to help them to understand the market and give them technical support. Many of our current larger customers nowadays were only small companies 10 years ago

# Q7: What innovations have been made recently?

ls, and up-to-date technical Know-how .The latest products are TFC(Twisted w products are being introduced on a regular basis, from cable construction, materia Flat Copper )series , for which we have the EU , Taiwan and China patents, but the patent rights and numbers cannot be used without Jinwei's legal agreement. Other products that we are at very advanced stage in developing are our solar cable products, please visit our New Website for further information: www.solarcable.com.tw

## Q8: How is the quality control carried out during the production?

achinery and updating training skills





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