

# FURUTECH

PURE TRANSMISSION



## Project V1-L

*Alpha OCC-DUCC / Silver-Coated  $\alpha$  (Alpha) OCC Conductors*

Featuring NCF & Refined carbon fiber composite materials crafted through a specialized forging process.

Furutech's Top-of-the-line High Performance Line Cable



*Project V1-L-XLR*



*Project V1-L-RCA*

Introducing the Furutech Project V1-L, the pinnacle of high-end audio grade interconnect cables, meticulously crafted to elevate your audio system's performance to unprecedented heights. Engineered with the same precision and unwavering commitment to exceptional sound quality as the Project V1 power cord and the Project V1-T tonearm cable, this interconnect cable promises an extraordinary level of detail, transparency, and sonic accuracy in your music reproduction.

At its core, the Project V1-L features Furutech's hybrid  $\alpha$ (Alpha) silver-coated OCC inner conductor and  $\alpha$ (Alpha) DUCC outer conductor, the same specialized copper used in the Project V1. These conductors undergo a unique cryogenic and demagnetizing process, ensuring unparalleled conductivity and signal purity. The result is an immersive and lifelike audio performance that caters to dedicated audiophiles and professional sound engineers alike.

To further enhance audio quality and maintain pristine signal integrity, Furutech has incorporated their NCF (Nano Crystal<sup>2</sup> Formula) technology into the construction of this interconnect cable. This advanced technology effectively eliminates any noise or interference, allowing you to experience an unrivaled clarity, dynamics, and depth in your music.

Meticulously constructed using high-quality materials and engineering techniques, the Project V1-L features a multi-layered sheath consisting of high-grade insulation and a vibration-damping layer, akin to the tonearm cable. This construction prevents external interference, ensuring the highest quality audio transmission and minimizing signal degradation.

Furutech builds each and every cable in their line with optimized engineering solutions, advanced materials, and utterly meticulous build quality for the ultimate test. The Project V1-L series Line Cable achieves its remarkably quiet soundstage and transparent presentation with its hybrid  $\alpha$ (Alpha) silver-coated OCC inner conductor,  $\alpha$ (Alpha) DUCC outer conductor, three-layer shielding, double-layer sleeve, and filler. Additionally, a specially engineered cable damping ring improves grip and avoids potential distortion.

The Project V1-L series special connectors, including RCA/XLR connectors and Cable Damping rings, incorporate Furutech's special antistatic and antiresonance NCF material combined with high-grade nylon insulation. Connector conductors are formed with nonmagnetic rhodium coated  $\alpha$ (Alpha) pure copper secured in bodies insulated with NCF. The housings of these special connectors and Damping Rings are formed with 4-layer hybrid NCF carbon fiber, finished with a special hardened clear damping coating.

Elevate your audio system to new heights with the Furutech Project V1-L and unleash the true potential of your music, achieving verisimilitude to the original event, a sense of engagement promoting suspension of disbelief, and an immersion in the audio experience. Engage effortlessly with meticulous preparation of the entire playback chain, especially including cables, and most importantly, at the signal source.

### ***Nano Crystal<sup>2</sup> Formula (NCF)***

Incorporated into selected Furutech products, NCF features a special crystalline material that has two 'active' properties. First, it generates negative ions that eliminate static. Second, it converts thermal energy into far infrared. Furutech combines this remarkable material with nano-sized ceramic particles and carbon powder for their additional 'piezoelectric effect' damping properties. The resulting Nano Crystal<sup>2</sup> Formula is the ultimate electrical and mechanical damping material. Created by Furutech, it is found exclusively in Furutech products.

## Project V1-L Cable Design

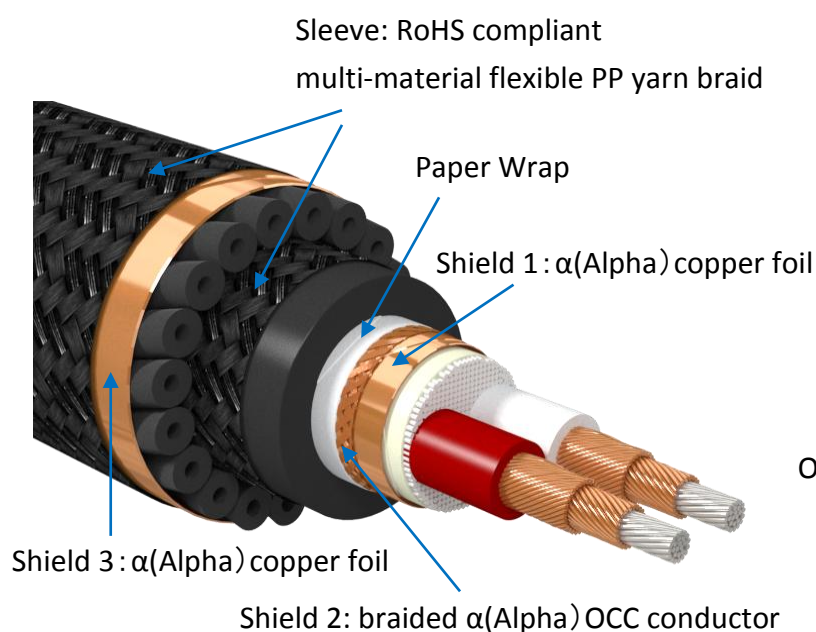


### ***Specially designed Sleeve:***

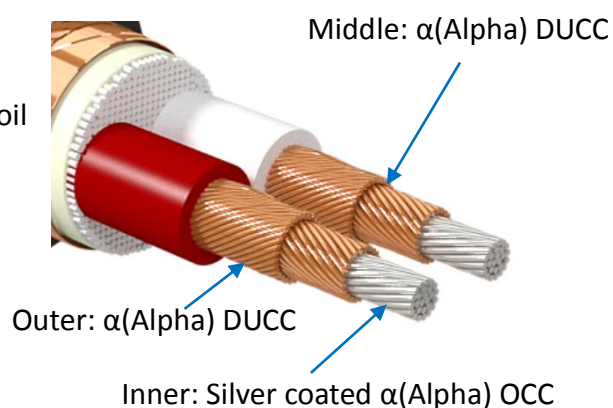
Designed to limit resonance and stress on the cable while remaining flexible, the special sleeve features high-grade soft damping polypropylene and cross weaved hard fiber. (0.02mm soft polypropylene / 0.2mm hard polypropylene)

## ***Balanced Interconnect Cable***

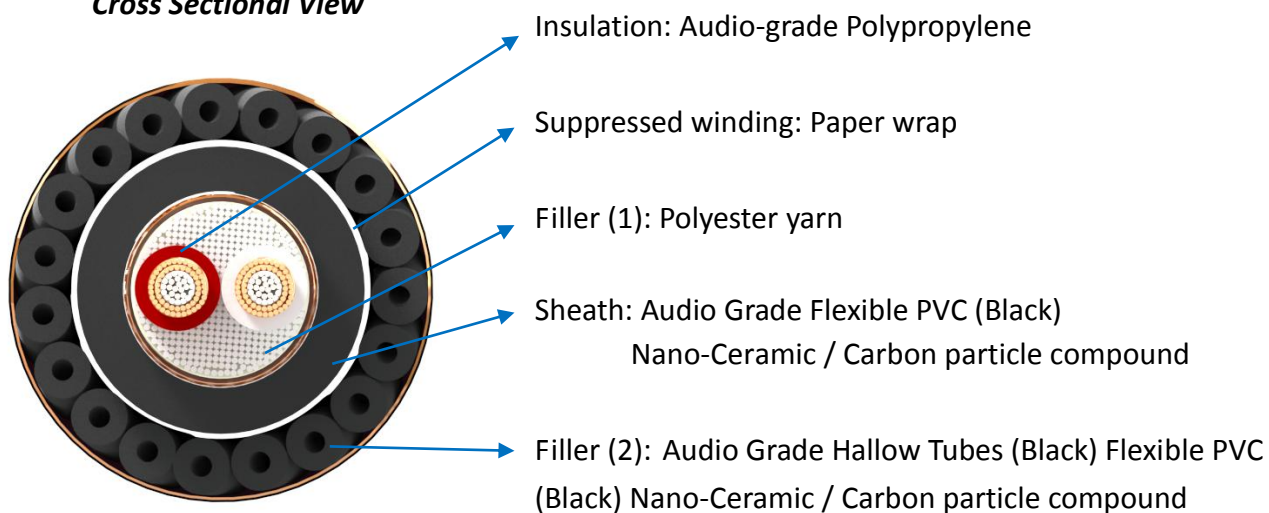
### ***Cable construction image***



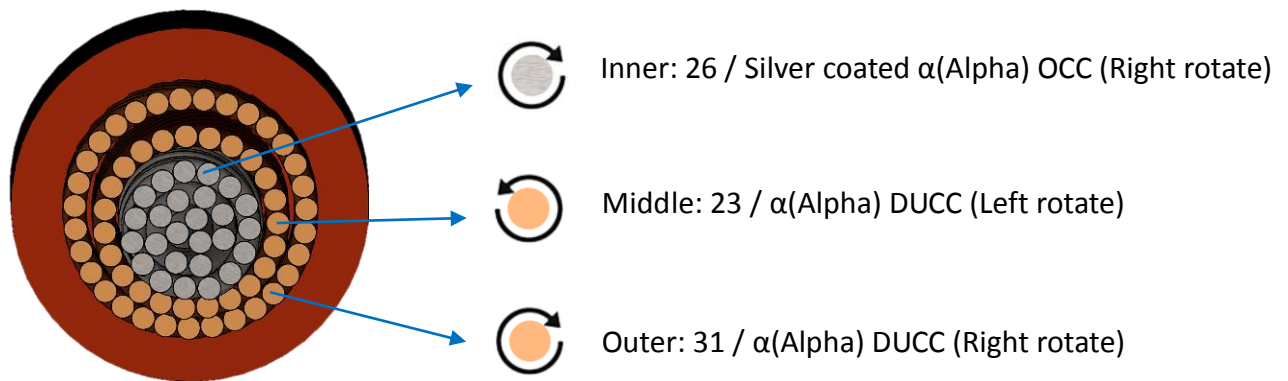
### ***Conductor material explanation***



### ***Cross Sectional View***



### Enlarged conductor strand direction image



### Project V1-L Cable Specifications:

| Item                           |                       | Specification                                                                                                                                                |
|--------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor                      | Material              | Silver-Coated $\alpha$ (Alpha)-OCC + $\alpha$ -DUCC (7N Class)                                                                                               |
|                                | Construction (pcs/mm) | Inner - 26/0.18 Silver Coated $\alpha$ -OCC (Right rotate)<br>Middle - 23/0.18 $\alpha$ -DUCC (Left rotate)<br>Outer - 31/0.18 $\alpha$ -DUCC (Right rotate) |
|                                | Size                  | 14AWG / 2.0 Sq.mm                                                                                                                                            |
| Insulation                     | Material              | Audio Grade Polypropylene, PP (Red for "+" 、 White for "-")                                                                                                  |
| Twisting                       | Method                | 2 Cores Twisted Together                                                                                                                                     |
| Fillers (1)                    |                       | Polyester yarn                                                                                                                                               |
| Barrier Layer                  |                       | Non-Woven Fabric wrap                                                                                                                                        |
| Shield(1)+(2)<br>Double Shield | Method                | Cu-Foil wrap + Braided (24×6 / 0.13 $\alpha$ - OCC) + Paper wrap                                                                                             |
| Sheath                         | Material              | Audio Grade Flexible PVC (Black)<br>Nano-Ceramic / Carbon particle compound                                                                                  |
| Sleeve (1)                     | Material              | Black PP yarn (0.02 soft yarn+0.2 hard yarn)                                                                                                                 |
| Diameter (mm)                  |                       | 10.0 Approx.                                                                                                                                                 |
| Fillers (2)                    |                       | Audio Grade Hallow Tubes (Black) Flexible PVC<br>(Black)Nano-Ceramic / Carbon particle compound                                                              |
| Shield(3) Barrier Layer        |                       | Cu-Foil wrap                                                                                                                                                 |
| Sleeve (2)                     | Material              | Black PP yarn (0.02 soft yarn+0.2 hard yarn)                                                                                                                 |
| Overall Diameter (mm)          |                       | 14.0 Approx.                                                                                                                                                 |

### D.U.C.C. (Dia Ultra Crystallized Copper)

The  $\alpha$  (Alpha) OCC – DUCC is meticulously crafted using a blend of DUCC Ultra Crystallized High Purity Copper and Furutech's renowned Pure Transmission  $\alpha$  (Alpha)-OCC. Furutech sources the DUCC Ultra Crystallized High Purity Copper from Mitsubishi Materials Industries, ensuring strict quality control and a regulated supply for optimal signal transmission.

This exceptional conductor material, DUCC Ultra Crystallized High Purity Copper, is recognized as one of the finest by Furutech engineers. Mitsubishi employs cutting-edge technology to process this extremely pure, oxygen-free copper, aligning the crystals with precision and minimizing crystal-grain boundaries. The result is an extraordinarily efficient conductor that significantly enhances signal transmission.

Furutech combines DUCC with their world-famous Pure Transmission  $\alpha$ -OCC, creating an optimized dual conductor configuration. This configuration undergoes Furutech's Alpha Super Cryogenic and Demagnetizing process, further elevating purity and conductivity to an advanced level. The meticulous treatment of this dual conductor setup ensures a substantial enhancement in performance and signal integrity.

***D.U.C.C. is a registered trademark of Mitsubishi Cable Industries Ltd.***



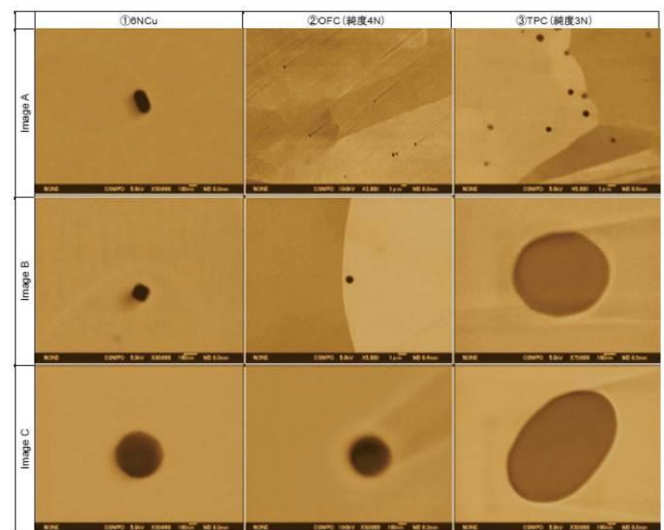
D.U.C.C.



一般的なOFC

D.U.C.C. と一般的なOFCの金属組織の比較

Comparison of microstructures of D.U.C.C and typical oxygen free copper conductors



純銅中に観測された不純物の COMPO 像

Compo image of impurities observed in high purity coppers

***Project V1-L version series connectors shown below.***



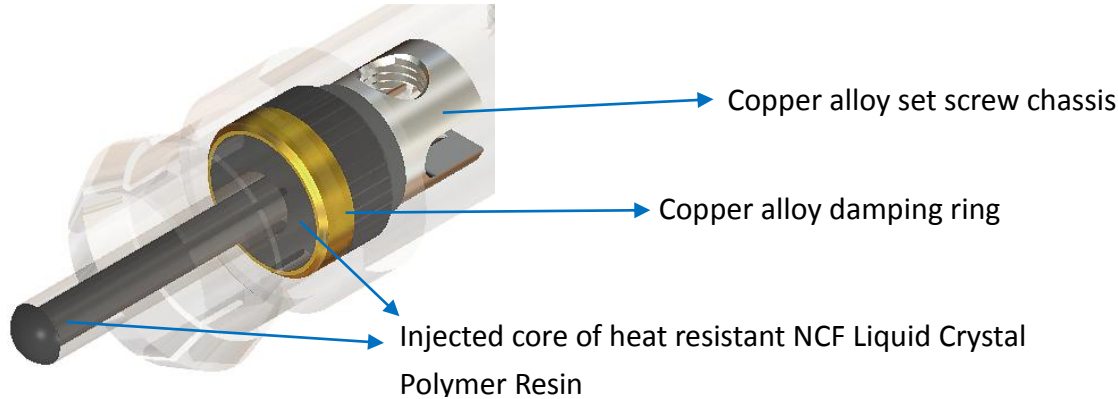
CF-102 NCF(R)-P



CF-601M / 602F NCF(R)-P

**Features for CF-102 NCF(R)-P (Project V1-L version RCA connector)**

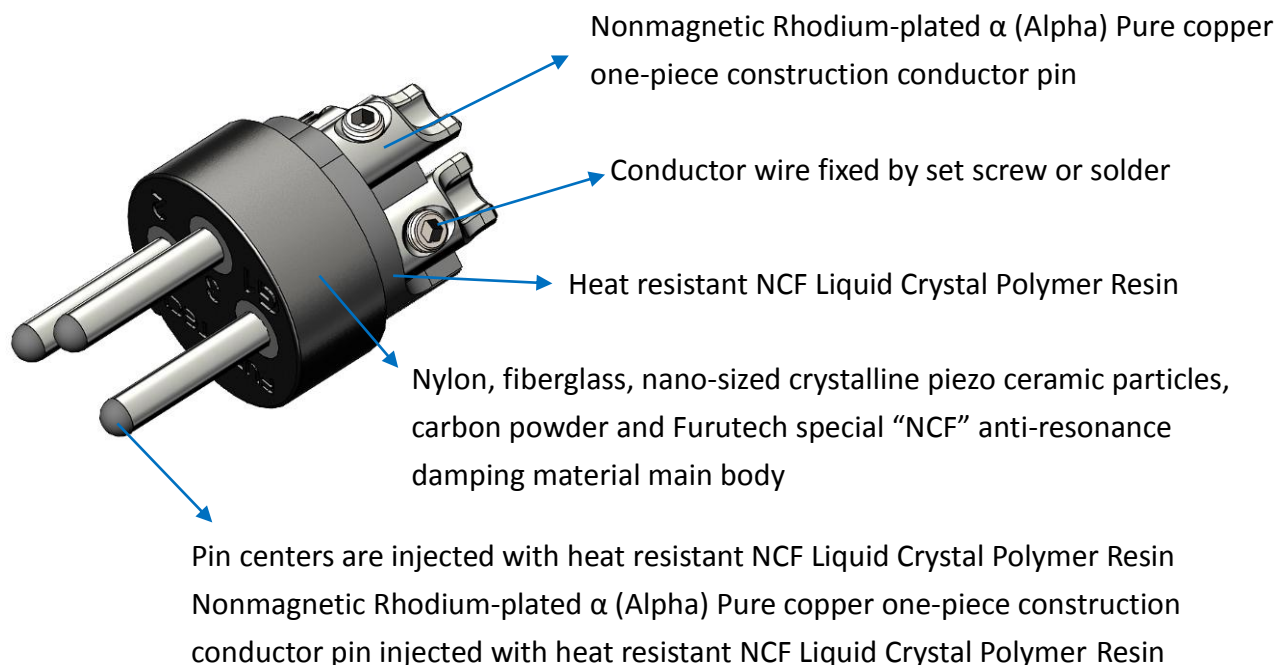
- $\alpha$  (Alpha) OCC Nonmagnetic Rhodium-plated one-piece construction conductor pin injected with Furutech's ultimate anti-static and resonance damping material – NCF. NCF delivers improvements in the depth and focus of the sound stage, harmonics and tonal balance. Low frequencies are cleaner, with a greater sense of definition made possible by a lowered noise floor.



- $\alpha$  (Alpha) Copper Alloy Nonmagnetic Rhodium-plated Body.
- Nonmagnetic stainless steel and special textured carbon fiber finished housing. The best of damping and insulation materials improve frequency extension and tonal balance.

**Features for CF-601M NCF(R)-P (Project V1-L version XLR connector)**

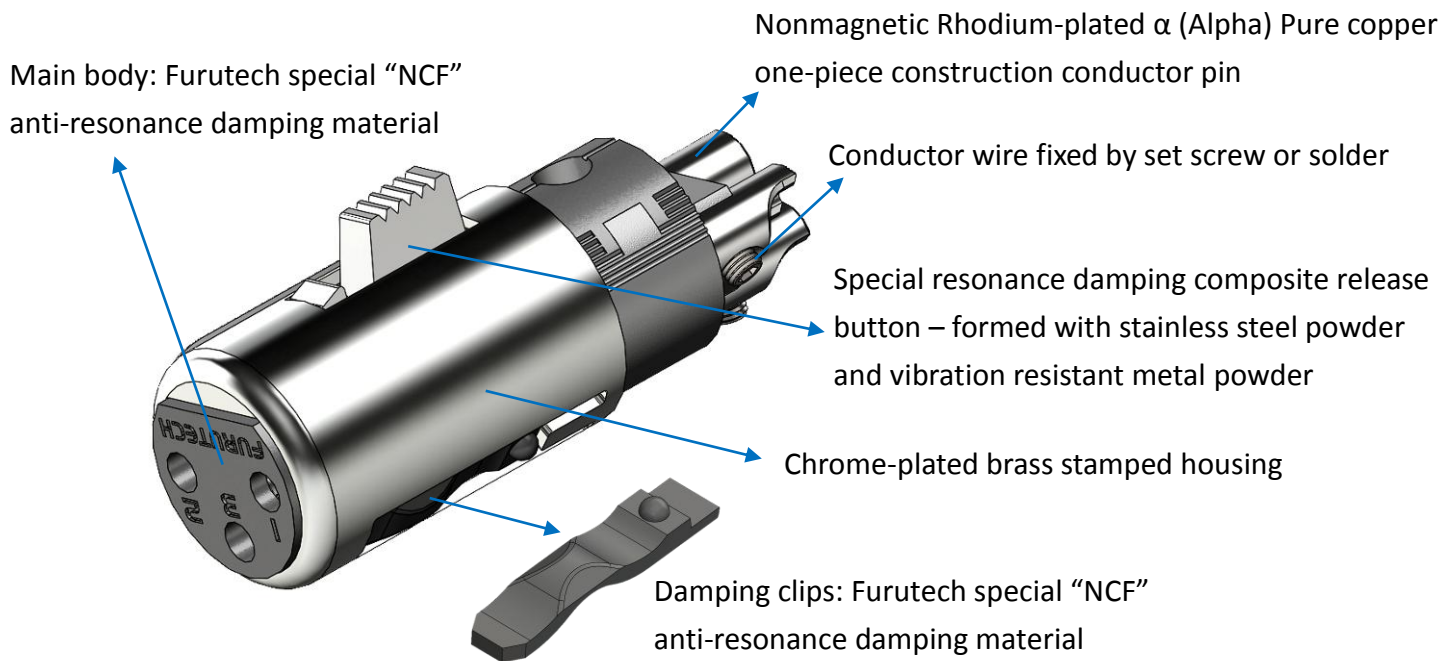
- Nonmagnetic Rhodium-plated  $\alpha$  (Alpha) Pure copper one-piece construction conductor pin injected with heat resistant NCF Liquid Crystal Polymer Resin.



- Furutech special "NCF" anti-resonance damping material main body combine heat resistant NCF Liquid Crystal Polymer Resin. NCF delivers improvements in the depth and focus of the sound stage, harmonics and tonal balance. Low frequencies are cleaner, with a greater sense of definition made possible by a lowered noise floor.

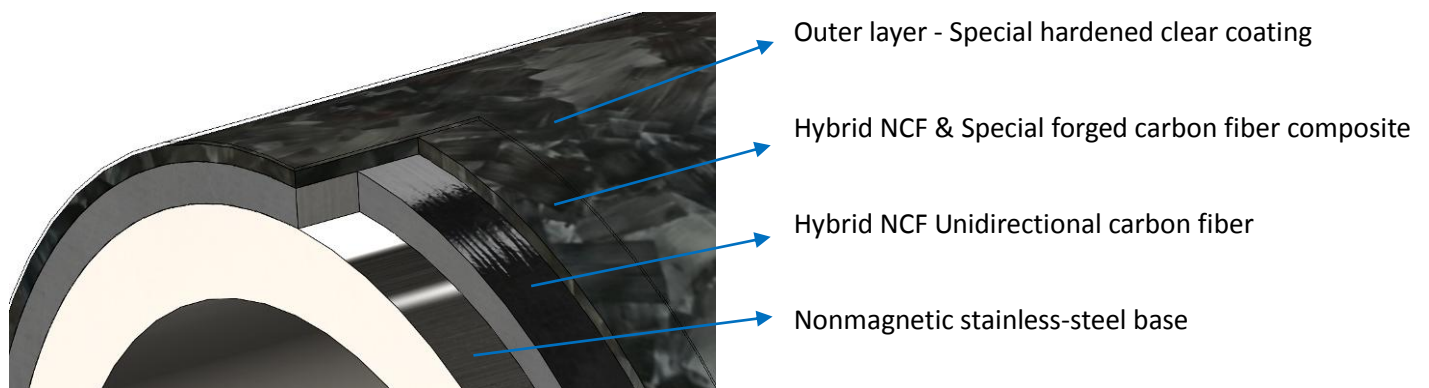
### Features for CF-602F NCF(R)-P (Project V1-L version XLR connector)

- Rhodium-plated  $\alpha$  (Alpha) Pure copper one-piece construction conductors.



- Furutech special "NCF" anti-resonance damping material main body combine heat resistant NCF Liquid Crystal Polymer Resin. NCF delivers improvements in the depth and focus of the sound stage, harmonics and tonal balance. Low frequencies are cleaner, with a greater sense of definition made possible by a lowered noise floor.

### Project V1-L version Multilayer Housing Design



### ※Special feature:

Carefully engineered cable damping ring improves grip and reduces mechanical and electrically induced distortion.



**Specifications:**

- Multi-material Hybrid conductor with special 3 tier concentric design.
- Specially designed Sleeve.
- Sound enhancing, resonance damping, double sleeve, 3 shield design.
- Insulation : Audio-grade Polypropylene.
- RoHS complaint Nano-ceramic and carbon powder damping material.
- cable outer diameter: 14.0mm
- Length : 1.2M Approx.

| Product name     | Product Introduction                               | Jan Code       |
|------------------|----------------------------------------------------|----------------|
| Project V1-L-RCA | Top-of-the-line High Performance Line Cable (1.2M) | XXXXXXXXXXXXXX |
| Project V1-L-XLR | Top-of-the-line High Performance Line Cable (1.2M) | XXXXXXXXXXXXXX |

*All metal parts are treated with \***FURUTECH**  $\alpha$  (Alpha) Process (Super Cryogenic & Demagnetize Treatment.)*

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**FURUTECH CO., LTD.**

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