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FURUTECH 全新奈米結晶配方 – Nano Crystal² Formula

October 2015

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High End Audio Online Magazine



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Leo Yeh , MY-HIEND, FURUTECH , NEWS, 仲敏

日本 Furutech 發表了全新的「奈米結晶配方」 – Nano Crystal² Formula (NCF)，首先問市的產品有 FI-50M NCF(R)、FI-50 NCF(R)電源公母插頭、GTX-D NCF(R)電源插座及 FI-06 NCF(R) AC 電源座。奈米結晶配方 NCF 為一種特殊的結晶粉末(Powder)材質，具有兩個活躍(active)的特性。首先 NCF 能產生負離子以減少靜電，其次，NCF 能將熱能轉換成遠紅外線，讓其成為絕佳的電子與機械上的阻尼材質，進一步強化了震動吸收，NCF 將 Furutech 純淨傳導訊號(Furutech Pure Transmission signal)的理念提升到一個全新的境界。

FI-50M NCF(R)、FI-50 NCF(R)電源公母插頭



FI-50M NCF(R)



FI-50 NCF(R)

FI-50 NCF 採用鍍銻無磁的導體，為標準的水、火、地設計，為 Furutech 首先使用 NCF 壓電陶瓷(Piezo Ceramic)材料的系列，並應用了許多 Furutech 自家的獨創技術。多層的無磁不鏽鋼與鍍銀的碳纖維電源殼本體，並注入共聚甲醛(acetal copolymer)產生阻尼與絕緣效果，材質的選定這都經過日本主要的專家與資深的發燒友實際聆聽測

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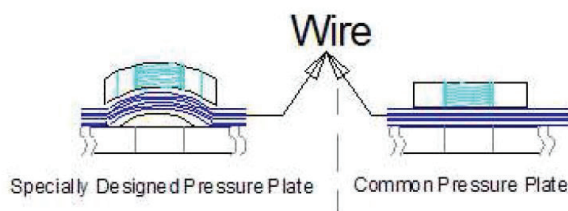
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浮動磁場效果技術 (Floating Magnetic Field Effects)

FI-50 NCF(R)上運用了接地跳線系統(Earth/Ground Jumper System)，為了達到純淨傳導的最高品質，Furutech 的工程師將會產生 EMI 電磁干擾的金屬部份(如螺絲)進行了接地處理，如此一來，電流經過傳導接頭所產生的電磁與電場干擾就得到解決。在 Furutech NEMA 系列的電源公母插頭上也都使用了接地跳線系統，此技術的美國與歐洲專利號碼分別為 US Patent No. 6,669,491 / European Patent No. EP1445837。

Furutech 特殊的導體鎖緊結構

Specially Engineered Wire Clamp



FI-50 NCF(R)規格

- α (Alpha) Pure-Copper Rhodium-plated Conductor
- Earth (Ground) Jumper System (US Patent No.: 6,669,491 / European Patent No. EP1445837)
- Nylon/fiberglass body with a special anti-resonance nano-sized crystalline, piezo ceramic particles and carbon damping material
- Multilayered nonmagnetic stainless steel and silver plated carbon fiber housing incorporating an acetal copolymer. The best of damping and insulation materials improve frequency extension and tonal balance
- Specified for cable diameters from 6mm to 20mm
- Dimensions:
 - FI-50 NCF Body length 44mm x 34.5mm diameter / 80.3mm overall length
 - FI-50M NCF Body length 40mm x 34.5mm diameter / 76.2mm overall length
- Metal cable clamp improves grip and reduces mechanically and electrically induced distortion
- Rating: FI-50 NCF—15A 125V /10A 250V AC, FI-50M NCF—15A 125V AC

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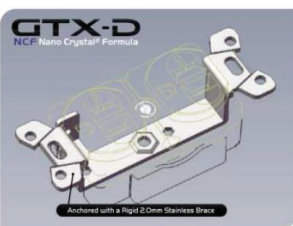
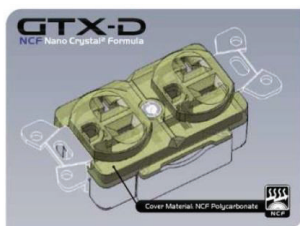
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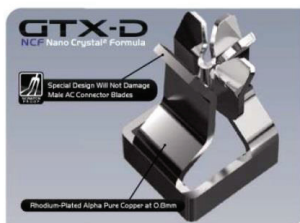
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GTX-D NCF(R)電源插座

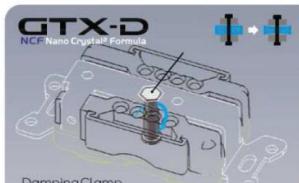
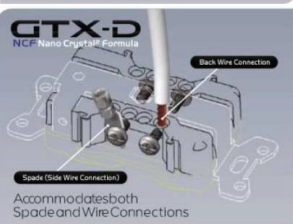
將 NCF 應用在 Furutech 最頂級的 GTX-D 電源插座上。許多人喜歡純銅製的插座，但是純銅的延展性導致其硬度不足，因此通常都會在外面鍍上一層類似磷青銅或是黃銅。Furutech 使用了業界最先的技術，使用了純銅鍍銻 (rhodium-plated α (Alpha) pure copper) 擁有更好的傳導性。此外 GTX-D NCF 還使用了創新的無磁不鏽鋼導體支撐系統 (Stainless Steel Conductor Spring System)，不僅穩固，而且不會傷到導體表面的鍍層，GTX-D NCF 的結構方面取得美國專利 Patent No.Us 8,133,064 B2。



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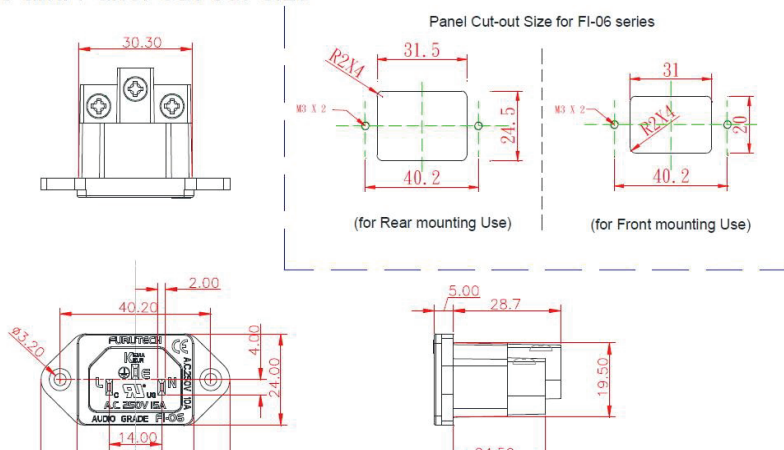
GTX-D NCF(R) 規格特點

- Rhodium-plated α (Alpha) Pure Copper Conductor (0.8mm) Nonmagnetic stainless conductor spring system
- Body material: Nylon/fiberglass with a special anti-resonance nano-sized crystalline, piezo ceramic particles and carbon damping material
- Cover material: Polycarbonate with a special anti-resonance nano-sized crystalline material “NCF”
- Parts set with nonmagnetic 2.0mm-thick stainless brace plate
- Specified for wire diameters of 4mm (set screw)
- Dimensions: 104.0 mm (L) x 47.2 mm (W) x 28.0 mm (H)
- Total attention to detail and build quality extends right down to a specially designed patent-pending conductor
- pressure plate (see below) that increases contact area
- Furutech spade terminal FP-205 recommended for 10 AWG wire

FI-06 NCF(R) AC 電源座



Dimensions and Panel Cut-out Size



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FI-06 NCF(R) 特點

- α (Alpha) Pure-Copper Rhodium-plated Conductor
- Materials: Nylon/fiberglass with special “NCF” anti-resonance damping material – nano-sized crystalline, piezo ceramic particles and carbon powder
- Specifications: Accommodates wire diameters up to 3.5mm (set-screw)
- Dimensions: 50.5 (W) x 23.9mm (D) x 33.5mm (H) ± 0.1 mm
- Rated: 15A/250V

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