

FURUTECH

PURE TRANSMISSION



The Furutech Flux-50 NCF Inline Power Filter



Nano Crystal² Formula - Nano Crystalline, Ceramic, and Carbon Powder

Incorporated into select Furutech products, the Nano Crystal² Formula (NCF) consists of a special crystalline material with two "active" properties. First, it generates negative ions that eliminate static, and second, it converts thermal energy into far-infrared radiation. Furutech combines this remarkable crystalline material with nano-sized ceramic particles and carbon powder, which provide additional "Piezo Effect" damping properties. The resulting Nano Crystal² Formula is the ultimate electrical and mechanical damping material, exclusively available in Furutech products.

AC Power Can Make or Break Your System

The quality of the audio you hear from your home entertainment system is directly linked to the incoming electricity. The often violent fluctuations and interference on the AC line and its grounding can significantly impair the performance of your components.

The Flux-50 NCF is a sophisticated, luxuriously designed inline power filtering unit that addresses many common issues caused by contaminated electrical power lines. It provides protection against distortion from ground noise, voltage spikes and sags, and high-frequency noise from other components within your system. It also reduces digital noise from processors and digital interconnects.

Key Features of the Flux-50 NCF

The Flux-50 NCF features the Innovations Award-winning FI-50 NCF (R) power connector. This connector combines three "active" materials: nano-sized crystalline particles, ceramic particles, and powdered carbon. Additionally, nylon and fiberglass are integrated to create an extremely effective, mechanically and electrically non-resonant connector body, making it one of the most sophisticated connectors in the world. It also incorporates the AC-1501R EMI-filtering system with Neo Damper technology.

The Flux-50 NCF Inline AC Filter reduces noise across every component it is used with, resulting in natural, highly detailed sound with an impressively silent noise floor. It enhances soundstaging, improves imaging, and delivers musical highs, a captivating midrange, tight and controlled bass, and abundant power and dynamics.

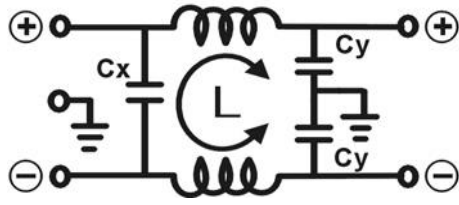
Product Features:

- Designed for connection between power cables and power distributors or between power cables and components, eliminating and preventing radiated AC noise.
- Equipped with Furutech's top-tier Nano-sized Crystalline Piezo Ceramic rhodium-plated α (Alpha) non-magnetic FI-50 NCF (R) connector.
- Features the AC-1501R EMI-filtering IEC with rhodium-plated α (Alpha) non-magnetic copper alloy conductors.
- The AC-1501R EMI filter includes a parallel circuit with an in-line coil and condenser, reducing noise by 10dB at 1MHz and over 30dB at 10MHz.
- Utilizes the Floating Field Damper (Earth/Ground Jumper System), U.S. Patent No.: 6,669,491.
- Incorporates a patent-pending metal cable clamp that improves grip and minimizes mechanically and electrically induced distortion.
- Features an α (Alpha) conductor shield that protects against radiated noise.
- RoHS-compliant audio-grade flexible PVC sheath, designed to enhance vibration isolation.
- Special audio-grade PE insulation to reduce capacitance.
- Includes Furutech's proprietary passive GC-303 EMI filtering material.

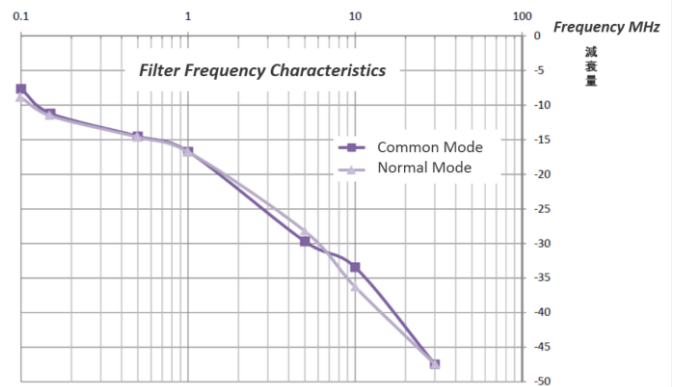
The AC-1501 (R) EMI Filtering IEC Input

The parallel circuit with in-line coil and capacitor reduces noise at 100 KHz by 8dB and at 500 KHz by 14dB and at 10MHz by more than 30dB





L: 2*0.3mH – Cx: 0.1uF – Cy: 3300pF



- Rhodium plated α (Alpha) nonmagnetic copper alloy conductors
- Outer cover • Ni-plated steel-plate
- Inner Box and cover • PBT (Poly Butylene Terephthalate)
- Rating: AC 125V 15A / AC 250V 10A 50/60Hz

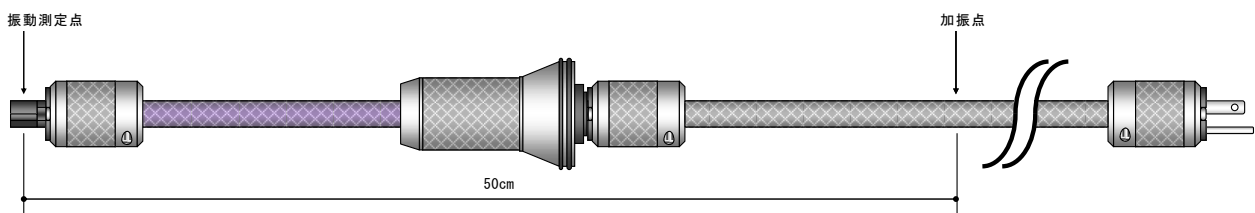
The Flux-50 NCF Filter complies with IEC standards and features the EMI filter AC-1501 R (UL E134751 / CSA Certificate Number: 1224486) and the IEC connector FI-50 NCF (R) (PSE Certificate Number: JET7873-43004-1001 / KEMA-KEUR Certificate Number: 71-127956), both of which meet IEC regulations.

Resonance damping test:

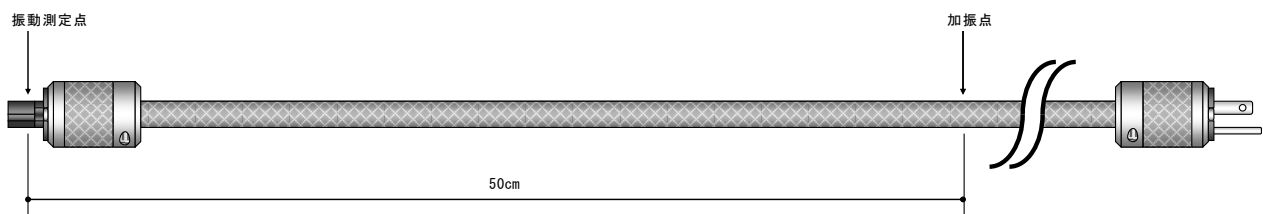
Measurement Method

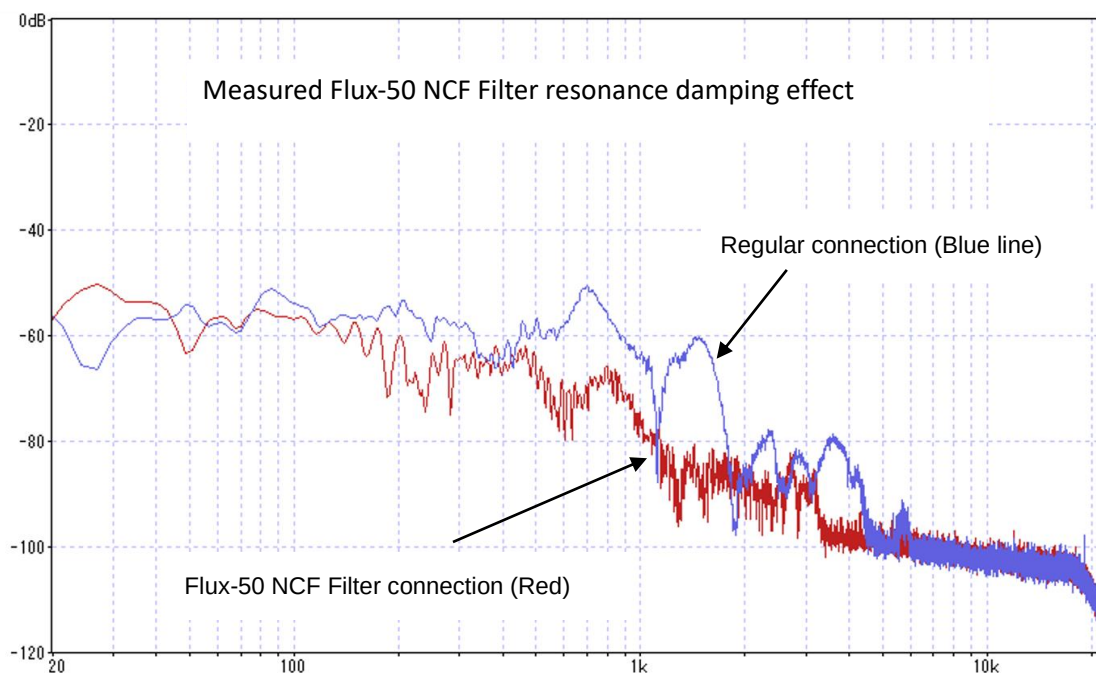
Impact shock applied to test points and results measured with a resonance sensor

Flux-50 NCF Filter fitted cable:



Cable without Flux-50 NCF Filter

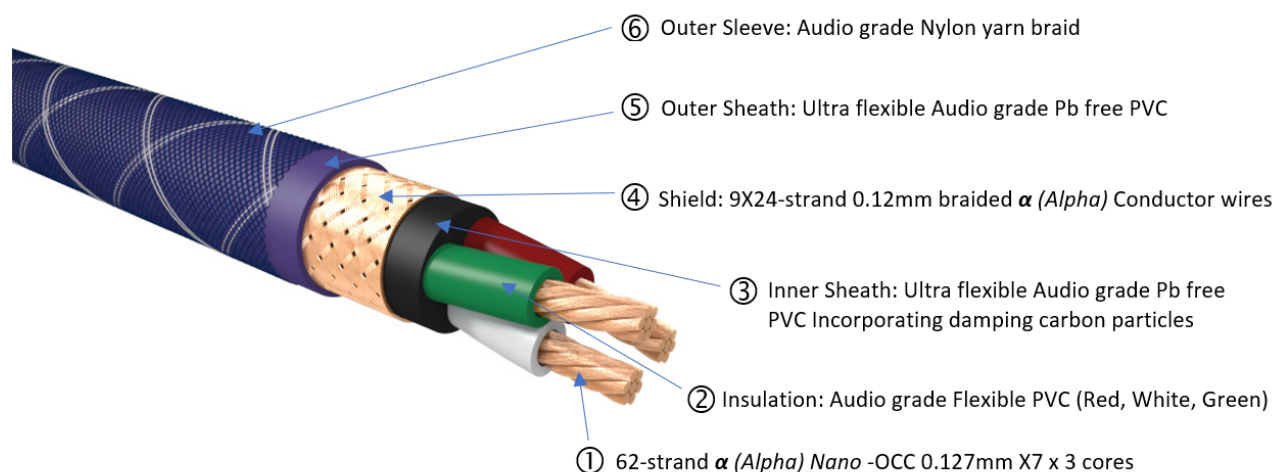




Results clearly show Flux-50 NCF Filter reduces noise, oscillation and resonance in the cable by a factor of 10, resulting in very natural and extremely fine resolution down and through the utterly silent noise floor.

Cable Specifications:

1. 62-strand α (Alpha) OCC conductor • 0.127mm x 7 x 3 cores, 3.8mm diameter
2. Insulation: Special audio grade PE (Red/White/Green) 5.2mm diameter
3. Inner Sheath: RoHS-compliant audio grade flexible PVC incorporating carbon powder
4. Shield: 0.12mm diameter α (Alpha) Conductor wire braid
5. Sheath: RoHS-compliant audio grade flexible PVC (Purple red) 18.0mm diameter
6. Jacket: Nylon yarn braid approx. diameter 18.8mm



Flux-50 NCF Cable Construction

Product name	Product Introduction	JAN Code
Flux-50 NCF Filter	High Performance Audio Power Cable	4580370443127

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

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