

FURUTECH

PURE TRANSMISSION



AEx
オーディオ銘機賞
Audio Excellence Award 2008

CES Best of Innovations Award 2009

FI-50 Piezo Ceramic Series Power Connectors

Available on new Powerflux AC Cord

Tokyo • November 11th, 2008 • Furutech Co., Ltd., manufacturer of analog and digital audio and video cable and accessories, is recognized with a Best of Innovations 2009 Award for what may be the most sophisticated and thoroughly engineered AC connectors in the world, now standard equipment on the Powerflux AC cord.

Piezo Ceramic FI-50 Series Connectors A Furutech First!

Furutech's Pure Transmission FI-50 Piezo Ceramic series connector bodies and housings feature several breakthrough construction techniques. The beautifully-finished FI-50(R) IEC and FI-50M(R) Piezo Ceramic series male connector housings are nonmagnetic stainless steel with six cross-layers of carbon fiber embedded in a lustrous, highly damping and insulating acetal copolymer.

The internal connector bodies combine two "active" materials in their construction, nano-sized ceramic particles and powdered carbon. Nylon and fiberglass are also added to the mix forming an extremely effective, *mechanically and electrically* nonresonant connector body that may just be the most sophisticated in the world.

The Piezoelectric Effect

Furutech's breakthrough in design and materials revolves around using nano-sized polycrystalline ferroelectric ceramic particles that have electro-generative properties; mechanical pressure creates an electrical charge, thus bridging both electrical and mechanical effects.

The carbon powder mixed into the connector body construction exhibits thermal-conductive characteristics. That is to say carbon powder interacts with the mechanical-to-electrical characteristic of the charged ferro-ceramic particles converting their energy into heat that is conducted away and released from the surface of the connector body!

These carefully balanced interactive elements *mechanically and electrically* damp the connector as they interconvert thermal, mechanical, and electrical energy for what must be the ultimate in stable, interference-free listening. In a very real way what you listen to is the power!

Plug a series of FI-50-equipped power cord like the Powerflux into one of Furutech's resonance-damped carbon fiber and stainless steel outlet covers over top-quality Furutech receptacles and you've gone a long way towards noise-free, lower-distortion sound. Add one or more Furutech's GC-303-equipped power distributors or AC filters to connect all your components together for a powerful, emotive and satisfying musical experience.

The Furutech Floating Field Damper*
Solving the Biggest Problem You Never Realized You Had

Noise and vibration are the primary factors in creating signal transmission distortion, and thus the many theories on dealing with them. Controlling noise and vibration is vital in achieving stable, minimal-loss AC power transfer.

Most audiophiles and video enthusiasts assume plugging a power cord into a wall receptacle is the point at which electrical disturbances or *potentials* are generated; everyone has created a small spark when plugging in a device that should have been switched off. But intense research has shown that there are actually many elements in a connector capable of creating stray electrical potentials, like cable clamps, screws and other magnetic parts.

Current flowing through a cable and its connector creates magnetic (and electrostatic) fields – building and collapsing 60 times per second in 120VAC systems. The magnetic field induces current flow – electrical potential – in small parts like the screws holding the connector halves together, which have to be metal for tight clamping. The current flow in these small parts creates multiple “floating” magnetic fields that interfere with the cable/connector's larger magnetic field, resulting in noise and distortion.

The Furutech Floating Field Damper completely solves the biggest problem you never realized you had by star grounding the parts in which floating magnetic fields are created by current flow. A precisely engineered, sprung metal bridge ties the various parts together and shunts the potential to ground, significantly reducing distortion for ultra clean and stable power transfer.

Furutech recommends using grounded receptacles – preferably from Furutech's own beautifully-engineered line – as the benefits of the Floating Field Damper are further improved with a lower impedance path to ground for even lower noise and distortion.

The Jumper System is available in Furutech NEMA, Power and IEC Connectors.

** We've renamed the patented Earth/Ground Jumper System to better describe the circuit's engineering and effects. US Patent No. 6,669,491*

FI-50 Series Features

- α (Alpha) pure-copper rhodium-plated conductors
- Piezo Ceramic series connector bodies electrically and mechanically damp connection
- Floating Field Damper System eliminates magnetic interference
- Patented pressure plates improve contact area
- Patent pending metal cable clamp improves grip reduces resonance
- Dimensions: Body length 40.0mm x 40.5mm diameter x 76.2mm overall length
- Specified for cable diameters from 6mm to 20mm

Furutech makes a wide variety of high performance 15A and 20A A/V cable and power connectors and parts, as well as distribution/filtering products like the new 120Hz standard xv1.3 HDMI cable, Ag-12 Silver Tonearm Cable, Pure Power 6, e-TP4+4, e-TP609 and e-TP60 Power Distributors, and e-TP80 Power Filters, deMag Disc and Cable Demagnetizer, the deStat, a fan-driven, Balanced Ion Drive device for totally eliminating static from LPs and CDs, DF-2 LP Flattener, lightweight and stylish FRD Room Diffusion Panels, PC-2 Disc Pure Cleaner, and their own very special NANO Liquid Contact Enhancer, plus even more fine cable and OEM products.

Make A More Powerful Connection with Furutech!

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