

HIGH-END AUDIO CABLE DRIVEN BY INNOVATIVE CONDUCTOR DESIGN
BREATHTAKING SOUND THROUGH AIR INSULATION



On their way to perfect insulation, German cable manufacturer in-akustik has realized many innovative designs - for example, the DUO PE insulation or the PETS (PE tube support). Now, another groundbreaking invention has arrived: the Referenz NF-2404. A product that again raises the bar and approximates the ideal of pure air insulation as closely as never before.

For this product, in-akustik has designed a special clip: Inside the cable, many of those clips are arranged to form a special helical support holding two symmetrically arranged conductors freely in the air while maintaining the exact distance to the shield. The structure is highly flexible thanks to two crosspieces that do not only interconnect the clips but also ensure highly accurate spacing. in-akustik refers to this design as the Air Helix.

Just like all loudspeaker and audio cables from the Referenz series, the NF-2404 is entirely made in Germany. The clips are meticulously assembled by hand at the on-site factory and then threaded into the Super Speed waveguide. The resulting Air Helix is then provided with a shield and the PE network jacket and finally fitted with GAP-RCA-II or XLR plugs.

It may seem paradoxical but thanks to this highly innovative air-insulation design, enjoying hi-fi sound becomes a virtually breathtaking experience ...

BACKGROUND

On their way to perfect insulation, German cable manufacturer in-akustik has realized many innovative designs—for example, the DUO PE insulation or the PETS (PE tube support). Now, another groundbreaking invention has arrived: the Referenz NF-2404. A product that again raises the bar and approximates the ideal of pure air insulation as closely as never before.

When it comes to high-end applications, air is still the best insulator currently available as it achieves low capacities and low losses. With NF cables (fitted with RCA or XLR plugs), these factors are critical for creating an exceptional connection.

But consistent design is equally important: The precisely defined distance between the conductors and the shield must be maintained at all times. Flexibility is another key challenge - the cable must allow for conveniently running it behind your hi-fi equipment or rack.

To meet these requirements, in-akustik has designed a special clip. Inside the cable, many of those clips are arranged to form a special helical support holding two symmetrically arranged conductors freely in the air while maintaining the exact distance to the shield. The structure is highly flexible thanks to two crosspieces that do not only interconnect the clips but also ensure highly accurate spacing. in-akustik refers to this design as the Air Helix.

Obviously, the conductors themselves play a key role, too. For the NF-2404, they are made of 32 high-purity copper wires braided around a PE core. A very thin lacquer coating on the wires prevents the formation of eddy currents inside this Super Speed waveguide.

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FACTS

- Air Helix structure
- Extremely low capacities thanks to air dielectric
- Super Speed waveguide
- Low longitudinal inductance resulting from braided lacquered conductors
- PE network jacket preventing micro-vibrations
- Braided shield made of low-oxidation copper
- GAP RCA II or XLR plugs
- Rhodium-coated contacts

CONTACT

Felicitas Siegel
Telefon: +49 (0) 76 34 / 56 10-40
eMail: felicitas@in-akustik.de

COMPANY PROFILE

“No compromise in sound”—in short, this principle has been our driving force since the establishment of in-akustik in 1977. We are part of the Braun group, a strong corporate network. All members of the group are dedicated to the same goals: doing what we do with love and passion, offering products of outstanding quality, and being always one step ahead of the competition. Headquartered in Ballrechten-Dottingen (southwest Germany), in-akustik GmbH & Co. KG is a leading

company in the hi-fi and music industry today. We are not only among the top vendors of hi-fi and video cables but also run our own independent record label. In July 2014, we became the German distributor of Piega, a high-end loudspeaker manufacturer from Switzerland. In addition, in-akustik offers smart-home equipment for use in private as well as public spaces. We will never stop trying to improve even the best cables, the finest loudspeakers, and the most beautiful media. A key factor of our success is that our headquarters are located near Freiburg—a region often referred to as the “German Tuscany”. Our ambitions as a constantly growing business in an international market manifests itself in the numerous urban centers nearby—whether Strasbourg, Zurich, Milan, or Basel. At the same time, our immediate surroundings—the Rhine valley, the Kaiserstuhl, the Black Forest, and the university city of Freiburg—give us the peace and calm required for meticulous work.