

The  
Basics  
of the

*FADEL ART*

Philosophy  
and  
Technology

**High Technology**

**Products**

**For Accurate**

**Music Reproduction**

*fadel Art products*

*fA p*

# Philosophy

## The Basics of the *Fadel Art* Philosophy

*fadel Art* presents really outstanding high technology audio products for accurate music reproduction. The basic concepts are the results of many years of intensive research in the field of optimal and interference-free signal transmission in one of the worldwide leading electronic groups. *fadel Art* has further developed these research work, and by extensive musical studies optimized for the specific demands in high end music reproduction.

The company *fadel Art products* was founded in 1993 by Jean M. Fadel a physicist and mathematician, born in Marokko and living in Paris, France. Before founding his own company Mr. Fadel was responsible for the new products department inside the group Thomson. Already in 1987 Mr. Fadel developed his first cables for high end audio applications, based on the mathematic equitations of the British scientist Heaveside.

Before developing his own cables Mr. Fadel has looked to all the cable designs which in his mind had partly solved the existing problems of transmitting a low frequency signal in a high quality music system. But in his mind the basic error in the up to now cable designs was to use simply an ordinary cable with a view to ulterior corrections, instead of designing an idealised cable with a view to reduce further corrections to a minimum. Taking this into account we had to find a specific structure in order to solve the problems by eliminating first the coaxial topology so as to reduce the power in the insulation by separating the conductors by using air as the best possible insulation material. We also had to drive each signal along exactly the same geometries and to hold the conductors as tight as possible. Our products are also based on the general knowledge, that independently of the quality of the electrical conductor itself, and independently of the structure of the conductors inside a cable, finally a correction concerning the phase and the impedance is absolutely necessary to realize a truly optimal cable for a perfect signal transmission. With these findings *fadel Art* has therefore developed and technically realized a totally new correction method based on the Heaveside conditions. This correction method is identified by the use of a special carbon-iron material and the results are cables which are phase and impedance corrected and which therefore are individually optimized for their specific use.

It is very important to mention that the *fadel Art* research is not the work of a scientist with the goal to get his formula coincided with the actual sound, but as the attempt of a music lover to solve a specific problem by using his scientific knowledge.

The final results of the *fadel Art* philosophy are products which without any doubt are setting new standards in the high end audio market of today. To enable the ambitious music lovers to enjoy the music, reproduced by technical products, in the best possible way is the goal of our continous research and is our basic philosophy for today and for tomorrow.

# Technology

## The Basics of the *Fadel Art* Technology

The *fadel Art* technologies are consequently the results of the basic philosophy of Mr. Fadel. That means all our technologies have the target to fulfil the Heaveside conditions, to guarantee the best possible phase and impedance correction and to realize high end audio products which are optimized for their specific use.

First in most of our cables we are using the Litz wire technology or an equivalent construction in order to avoid the undesired skin effect. Furthermore to eliminate the Eddy current in copper we are selecting a very high purity copper with a long-crystal structure. Our final operation consists in measuring the resulting parameters in a given structure with an impedance analyser from DC to 1 MHz. To achieve the optimum correction we take in consideration the Heaveside conditions in order to realize a distortionless cable.

In the Heaveside formula the only parameters we can modify are the line conductance and the line impedance. Therefore we developed a technique increasing both the inductance and the conductance by weakening the insulation by a specific method. For this we have developed a very special magnetic material consisting of a carbon-iron powder which is defined by pure iron particles with a very precise particle structure of a perfect spherical shape. This material has no magnetic remanence, a very high temperature stability and, in contrary to most magnetic materials, a very high resistivity as well as a very low permeability.

Furthermore *fadel Art* has introduced for the first time the measuring parameter "Alpha" as a specific characteristic for audio cables, which defines the amount of energy which is consumed inside a cable while a signal is passing the cable. Therefore this parameter is specific only to the cable and is not influenced by the connected amplifiers and speakers. Consequently we have also developed a corresponding sophisticated computer software which, based on the measurements of the well known electric parameters, makes it possible to describe the conditions of Heaveside as well as to describe the measuring parameter "Alpha".

In 1998 *fadel Art* has developed a really unique technology for the realization of high end audio cables to which was given the name "Silence Technology". This outstanding technology is based on the carefully made analysis of a specific phenomena which is influencing the acoustic transmission inside a cable and which goes back to the so called "Barkhausen Effect". This effect was up to now only known for magnetic materials, but now for the first time this effect was analysed by Mr. Fadel for non-magnetic materials like copper, which are used as conductors in cables. This technology is the first approach in the audio field to eliminate the noise which is created by the internal movement of the molecules. The products which are based on the "Silence Technology" are without any doubt the most sophisticated products ever developed by our company. The "Reference One" cables and the "GoldLine" speaker connecting system are the first items using this entirely new "Silence Technology".

Fadel Art Products are

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