

RSC Air Cable

The theoretical ideal of conductors suspended in air is impractical for common use. Conductors need to be insulated and cable products need to be constructed or fabricated in some manner. In the design phase, a cable increases in cost as the performance requirement is increased also. Simple extrusions of conductors in insulated jackets are easy enough to produce and are quite cost effective, but the subsequent shielding of an interconnect for example, requires a shield to be uniformly constructed around the cable to maintain consistent conductor to shield capacitance; an important consideration for high frequency linearity and accurate signal transmission. So the once simple extrusion of conductors in insulated jackets now becomes more complex. Until now there has been no simple extruded cable design that meets the following criteria.

- 1) Space the conductors apart uniformly with minimal dielectric material to reduce the cost as well as the coloration caused by dielectric (insulation) materials.
- 2) Separate the conductors from the shield without the addition of further dielectric material construction around conductors (normally required to build up the cable in preparation for shielding).

The Air Series Interconnects represent a real advancement in audio cable design and technology. The new 'isolation air-tube' from TARA Labs is a proprietary extruded air-tube which eliminates the need for the typical dielectric construction in a typical cable. Using hollow channels along the inner wall of the main air-tube, the positive and negative conductors are isolated from each other with absolutely minimal dielectric absorption and coloration of the audio signal. No unnecessary dielectric materials fill the space between the conductors. Additionally, because the extruded main tube can be any appropriate diameter, the shield can be uniformly separated from the conductors just as in a typical cable construction but without requiring further dielectric material build up within the cable. Due to the absence of typical dielectric or insulation construction in the cable, the result is an extremely open and revealing cable product, able to transfer subtle detail and ambient information without distortion or coloration.