

# AR Sound Lunar

## Hi-end RCA-DIN interconnect



### The Lunar delivers remarkable sound quality

#### Main Features:

- A Select aerospace grade cable with silvered copper alloy and extruded PTFE dielectric insulation.
- Triple multi layered braided shielding with 99.5% coverage ensure full protection from RFI & EMI.
- Pseudo balanced configuration- A floating double screen for extremely low noise floor and superb dynamics.
- Anti vibration mechanism- An Anti-Resonant polymer treatment for the DIN plug for controlling vibrations conduction and damping plug resonance's.
- WBT-110 Cu "Nextgen" RCA connector with direct gold plating over pure copper.

#### Technology

Following years of extensive listening tests to top quality cables used in the aerospace industries, The cable used to compose this exceptional interconnect, has been expertly selected in order to achieve the highest possible standards employed by the Lunar interconnect.

The Lunar RCA to DIN interconnect contains four 21 AWG main copper alloy conductors. The main conductor's insulation is made of Teflon™ (PTFE) and fully screened in two layers:

- Two primary silver plated copper braids which protect the internal signal hot and return wires from RFI.
- A secondary 14 AWG Copper shield which is overlapped over the two internal screened cables and split into two separated 14 AWG secondary Copper shields for each channel near the RCA plugs interconnect end (three to four braided screens in total). A special arrangement was done in order to lower the stray capacitance of the complex shielded cable.

This unique shielding structure ensures that the internal wires, carrying the delicate music signal receive total protection from external influences- RFI & EMI. In sonic terms, the benefits are clearly defined against the same arrangement of cable without the secondary heavy braiding.

The multi layer configuration decreases the noise floor and enables the perception of even the most delicate nuances of live music.

**Pseudo balanced configuration:** The screens on the Lunar cable serve as a genuine shield which directs the picked-up noise to a single point, thus avoiding the noise build up over the return path conductor - a usual occurrence in unbalanced Interconnects.

The Lunar employs two balanced cable construction, allowing the use of first main conductors for hot, and the second main conductors for return, while screen serves as a protective shield.

#### Triple RFI & EMI protection:

- Two main conductors used in each internal cable, twisted to further enhance RF rejection of the cable.
- An internal screen withholding RF noises from penetrating the twisted pairs cables.
- A secondary screen withholding RF noises from penetrating the whole cable complex. A 99.5% coverage which ensures full protection from RFI & EMI.

The main pair of twisted conductors in each of the internal cables constructing the Lunar, is made of a special, aerospace grade copper alloy carefully selected after extensive listening tests for its superb sonic qualities and durability. Unlike regular copper wires which tend to deteriorate to some degree after bending, the special alloy maintains its metal structure.

This unique copper alloy has a supreme resistance to oxidation, which ensures the cable's longevity and long term performance quality. In addition, the copper alloy wire comprises a silver content which allows for better bonding to the WBT 4% silver solder used to make this superb interconnect.

The interconnect insulation is made of Teflon™ (PTFE), PTFE is the best insulation material used in the cables industry which has the lowest dielectric absorption.

Using Teflon™ (PTFE) as insulation is a prime consideration in Hi-End interconnects. Teflon maintains an extremely low capacitance and high resistance between the internal leads respectively, which keeps the interaction between channels to a minimum.

The low dielectric absorption of Teflon allows locating the main conductors in the Lunar cable in a very tight configuration - which renders the Lunar a very high bandwidth cable while maintaining a low capacitance. Yet another benefit is that Teflon also bonds very tightly to the metal conductors and prevents the oxidation of the metal over the years. It is only the high cost of Teflon (PTFE) cables which leads manufactures to choose inferior plastics, such as PVC, for insulation.

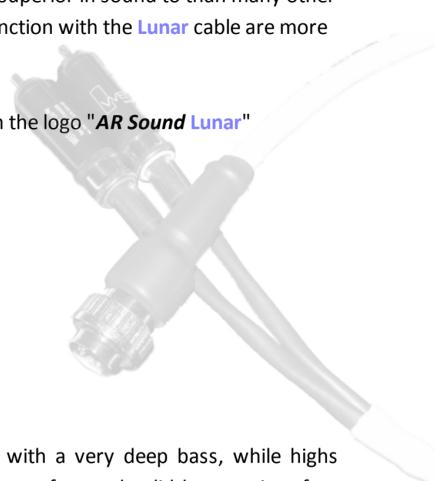
Teflon is also highly durable and can withstand extreme temperatures variations and mechanical pressure conditions without any risk of deterioration.

The PTFE chosen for the Lunar is the extruded rather than the foamed type, since the former is much more robust and maintains the cable structure through cable bending and other mechanical pressures. All this benefits mean that (Baring severe abuse) the Lunar will not suffer any wear or depletion in sound quality or over many years of usage.

The PREH DIN connectors are filled with a special **anti-resonant polymer**, selected carefully after listening tests to many damping polymers. The anti-resonant polymer acts as a barrier to reduce the airborne conduction noise from the cable to the connected equipment. The polymer also helps with dampening the plug's resonances and ringing reduction. Most of the WBT 110 connector is nonmetal (plastic polymers) which helps lowering the ringing of the RCA plugs.

The RCA connectors used are top quality **WBT "Nextgen"™ 110** Copper plugs, with 0.5µm Gold plating over pure Copper contacts and specials dielectric polymers which enable very low self capacitance of 2.4pF and 1G Hz bandwidth. These RCA plug have been found to be highly superior in sound to than many other RCA plugs tested, while the sonic benefits of using the plugs in conjunction with the Lunar cable are more pronounced than with other cables.

The Lunar is directional interconnect: The source side is marked with the logo "AR Sound Lunar"



#### Sound Quality

The Lunar offers a highly open and transparent sound signature with a very deep bass, while highs become extremely natural and crystal clear. It allows for a clean, very fast and solid bass region, free from distortion or time smears.

The multi layer shielding produces an extraordinary dynamic range:

- Exceptionally low noise enables the perception of even the most delicate nuances apparent in live music. In Forte passages the music blooms and opens with a huge dynamic range exhibited by the Interconnect.
- The musical detailing flows effortlessly, in a natural manner, without any emphasis on any part of the frequency audio spectrum. The Lunar exhibits a spectacular sound stage and depth which enables the ear to pinpoint the voices and instruments in the orchestra.
- Superb sounding Mid frequencies - crisp detailed "sweet" vocals enable the listener to hear the correct phrasing and intonation. High frequencies are rendered crystal clear, natural and glare free, while natural brass instruments sounds become devoid of the harsh metallic sound common in many other interconnects.

#### Technical specifications:

**Main conductors:** 75/100 Centimetres of two 21-22 AWG twisted Pairs per each channel.  
(total of 0.84 mm square cut for each channel).

primary conductors: copper-silver alloy stranded wires.  
primary conductors Insulation: 1/16" PTFE.

#### Shielding system:

First Internal shield: silver plated OFC copper- separate shield for each channel.  
Secondary shield: single 14 AWG tinned copper split into two 14 AWG tinned copper (one for each channel at the last 10 cm near the RCA plugs).

Resistance: 49 milliohms/meter (15 milliohms/feet).  
Capacitance: 62 pF/meter (hot to return for each channel).  
External Jacket: Fibreglass Polyurethane impregnated.  
Outside Diameter: ~7 mm

