



Pulse Cable Range At the heart of Music

PULSE-HB | PULSE-R | Redline | D-Fi

PULSE-HB | Absolute Reference Cables Analogue Tonearm & Stereo Interconnect Cables USB 2.0, Ethernet RJ45, COAX -75 Ohm Digital Cables Speaker Cables & Integral Terminal Jumpers (Optional) 7mm, 4mm Banana & Spade Terminations Mains Power Cable

PULSE-R | Reference Cables
Analogue Tonearm & Stereo Interconnect Cables

PULSE-XS Reference | Reference Speaker Cable Speaker Cables & Integral Terminal Jumpers (Optional) 4mm Banana & Spade Terminations

PULSE-XS | High Performance Speaker Cable Speaker Cables & Integral Terminal Jumpers (Optional) 4mm Banana & Spade Terminations

Redline | High Performance Cables Analogue Tonearm & Stereo Interconnect Cables USB 2.0 Digital Cable Speaker Cables & Integral Terminal Jumpers (Optional) 4mm Banana & Spade Terminations Mains Power Cable

D-Fi | Performance Cables
Analogue Tonearm & Stereo Interconnect Cables
USB 2.0 Digital Cable
Headphone & Portable Audio Device Cables



PULSE-HB | Absolute Reference Cables











A Milestone in music replay

In the beginning our Pulse hand-built cable brought a new dimension to high-end audio. It was designed to 'preserve' the analogue signal from source to amplifier with specific attention to electromagnetic wave transmission.

It is important to understand that any wave requires a medium to travel through. This is because it's only the wave that travels and not the medium. Just like sound waves, water waves or even a crowd wave in a stadium, you can observe the wave moving but no one moves around the stadium. Water moves up and down but the wave travels from one end of the pool to the other. We can hear the sound from a loudspeaker but it is not blowing air towards us and so on. However, with no air as a medium, like in a vacuum, there will be no sound heard as there will be no medium for the wave to be transmitted through.

In the case of electromagnetic wave which constitutes AC audio signal, the conductor is the medium. It is also important to realise the physical nature and 'architecture' of any medium will influence its ability to transmit waves of varied amplitude and frequency in different ways. Thus it is critical that a wave of 'infinite' frequencies and amplitudes with substantial 'instantaneous' dynamic range, such as audio signal, is provided with a medium capable of handling such properties.

Any electrically conductive material will provide a path for the audio signal wave to travel and 'appear' at the other end. However, the precision of what appears at the other end relative to the source end will seriously be affected by the 'nature' of that conductor.

To ensure absolute integrity of signal wave transmission, Pulse-HB utilises various bespoke internal conductor designs to provide unsurpassed performance at all levels. Pulse-HB's proprietary conductors are all constructed from scratch using high purity copper with various diameters with each strand silver or tin plated as required. These bare conductors, some of which are a fraction of the thickness of a human hair, are then made into the individual insulated internal conductors. Finally the internal conductors are all combined with a unique configuration and twist, shield wrapped, shield braided and coated with a special outer covering. Pulse-HB Tonearm and Interconnect cables are meticulously hand assembled to the exacting standards of the original masters and put through several QC checks and final listening tests.









Pulse-HB utilises our proprietary 'shield management' switch block to ensure optimum performance with almost any source and amplification system.

Construction

Pulse-HB utilises several internal conductors.

Pulse Microline

Pulse Microline conductor is Teflon coated with bespoke high purity copper strands plated in silver to a pre-defined thickness. New manufacturing methods were incorporated to handle the fragility of this critical conductor. The Microline strands, being a fraction of a human hair in thickness, create a challenge in the construction of the Pulse-HB.

This conductor is only utilised in the Pulse-HB cable.

Pulse Hairline

Pulse Hairline conductor is similar to the Microline, Teflon coated with over 3 times the number of bespoke high purity copper strands, plated in silver to half the thickness. The Hairline strands, also thinner than human hair, are designed with a 'slow' twist requiring special manufacturing techniques that ensure absolute quality and consistency.

_ This conductor is only utilised in the Pulse-HB cable.

Pulse Modeline

Pulse Modeline conductor, Teflon coated with several bespoke high purity copper strands, plated in silver to twice the thickness of the Microline. The Modeline strands, with a 'fast' twist, are designed to assist wideband audio signal transmission through three main conducting layers. As per Microline and Hairline, there are both 'hot' & 'cold' conductors of Modeline to ensure absolute signal quality.

Pulse Earthline

Pulse Earthline conductor, Teflon coated with multi stranded high purity copper strands, is plated in silver to 2/3 of the thickness of the Microline. The Earthline defines exact DC reference for all the alternating signals and in conjunction with the Microline, Hairline and Modeline conductors provides maximum low level detail with remarkable dynamic range.





Pulse-HB Absolute Reference Tonearm and Interconnect cables are the path to the highest performance in audio reproduction. All Pulse-HB cables utilise Vertere proprietary HB Connectors and switchable Shield Management system.

Vertere HB connectors utilise special **copper alloy** contacts precision machined and **23.95** ct hard gold plated to **5 microns**. Every Pulse-HB Cable is fully contact impedance checked against master data, logged and serial numbered. Finally each HB cable is listened to in our reference monitoring system to ensure perfect matched performance against our corresponding reference Pulse-HB cable.

Tonearm Cable

Pulse-HB Tonearm Cable is internally configured to suit the miniature phono cartridge generator. This construction conducts the delicate phono signal as well as accommodating the substantial RIAA equalisation on the LP. This ensures low frequencies, recorded at much attenuated levels, are just as optimally and accurately conducted relative to the much higher level high frequencies.

Stereo Interconnect Cable

Pulse-HB Stereo Interconnect Cable is internally configured and optimised differently to the tonearm cable to provide unrestricted dynamics while preserving the intricate low level detail. Constant noise floor of line level or varying noise floor of pre out are kept so low in the background that result in an unequivocal life like musical experience.

The internal signal conductors work effortlessly with and cater for the most intricate as well as the most dynamic signals that occur in the music - simultaneously.

Pulse-HB ensures real, instantaneous dynamics with total clarity at all volume levels and settings.

This level of detail, accuracy, control and dynamics, elevates the experience of listening to music to a live performance standard. Pulse-HB is truly exceptional and without peer.

Mains Power Cable

Pulse-HB Mains Power cable utilises Vertere proprietary Multi conductor construction for Live and Neutral conductors. Each individually shielded with an overall shield for Live, Neutral and Earth conductors.

Pulse-HB Mains Power cable is available with special gold plated Vertere mains connector terminations for UK, Europe, US to standard IEC or 20A IEC.













Introduction

It is easy to consider a digital signal as 'zeros' and 'ones'. In fact a digital audio signal is just like an analogue signal, comprising of a multitude of frequencies, at a fixed amplitude. The DAC uses the 'rise' & 'fall' of the digital signal for 'triggering' and interpreting it as zeros and ones. So the exact trigger point and its stability will have a profound influence on the overall performance. The digital cable should also minimise disturbances caused by high frequency noise originating from the source, such as a computer, to achieve maximum performance.

USB - Type A | Type B Pulse Hand-built Cable

Based on Pulse-HB Technology, the Hand-built USB utilises a proprietary shielded Data conductor pair and a shield wrapped Power conductor which together are then overall shield braided and outer jacketed to produce this amazing USB cable.

Every Pulse Hand-built USB cable is meticulously tested and listened with against the original master reference cable to ensure the best performance from computer audio.

COAX - 75Ω Digital Cable V2

Pulse-HB Coaxial Digital Cable **V2** defines a new standard, utilising a high purity solid centre core conductor with foil and shield plus a secondary shield braid, for optimum digital signal integrity. The HB Coax cable is terminated with either bespoke designed Vertere Reference Digital RCA (virtually a Coax) or high-speed 75Ω BNC connectors providing the fastest digital signal connection. Any combination of RCA & BNC termination is available on request.

AES/EBU - 110Ω Balanced Digital Cable

Pulse Hand-built AES/EBU cable utilises a double shielded high performance HB digital data conductor pair terminated with Vertere Reference propietary XLR connectors. The secondary shielding and the data pair conductors are configured to ensure optimum matching and performance from CD Transports, D/A Convertors and almost any digital audio source with a high quality AES/EBU output.

Ethernet - RJ45 Cable

Pulse Ethernet cable utilises 4 of Vertere proprietary Data conductors used in the construction of the Hand-built USB cable. The use of such a high quality data conductor ensures best performance from NAS drives, streamers and similar devices.

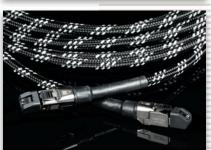
The Ethernet cable is terminated with high quality RJ45 connectors with our unique internal shielding configuration.





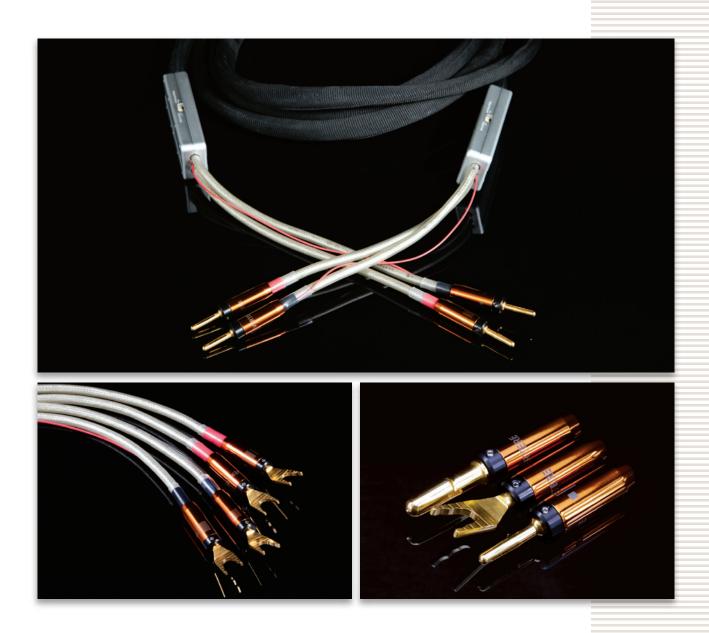








PULSE-HB | Absolute Reference Speaker Cable



Innovation and Construction

Pulse-HB speaker cable follows the same unique design doctrines and manufacturing precision that is applied to the HB range of interconnect cables.

The internal conductors however, are configured to operate at much higher voltages and currents but with the same precision.

Innovative conductor design and signal shielding plus unique mechanically and electrically isolated construction of the Pulse-HB speaker cable provides absolute reference connection between the amplifier and loudspeaker.

Designed with both amplifier output and loudspeaker input requirements in mind, Pulse-HB loudspeaker cable ensures that even the most demanding loudspeakers are in full control of the partnering amplifier. At all times, even during the most complex and yet delicate music passages, almost live performance levels of dynamics, detail and clarity with unparalleled pace and space are unleashed.

The sheer joy and insight into the music when using the Pulse-HB loudspeaker cable is truly extraordinary.

Every Pulse-HB Speaker Cable is fully contact impedance checked against master data, logged and serial numbered. Finally every pair is listened to in our reference monitoring system to ensure perfect matched performance against our reference Pulse-HB speaker cable.

HB Proprietary Reference Connectors

Vertere HB connectors utilise special copper alloy contacts precision machined and 23.95 ct hard gold plated to 5 microns.

Available in 4mm Banana, Spade and special 7mm Banana.

Integral Terminal Jumper (ITJ)

Where the speaker has more than one pair of input terminals, ITJs would allow terminal connections without the necessity of using compromised binding post links.

Pulse-HB speaker cable ITJ terminations are available in either 4mm banana or spade Vertere HB reference connector.

Any number of ITJs can be incorporated.













Single Ended & Bridged Balanced

Bespoke and special internal conductor design of Pulse-HB speaker cable allows it to be configured to maximise performance of the loudspeakers with both single ended and bridged balanced power output design amplifiers.

At a flick of a switch, this most innovative and unique feature of Pulse-HB speaker cable, optimises the connection to loudspeakers and ensures unparalleled performance whatever the amplifier type.

At this point it is important to clarify the difference between an amplifier with single ended and one with bridged balanced speaker outputs.

An amplifier with its **Black** (-) speaker terminal connected to signal ground is technically known as a Single Ended power output. In single ended configuration, the black terminal is fixed at DC zero - ground. No audio signal should be present on this terminal and it should only act as the ground reference for the wideband audio AC signal that is on the **Red** (+) terminal.

It is also important to appreciate that the (+) and (-) markings on these terminals DO NOT refer to positive or negative DC voltages. In fact any DC voltage present at the speaker output terminal would only be damaging to the loudspeaker.

These colours and markings on the terminals are merely to tell them apart and assist in correct connection of the speaker cables and avoid phase reversal.

A bridged balanced amplifier on the other hand is essentially two power amps combined into one to make a single channel. In this configuration the 'Black' terminals of the two power amps are joined together and are unused - also known as 'floating ground'. With one of the amps running 180° out of phase to the other, both remaining terminals then carry audio AC signal where the total amplitude is now twice the original - hence twice the power. Here one of the two 'Red' terminals is marked as 'Black' but it is NOT at DC zero - ground.

Standard Terminal Jumpers

Where the speaker has more than one pair of input terminals, STJs allow uncompromised terminal connection by replacing the supplied binding post links. STJs can be terminated with any combination of 4mm Banana and/or Spade connectors.

Also any number or combination of 'jumps' - See picture.













PULSE-R | Reference Analogue Interconnect & Speaker Cables







The Pulse-R is the closest in design and performance to the bench mark Pulse-HB. Utilising conductors and construction principles contiguous with the HB version provides a path to the highest performance in audio reproduction. The Pulse-R benefits from a version of the HB Hairline conductor and a secondary shielding that is required to achieve a level of performance only expected from our reference cables.

Tonearm Cable

Pulse-R Tonearm Cable is also internally configured to suit the miniature cartridge generator. This construction conducts the delicate phono signal as well as accommodating the substantial RIAA equalisation on the LP. The low frequencies, recorded at much attenuated levels, are conducted just as effectively as the higher level high frequencies.

Stereo Analogue Interconnect Cable

Pulse-R Interconnect utilises all of its internal signal conductors to work effortlessly with and cater for any source or preamplifier output signal. Differently configured to the tonearm cable, Pulse-R interconnect preserves complex low level detail and dynamics of the source or preamplifier with superb clarity at all volume levels. With exceptional handling of wide band harmonic structure, the music and the performance take a new dimension. This level of control and dynamics, elevates the standard of listening to music at home close to experiencing a live performance.

Vertere Reference Connectors

Pulse-R utilises Vertere proprietary reference connectors to achieve the best sound and musical performance possible from this amazing audio signal interconnect cable.

All reference connectors utilise special **copper alloy** contacts precision machined and **23.95** ct hard gold plated to **5** microns.















PULSE-XS | Reference & Super Performance Speaker Cables







Construction

The new Pulse-XS incorporates some of the design principles applied to our unique Pulse-HB Speaker Cable. Designed with both amplifier output and loudspeaker input requirements in mind, Pulse-XS ensures the amplifier remains in full control of the loudspeaker at all times.

With Pulse-XS, during delicate as well as complex passages, full dynamics of the music unleash the 'life' within the performance. The insight into the music and life-like performance make the experience truly remarkable.

Pulse-XS Reference

Pulse-XS Reference version utilises our unique switchable shield-management block which is used to further enhance the performance. There are three settings with positions 1 & 3 for 'Soft' & 'Hard' shield connection respectively and with position 2 for shield connection off.

Pulse-XS Reference is terminated, in any combination, with proprietary Vertere Reference 4mm Banana or Spade connectors.

All Vertere reference connectors utilise special copper alloy contacts precision machined and 23.95ct hard gold plated to over 5 microns.

Single Ended and Bridged Balanced

Power amplifier outputs generally operate either in 'Single Ended' mode or in 'Bridged Balanced'. Conventionally, Single Ended outputs 'Black' terminals are signal ground reference or DC Zero with 'Red' terminals carrying the full audio AC signal.

Bridged outputs, on the other hand, are effectively two power outputs where their 'Black' terminals are joined together and unused (Floating ground) and their original 'Red' terminals now utilised as the new Red & Black output terminals. In this mode, one of the amps input signal is 180° out of phase to the other amp resulting in an overall output twice that of the original single amp output - thus twice the power when bridging amplifiers.

Pulse-XS in balanced mode therefore has its two signal conductors identically terminated.

For use with power amplifiers where the output is not bridged, the 'Black' (Or -ve) conductor can be terminated differently in order to provide a better ground reference – this can marginally enhance the performance.

When terminated as such, the Pulse-XS ID cover would be marked 'Single Ended'.













Pulse-XS

Similar to the Reference version, Pulse-XS utilises the same unique multi-conductor and fully shielded Pulse-XS Cable and provides highest performance second only to the Pulse-XS Reference.

Terminations

All Pulse-XS speaker cables are terminated utilising Vertere Special high performance 4mm Banana or Spade connectors. These bespoke connectors are especially gold plated to 3 times the standard gold plating thickness and ensure super quality contact with ultra-low impedance to keep the amplifier in full control of the loudspeakers at all time.

Integral & Standard Terminal Jumper (ITJ & STJ)

Where the speaker has more than one pair of input terminals, ITJs and STJs facilitate terminal connections without the necessity of using compromised binding post links. ITJs are incorporated into the speaker cable - simply as extensions.

STJs on the other hand are stand-alone, as seen in the picture, and simply replace the existing binding post links.

Both ITJs and STJs can be terminated with any combination of 4mm Banana and/or Spade connectors.

Also any number of 'jumps' can be accommodated.













Redline | High Performance Cables





Introduction

Redline is derived from Pulse-R Cable Technology and follows the same design principles preserving the essence of the audio signal.

Redline interconnect cable, as with all Pulse cables, is inherently a 'balanced' design and is double shielded utilising an outer Tin plated Copper braid and an inner fully wrapped conductive tape.

There are 7 independent conductors per channel facilitating different configurations to ensure optimum musical performance, clarity and life-like dynamics for both analogue and USB digital interconnect cables.

All Redline cable connectors are bespoke and the contacts are specially gold plated to 3 times standard gold plating thickness.

Connectors available are:

RCA phono, XLR balanced, Tonearm 5-pin DIN and USB Type-A and Type-B.

Also special DIN connectors including 4-pin, 5-pin DIN (180) and 5-pin DIN (240) are utilised for Redline DIN signal cables.

Tonearm Cable

Redline external Tonearm Cable, as with the Pulse-R, allows the miniture cartridge generator to drive the phono input comfortably. The internal conductor configuration of the Redline tonearm cable is optimised for conducting the delicate phono signal with its substantial RIAA equalisation. This provides the low frequencies, recorded at attenuated levels, and the much higher level high frequencies with an equal 'drive'. Thus elevating the performance achieved with the Redline tonearm cable as close as possible to the formidable Pulse-R.

Stereo Analogue Interconnect Cable

Redline stereo Interconnect is internally configured different to the tonearm cable to suit the 'constant' line level audio signal.

Dynamic, complex and wideband audio signal is thus conducted from source to amplifier with clarity and superb low level detail. The Redline stereo interconnect will enhance any source to perform with uncompromising musical experience.

















USB - Type A | Type B Digital Cable

Redline USB Digital Cable borrows from the absolute reference Pulse-HB USB cable to provide an outstanding performance from computer and digital audio sources.

Internal configuration of the conductors provide the digital data and the 5V power with extreme immunity from any unwanted interference to ensure optimum performance from the DAC.

Redline USB Digital Cable will enhance the performance of almost any DAC elevating the enjoyment of listening to computer and digital audio music.

Mains Power Cable

Redline mains power cable is derived from the absolute reference Pulse-HB power cable and is fully shielded with an outer Tin plated Copper braid with both Live and Neutral conductors each individually double shielded.

There are 9 independent conductors of three different sizes in each of the Live and Neutral wires. These are Teflon insulated and double shielded with an outer Tin plated Copper braid and an inner fully wrapped conductive tape to provide unparalleled clean AC mains power.

The internal configuration combined with the meticulous shielding ensures low impedance and clean from unwanted interference AC mains power is available to ensure each and every audio equipment can perform to its best with optimum musical performance, clarity, darkest background and life-like dynamics.

Redline Mains Power cable is available Vertere mains connector terminations for UK, EU, Swiss, AUS, US to standard IEC.

All the contacts are especially gold plated to 3 times standard gold plating thickness.







Redline | High Performance Speaker Cable





Construction

Redline Speaker Cable is based on our Pulse-XS reference speaker cable utilising multiple conductors to provide enhanced signal transmission. Both signal conductor sets are identical and fully shielded in Tin plated Copper braid.

Each signal conductor set utilises 10 multi-stranded, high purity copper, silver plated and Teflon coated wires with a specific twist that make up its core.

Termination

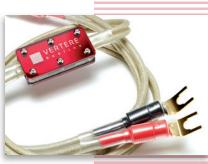
Redline Speaker Cable can be terminated in 4mm Banana or Spade connectors. As with all Vertere bespoke connectors, these are especially gold plated to 3 times standard gold plating thickness.

Integral & Standard Terminal Jumper (ITJ & STJ)

Where the speaker has more than one input terminal, ITJs and STJs facilitate terminal connections without the necessity of using compromised binding post links.

ITJs are incorporated into the speaker cable and simply double up to the next terminal. There can be as many ITJs as there are terminals and terminations can be 4mm or Spade - any combination.

STJs are individual and have connectors on both ends. Wherever possible it is recommended to incorporate ITJs rather than STJs. There are fewer connectors used in ITJs ensuring optimum contact integrity with each terminal.















Performance Interconnect Cables



Stop Listening | Start Hearing

Inspired and made by





Realise the Potential

Today, more people listen to more music than ever before... And they want it on demand – anytime, anywhere.

Their needs are met by portable and multimedia devices such as iPods, tablets, notebooks and mobile phones. But although the available technology brilliantly provides ever-improving user interface, it still fails to offer the sound quality to match.

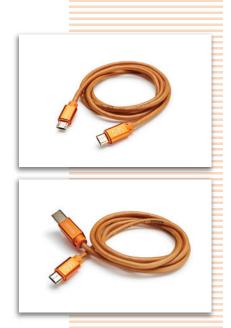
Vertere knows, this needn't be the case.

The New Generation Pulse D-Fi cable has been uprated to enhance and unearth an audiophile performance from mass market digital devices.

Working seamlessly across all platforms and beyond to hi-end audio products, the New generation D-Fi cabled breaks down barriers and makes pure high performance audio quality available to all.

Lose Yourself in Music

	Cable Type	Connector	Length
	Computer Audio	USB 2.0 (A, B, C & Micro)	1.00m - 3.00m
0	iPod & MP3	3.5mm Jack / RCA Phono (L&R)	1.00m - 6.00m
	Headphone	2.5mm / 3.5mm Jack (L&R)	1.00m - 6.00m
· · ·	AV & Hi-Fi	RCA Phono / XLR Balanced (L&R)	1.00m - 6.00m
	Record Player	RCA Phono / XLR Balanced (L&R)	1,00m - 3,00m





D-Fi Product Range

USB 2.0 Digital Cable

NEW Version 4

Get the best performance from your notebook or any digital source with a USB output. Link the source to a DAC or an amplifier with a USB input and enjoy what D-Fi brings to your music.

D-Fi USB 2.0 Cable: **Types A, B, C & Micro** connectors

Detachable headphone Cable

Headphones have never sounded better! If your headphones have a detachable cable then D-Fi will get the best out of your headphones as well as the device they are connected to – iPod, tablet, notebook or even mobile phone.

D-Fi Headphone Cable: 2.5mm, 3.5mm, 6.35mm Jack, Mini XLR & several other speciality connectors

Headphone to Stereo Cable

Want to link your iPod, tablet or notebook to your hi-fi system? D-Fi enables hi-end performance from your mobile music devices. No need for compromised docks and connectors – only quality performance at your fingertips.

D-Fi Headphone to Stereo Cable: **3.5mm Jack to RCA** (L&R) **phono** connectors

Stereo Analogue Interconnect & Tonearm Cable

Connect your Blu-ray, DVD or CD player to your hi-fi system with D-Fi and enjoy superior soundtracks from your movies and hi-end quality music.

D-Fi Stereo Analogue Interconnect Cable: RCA to RCA (L&R) Phono, XLR to XLR (L&R) Balanced & 5-Pin Tonearm connectors

All bespoke D-Fi connectors have their contacts especially gold plated to 3 times standard thickness.

















RECORD PLAYING SYSTEMS

RG-1 Reference Groove Record Player

SG-1 Super Groove Record Player

MG-1 Magic Groove Record Player

DG-1 Dynamic Groove Record Player

MOTOR DRIVES

RG-1 Reference Motor Drive

SG-1 MkIII Super Groove Motor Drive

TONEARMS

Vertere Reference Tonearm New Gen.

SG-1 MkII Tonearm PULSE-HB Internal Wiring

SG-1 MkII Tonearm Standard PULSE Internal Wiring

PHONO CARTRIDGES

Mystic Moving Coil Cartridge

Magnet Cartridge

PHONO PREAMPLIFIER

PHONO-1 MkII

ANALOGUE INTERCONNECT CABLES

PULSE-HB

PULSE-R

PULSE-Redline

D-Fi

RCA, XLR Balanced, DIN & 5-Pin Tonearm

SPEAKER CABLES

PULSE-HB

PULSE-XS Reference

PULSE-XS

PULSE-XminiS

7mm, 4mm Banana & Spade - Single Ended Or Bridged Balanced

DIGITAL INTERCONNECT CABLES

PULSE-HB

PULSE-R

D-Fi

USB TypeA, TypeB, Mini, Micro, Ethernet RJ45 COAX-75 Ohm RCA & BNC, AES/EBU Balanced XLR

MAINS POWER CABLES & DISTRIBUTION

PULSE-HB & HB MAINS DISTRIBUTION BLOCK

PULSE-Redline

UK, EU, US: IEC & IEC 20A

RECORD PLAYER SLIPPOR

STAGE-1 REFERENCE ISOLATION PLATFORM

FOLIPMENT SUPPORT

STAND-1 REFERENCE EQUIPMENT SUPPORT















