



*Second Generation
High Performance Audio Cables*

NØRDOST

MAKING THE CONNECTION

“Other high-end cable makers also have a hierarchical system but few exhibit such consistency of performance across mains, interconnects and speaker cables such that each complements the others and adds to the strengths, with such a coherent sonic signature.”

*Steve Dickinson,
Hi-Fi+ Magazine*



Superior Technology – Superior Performance



It started with Nordost's revolutionary SPM – flat audio cables that set new standards for speed and transparency. Then the legendary Valhalla introduced Micro Mono-Filament construction, a breakthrough that raised the performance bar so high that it totally redefined the contribution of cables to audio system performance, overnight becoming the standard against which all other cables were measured – and found wanting.

This revolution in performance depended on proprietary technologies developed and entirely manufactured in the USA specifically for high-performance cable applications. That made them costly to produce and expensive to enjoy. The next step was to bring those technologies and their performance benefits to a range of real world products developed to release the performance potential that exists in real world systems – systems owned by real world listeners. That was the Norse Series, a range of cables that completely rewrote the book when it came to audiophile's expectations of both the cables and the equipment they owned.

But now we've gone a whole lot further – with Norse Series 2; all the benefits of the originals plus a whole lot more besides.

Refinements to the dimensions, number, spacing and arrangement of the conductors have created a range of cables in which the mechanical characteristics fully match the already superior electrical performance. Norse Series 2 finally allows you to incorporate genuinely state of the art AC and signal transmission technology into any audio system. Combining high-

technology, precision conductors and construction with the best, low-mass and mechanically optimized terminations has created the coherent cable system your electronics and speakers have been crying out for. Put them into your set up and let them unlock its performance – performance you didn't know your system was capable of! Use them with today's high-quality integrated CD players and amplifiers – or HD sources, high-performance processors and multi-channel amps – and you'll be astonished by the musical performances that result.



Norse Series 2 – delivering the performance you didn't realize you already owned...



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Made in the USA

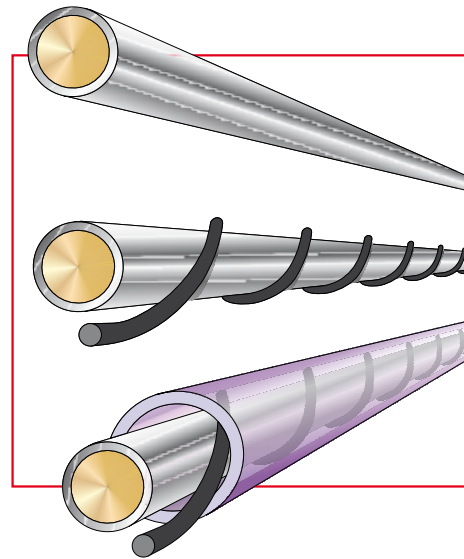
There's no dielectric like no dielectric...

The proven benefits of Micro Mono-Filament Technology

There are still people who believe that audio cable performance is some sort of black art. Nothing could be further from the truth. The key aspects of any cable's sonic performance are dictated by: conductor materials, physical arrangement, insulation materials, geometrical consistency and mechanical damping. No one factor is dominant – they all matter. The problem facing conventional cables (and especially shielded interconnect designs) is that most of them also conflict.

Until now: by winding a single, FEP filament in a precise spiral around each conductor, before extruding an outer FEP “sleeve” over the top, Nordost have created a structure that combines the best available dielectric material, but spaced the insulation away from the core, minimizing contact and dielectric absorption – dubbed Micro Mono-Filament construction. As well as creating a virtual air environment, the spiral filament also delivers excellent mechanical damping and ensures superb geometrical precision.

Like all the best ideas, it's so simple it seems obvious. It's turning it into a product that's the difficult thing. The Norse interconnects might look like conventional tubular designs,

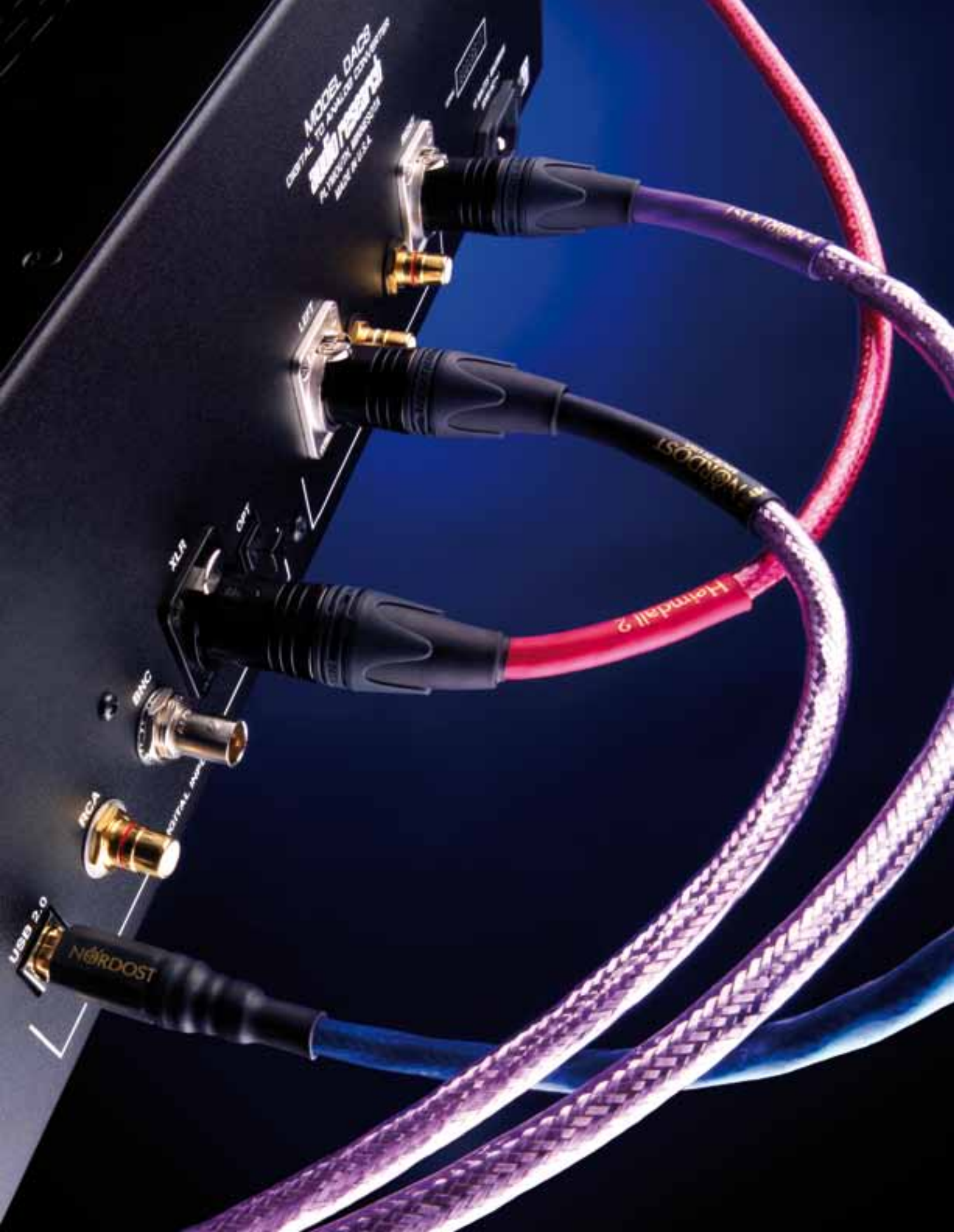


but internally they are constructed from multiple, identical MMF conductors, precision wound within a tightly wrapped shield. Cross sectional accuracy is guaranteed by the Micro Mono-Filaments, the close tolerances with which they are combined and the mechanical stability provided by the shield and FEP outer. Along the way, they also eliminate the unnecessary and sonically damaging fillers that (quite literally) pad the sound and appearance of conventional cables. Having refined that process, we can now apply it to the production of a whole product range that share exactly the same materials, construction and performance benefits that made Valhalla the best cable you could buy. It's just that Norse Series 2 is a lot easier on your wallet!



Making state of the art
technology and performance
an everyday event...







Power that doesn't corrupt... It all starts here.



Which is the single most important cable in a hi-fi system? The one coming out of the wall!

Cables like Nordost's Valhalla and supreme reference, the Odin, have thrown open a new window on system performance, revealing the critical part played in musical reproduction by superior power cords. Why? Because the AC supply is, quite literally, delivering the raw material from which your system will recreate the recorded musical performance. And just like a sculpture, the texture and quality of that raw material has a profound effect on the finished article.

Power cords

HEIMDALL

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: 3x 16 AWG Micro Mono-Filament

Conductors: 60 Micron Silver-plated

99.99999% OFC solid core

Capacitance: 10pF/ft

DC Resistance: 4.0 Ohms per 1000ft/304M

Power Rating: 15 Amp*

Propagation Delay: 85% Speed of light

Termination: US (NEMA), EU (Schuko),

UK (13 Amp) or AUS to IEC (15 or 20A) or Figure 8

FREY

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: 5x 16 AWG Precision Micro Mono-Filament

Conductors: 60 Micron Silver-Plated 99.99999

OFC solid core

Capacitance: 8.8pF/ft

DC Resistance: 2.0 Ohms per 1000ft/304M

Power Rating: 20 Amp*

Propagation Delay: 85% Speed of light

Termination: US (NEMA), EU (Schuko),

UK (13 Amp) or AUS to IEC (15 or 20A) or Figure 8

* Cable rating (dependent on termination)



By employing Micro Mono-Filament construction in the Norse series power cords, we ensure an ultra-fast, low-loss and low impedance AC feed for your electronics, delivered without slowing or current limiting, allowing your system to respond to the dynamic demands of the musical signal. By using silver plated, solid-core OFC conductors we maintain complete materials consistency with the Norse interconnects and speaker cables. Combine the Norse Series 2 power cords with a properly designed star-grounded distribution block, like the QRT Q84 or 8, along with a dedicated clean ground for your audio system and you'll be creating the perfect power foundation to maximize system performance.

The benefits can be heard at both ends of the scale, in the sheer impact that comes with real instrumental presence and explosive dynamics, and the colour, texture and intimacy that brings a voice or solo instrument to life. The result is the most musically coherent and involving performance you'll ever have heard from your system and recordings.

Unlocking the power in your system's performance



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Fast Track...

Delivering musical signals on time – and intact

It's not hard to understand why Micro Mono-Filament construction offers superior electrical characteristics and musical performance. But there is more to creating the perfect interconnect than that. Once you have an ultra-fast, low-loss conductor design, the next biggest threat to audio performance is noise – and noise can come from more than one source. RF interference demands effective shielding, which isn't hard to do. What is hard is shielding a cable without dramatically increasing its capacitance and dielectric absorption. Most cables designs fall at this first hurdle, but the beauty of Micro- Mono-Filament construction is that it doesn't just help minimize the impact of the shielded construction, it also carries significant mechanical benefits too.

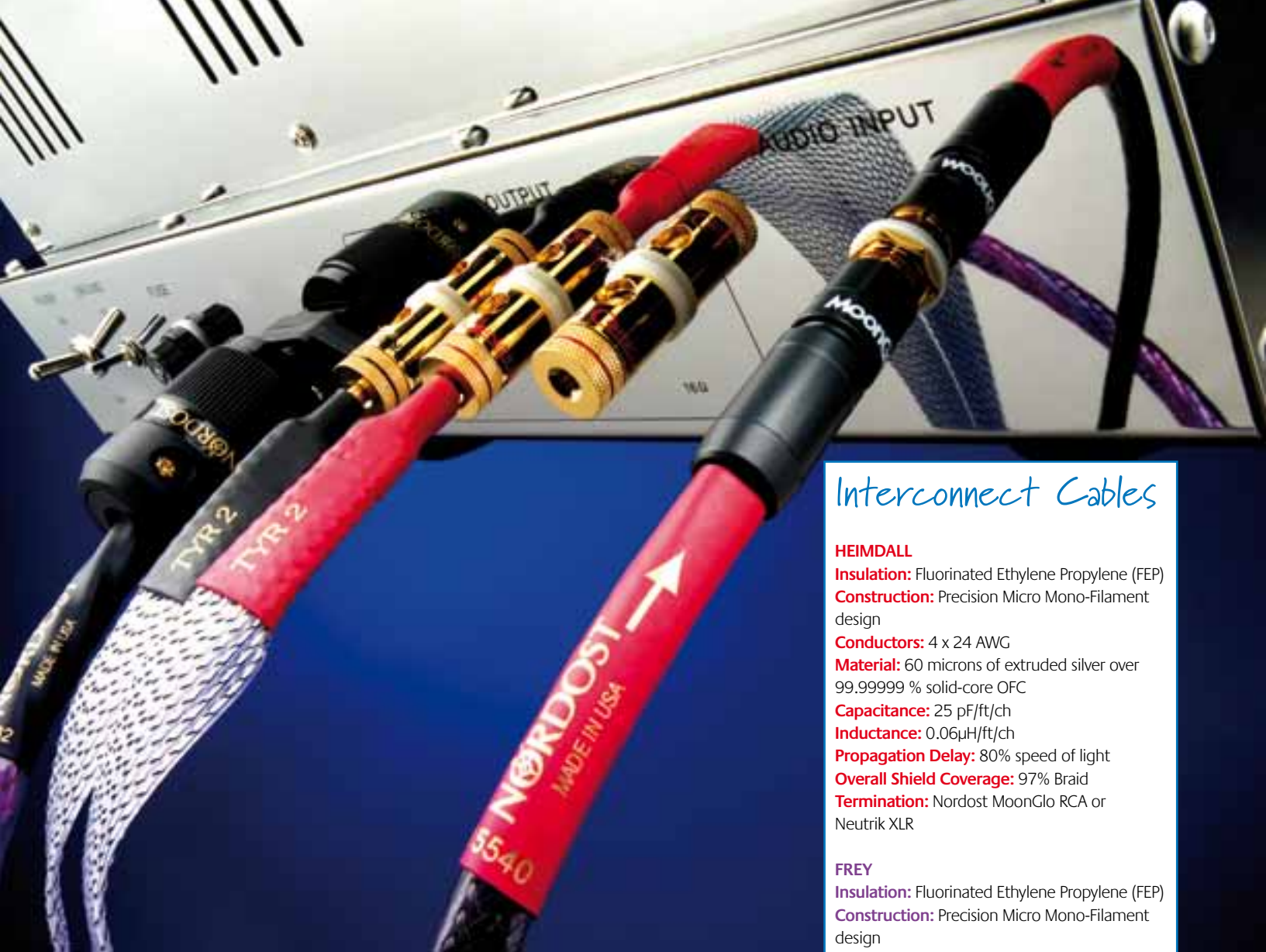
The impact of microphonic effects on the performance of audio cables is massively underestimated. It's one reason why audiophiles lift their cables off of the ground. But the worst source of vibration is the equipment that the cables are connected to. All audio equipment vibrates as it operates, and the metal conductors in your cables conduct that vibration just as enthusiastically as they conduct the signal. The Micro Mono-Filament cradle is an extremely effective dispersion system for this undesirable energy. But we can go further than that. By carefully selecting the dimensions of the conductors and geometry of the cable we can minimize its microphonic susceptibility.

Finally, effective grounding is critical to maintaining signal to noise ratio within the system. Just as a clean AC ground is vital to system performance, solid signal grounds are just as critical. Nordost's revolutionary asymmetrical cable topology is so simple yet so effective that it fits squarely in the "Why didn't we do that before?" category. Once you hear the results, you'll wonder too... Great conductor technology lies at the heart of great cable design – but it's not the whole story. How you use those conductors is just as important.



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Norse Series 2 - the worlds first affordable, fully shielded, mechanically tuned and asymmetrically grounded cable system

Interconnect Cables

HEIMDALL

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Micro Mono-Filament design

Conductors: 4 x 24 AWG

Material: 60 microns of extruded silver over 99.99999 % solid-core OFC

Capacitance: 25 pF/ft/ch

Inductance: 0.06 μ H/ft/ch

Propagation Delay: 80% speed of light

Overall Shield Coverage: 97% Braid

Termination: Nordost MoonGlo RCA or Neutrik XLR

FREY

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Micro Mono-Filament design

Conductors: 5 x 24 AWG

Material: 60 microns of extruded silver over 99.99999% solid-core OFC

Capacitance: 28pF/ft/ch

Inductance: 0.055 μ H/ft/ch

Propagation Delay: 80% speed of light

Overall Shield Coverage: 97% Braid

Termination: Nordost MoonGlo RCA or Neutrik XLR

TYR

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Dual Mono-Filament design

Conductors: 7 x 24 AWG solid core

Material: 60 microns of extruded silver over 99.99999% OFC

Capacitance: 33pF/ft/ch

Inductance: 0.045 μ H/ft/ch

Propagation Delay: 80% speed of light

Overall Shield Coverage: 97% Braid

Termination: Nordost MoonGlo RCA or Neutrik XLR



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Smoothing the way... Or, why flat – and why round?

When it comes to speaker cables, Nordost's flat construction doesn't just look pretty; the parallel, multiple solid-core conductors used for each channel are the only construction that guarantees the combination of low capacitance, resistance and inductance that makes your amplifier's job as easy as possible – and removes the "sound" of your cables as far from the music as possible.



So why doesn't everyone do it this way? They would if they could, but... It's only Nordost's proprietary extruded FEP technology that allows these cables to be produced, creating flat wires that are thinner than a credit card, yet air-tight, geometrically incredibly precise and also tough; tough enough to live laid on the floor, under a carpet or even built into a wall. That's why all the Norse Series speaker wires use our flat cable construction.

Cables that look as good
as they sound – and that's
really saying something!

When so many cable companies dress up anonymous conductors in woven nylon stockings or thick PVC outers, in a forlorn attempt to make them seem "sexy", it's reassuring to know that Nordost cables look distinctly different for a reason. They sound different too; a lot different and a lot better! That might seem like a bold claim until you appreciate the fundamental electrical principals that make it fact.

Loudspeaker Cables

HEIMDALL

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: 18 x 22 AWG Micro Mono-Filament

Conductors: 60 Micron Silver-plated 99.99999% OFC solid core

Capacitance: 9.8pF/ft

Inductance: 0.14uH/ft

Propagation Delay: 95% speed of light

Termination: Spade or banana

FREY

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: 22 x 22 AWG Micro Mono-Filament

Conductors: 60 Micron Silver-plated 99.99999% OFC solid core

Capacitance: 10.3pF/ft

Inductance: 0.135uH/ft

Propagation Delay: 95% speed of light

Termination: Spade or banana

TYR

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: 26 x 22 AWG optimized diameter Micro Mono-Filament

Conductors: 60 Micron Silver-plated 99.99999% OFC solid core

Capacitance: 10.7pF/ft

Inductance: 0.13uH/ft

Propagation Delay: 96% speed of light

Termination: Spade or banana



Problems at source...

Or, why special situations demand specific solutions

Consider this: the analog output from most CD players is somewhere between 2V and 4V; the output of most moving-coil cartridges is in the region of 0.4mV. That is at least 10,000 times smaller! With a signal that tiny and that fragile, the cables it travels down can do untold harm before it even reaches the rest of the system. And to make matters worse, the cable attached to your tonearm is also connected directly to your cartridge, making that cable's electrical characteristics an integral part of the cartridge generator's damping circuit.

That's right – the cable on your tonearm doesn't just impact the signal from your pick-up, it actually affects its mechanical behavior too, making this the most critical signal cable in your system. Which makes it all the more amazing that so many

tonearms are supplied with extremely basic leads. You wouldn't pass the signal from a \$4,000 CD player down a \$25 lead – yet that's exactly what many turntables do, and with a signal that's more fragile to boot.

Both Heimdall and Frey offer electrically optimized, ultra low-loss cables, specifically designed for tonearm applications. They offer a wide range of appropriate termination options as standard, with special requirements available to order, as long as the necessary hardware is available.

Digital signals might be much larger in level than the output of a moving-coil cartridge, but in their own way they are just as fragile. Transmission standards such as S/PDIF and AES/EBU dictate extremely precise impedance characteristics. Any variation from these values can cause

significant signal degradation, yet many supposedly dedicated “digital” cables deviate significantly.

Nordost's dedicated digital designs and precision manufacturing techniques deliver cable tolerances within 0.1% and terminate them with true 75 and 110 Ohm connectors, guaranteeing superior digital signal transfer. They might only be digits, but poor cable design can still mess them up.



Which is why it's so important to start as you mean to go on



HEIMDALL TONEARM CABLE

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Micro Mono-Filament

Conductors: 4 x 24 AWG

Material: 60 microns of extruded silver over 99.99999 % solid-core OFC

Capacitance: 25pF/ft

Inductance: 0.06µH/ft/

Propagation Delay: 80% speed of light

Termination: High quality 5pin Din, MoonGlo RCA or Neutrik XLR connectors

FREY TONEARM CABLE

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Micro Mono-Filament

Conductors: 5 x 24 AWG

Material: 60 microns of extruded silver over 99.99999 % solid-core OFC

Capacitance: 28pF/ft

Inductance: 0.055µH/ft/

Propagation Delay: 80% speed of light

Termination: High quality 5pin Din, MoonGlo RCA or Neutrik XLR connectors

HEIMDALL 75 OHM S/PDIF DIGITAL CABLE

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Micro Mono-Filament co-axial design

Conductors: 1 x 20 AWG

Material: 60 microns of extruded silver over 99.99999 % solid-core OFC

Impedance: 75 ohm

Propagation Delay: 88% speed of light

Termination: Gold-plated true 75 Ohm Neutrik BNC/RCA connectors

HEIMDALL 110 OHM AES/EBU BALANCED DIGITAL CABLE

Insulation: Fluorinated Ethylene Propylene (FEP)

Construction: Precision Micro Mono-Filament

Conductors: 2 x 20 AWG

Material: 60 microns of extruded silver over 99.99999 % solid-core OFC

Impedance: 110 ohm


Propagation Delay: 88% speed of light

Termination: True 110 Ohm Neutrik XLR connectors





TRIANGLE



	Heimdall	Frey	Tyr
Figure 8 Power Cord	●		
15/20A Power Cord	●	●	
Analog Interconnect	●	●	●
Balanced Interconnect	●	●	●
Speaker Cable	●	●	●
75 Ohm Digital	●		
110 Ohm Digital	●		
Tonearm Lead	●	●	
Bi-Wire Jumpers			●



MAKING THE CONNECTION

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