

Precision Interface Technology

Phono Interconnect Cables

INTRODUCTION

Signals from cartridges are highly sensitive to hum, noise and various forms of interference. The connecting cable between the cartridge and pre-amplifier must ensure that the tiny output signal of the cartridge is optimally transferred to the pre-amplifier and at the same time that unwanted disturbances, RFI, etc. are rejected

After most thorough analysis of the specific requirements and the limitations of current phono cable designs, FM ACOUSTICS has developed the world's ultimate phono interconnect cables.

Precision Interface Technology® - or short: "P.I.T."- phono cables are optimized for each individual application and allow pristine transfer of signals from tonearms to unbalanced, pseudo-balanced as well as true balanced phono pre-amplifiers.

The fact that the reproduction of existing systems can be improved massively by just exchanging the phono cables is rather enticing.

With a *Precision Interface Technology*® Phono Interconnect clear improvements are guaranteed. With the offer for a free trial there is no risk whatsoever.

DIFFERENT SYSTEMS REQUIRE DIFFERENT INTERCONNECTION

Precision Interface Technology® phono interconnect cables are unique. Their unmatched neutrality is the result of an in-depth understanding of low-level signal transmission and low level amplification.

Because of the variety of tonearm configurations, connectors and phono pre-amplifiers, different systems require different solutions. In the P.I.T. range application specific phono interconnects are available that will optimize any application. These different cable versions provide the correct solution for each of the various cartridge to phono pre-amplifier interconnections.

FEATURES

Precision Interface Technology® Phono Interconnect cables make exclusive use of FORCESHIELD, a proprietary new triple shielding technology that guarantees zero inductance. The triple bifilar HF shield rejects RF and other interferences. Furthermore it's ultra high flexibility avoids any mechanical strain to the turntable / tonearm combination, a very important aspect especially with subchassis type turntables!

P.I.T. PHONO INTERCONNECTS

- ♪ achieve a signal-to-noise ratio and interference rejection of 132dB (which is 20dB to 50dB better(!) than the other high-quality interconnect cables)
- ♪ guarantee optimal shielding from 0Hz to above 100MHz
- ♪ eliminate interference signals by 100% proper conduction to ground
- ♪ provide unparalleled shield coverage of 99.9% even when cables are bent (a situation where other cables lose effective shielding).
- ♪ feature ultra-accurate balancing (magnitudes better than other so-called "balanced" cables).
- ♪ are totally transparent and guarantee that the characteristics of the cartridge pass uncoloured
- ♪ provide extremely high rejection of magnetically and electrically induced coupling
- ♪ achieve lowest crosstalk
- ♪ guarantee very low residual system noise floor resulting in better dynamic contrast and improved signal to noise ratio
- ♪ allow absolutely phase accurate signal transfer
- ♪ preserve time coherence eliminate time smear and
- ♪ prevent skin effect throughout the audio bandwidth
- ♪ provide a signal-transfer speed 1000 times faster than needed for perfect audio reproduction
- ♪ are carefully optimized with consideration for all variables, including different cartridge types and different types of pre-amplifier input stages
- ♪ employ a perfectly floating shield
- ♪ avoid mechanical strain on tonearm/turtable connectors.
P.I.T. cables have much higher flexibility and allow the tonearm/turtable to float freely without the often experienced mechanical strain on the turtable suspension
- ♪ are available in many dedicated versions with straight or angled 5 Pin DIN tonearm connectors, precision RCA-Phono and XLR connectors
- ♪ carry a lifetime warranty

CABLE TYPES & CONNECTORS

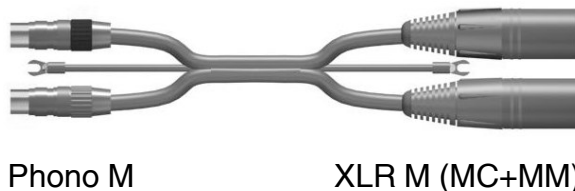
In all P.I.T. cables, precision connectors are used. The RCA/Phono connectors incorporate a unique exponentially enhanced contact area that takes into account the tolerances of the usual RCA/Phono receptables.

Spring loaded, self cleaning contacts assure proper connection. Connecting noises, thumps or impulses that could cause hum and harm the equipment are thus avoided. The precision machined contacts secure the ground before the signal pin makes contact.

Efficient strain relief techniques are used. Manufacturing and soldering techniques of the highest standard are employed. *Precision Interface Technology*® interconnects are painstakingly handcrafted in Switzerland and come with a lifetime warranty.

SELECTING THE CORRECT PHONO CABLE

Type CA 25141 - CA 25143



Phono M

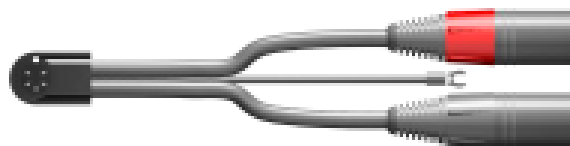
XLR M (MC+MM)

Ultra flexible, true balanced phono cable.

It allows true balanced connection of MM and MC cartridges to the inputs of true balanced phono pre-amplifiers (the FM 222).

It must be realized that all phono cartridges are principally balanced. With the usual Phono-Preamplifier interconnection cables these are, however, transformed into an unbalanced configuration. This cable now allows true balanced connection of cartridges and guarantees absolutely singular performance thanks to the much better CMRR ratio achievable with this cable. The entire system can be operated in true balanced mode (in conjunction with correct cables and electronics that are capable of this: the FM 222 when used with the FM 255, FM 266, FM 268 and all FM ACOUSTICS power amplifiers).

Type CA 25151 - CA 25153



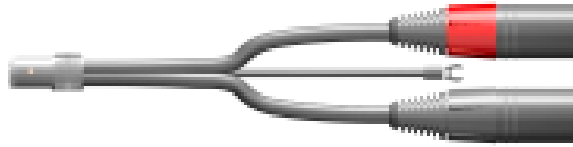
5-Pin DIN angled

XLR M (MC+MM)

Ultra flexible, true balanced phono cables.

For direct connection of tonearms requiring an angled 5-Pin DIN connector to the true balanced input of the FM 222. This cable allows true balanced connection of cartridges and guarantees absolutely singular performance thanks to the much better CMRR ratio achievable with this cable. The entire system can be operated in true balanced mode (in conjunction with electronics that are capable of this: the FM 222 when used with the FM 255, FM 266, FM 268 and all FM ACOUSTICS power amplifiers).

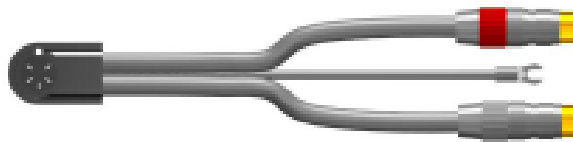
Type CA 25161 - CA 25163



5-Pin DIN straight XLR M (MC+MM)

Ultra flexible true balanced phono cable. For direct connection of tonearms requiring a straight 5-Pin DIN connector to the true balanced input of the FM 222. This cable allows true balanced connection of cartridges and guarantees absolutely singular performance thanks to the much better CMRR ratio achievable with this cable. The entire system can be operated in true balanced mode (in conjunction with electronics that are capable of this: the FM 222 when used with the FM 255, FM 266, FM 268 and all FM ACOUSTICS power amplifier.

Type CA 25171 - CA 25173



5-Pin DIN angled Phono M (MC)

Ultra-flexible phono cables for single-ended/unbalanced interconnection of MC (Moving Coil) cartridges. For direct connection of tonearms requiring an angled 5-Pin DIN connector to inputs using standard Phono/RCA receptable.

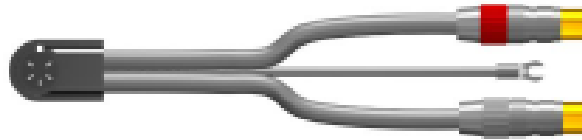
Type CA 25181 - CA 25183



5-Pin DIN straight Phono M (MC)

Ultra flexible phono cables for single-ended/unbalanced inter-connection of MC (Moving Coil) cartridges. For direct connection of tonearms requiring a straight 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

Type CA 25191 - CA 25193



5-Pin DIN angled

Phono M (MM)

Ultra flexible phono cable specially designed for single-ended/unbalanced interconnection of MM (Moving Magnet) cartridges. For direct connection of tonearms requiring an angled 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

Type CA 25201 - CA 25203

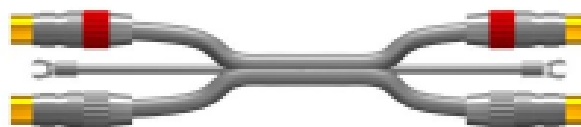


5-Pin DIN

Phono M (MM)

Ultra flexible phono cable specially designed for single-ended/unbalanced interconnection to MM (Moving Magnet) cartridges. For direct connection of tonearms requiring a straight 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

Type CA 25211 - CA 25213

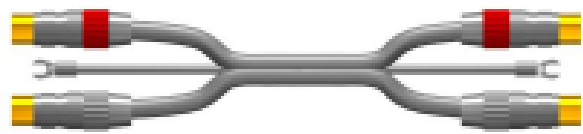


Phono M

Phono M (MC)

Ultra flexible MC (Moving Coil) phono cable for single-ended/unbalanced interconnection between turntables/tonerms having Phono/RCA connectors and pre-amplifiers having standard Phono/RCA receptables.

Type CA 25221 - CA 25223



Phono M

Phono M (MM)

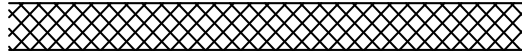
Ultra flexible MM (Moving Magnet) phono cable for single-ended interconnection between turntables/ tonearms having Phono/RCA connectors and pre-amplifiers having standard Phono/RCA receptables.

Standard length code of cables:

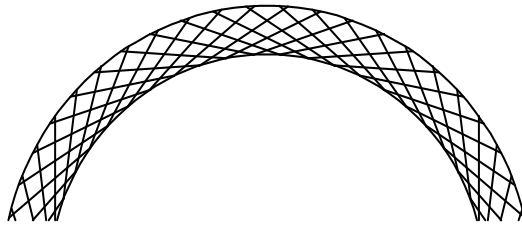
Cable Code		Meters		feet
CA -25..1	=	0.6	~	2
CA -25..2	=	1.2	~	4
CA -25..3	=	3.0	~	10
CA -25..7	=	custom length		

↑ last Digit

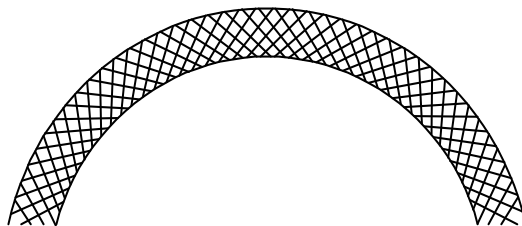
- Other types made to order. Contact FM ACOUSTICS with further details
- Any other length made to order.



Typical cable with braided shield, straight
(equal shielding on both sides)



Cable with typical shield when bent = reduced shielding on outside perimeter



Even when bent, P.I.T. cables guarantee optimal shielding efficiency on inside and outside thanks to proprietary triple-bifilar shielding.

With their unique performance and features P.I.T. phono interconnects guarantee improvement over any other phono cable. As there is no competition it would be easy to command a massive price – even without going to the stratospheric price that other cable manufactures go – just to profit handsomely from this market leadership.

FM ACOUSTICS does not succumb to such tactics and price their products fairly, in line with the costs, royalty including the R&D and development, but not more.

SEVEN DAYS FREE TRIAL

FM ACOUSTICS desires a happy clientele.

To remove any risk for potential users, FM ACOUSTICS - in conjunction with selected distributors - offers a 7-day free trial of any P.I.T. phono or line level cable.

This will allow you to experience the cable's capabilities in your own system without sales pressure. Should you not be 100% convinced just return the cable within the 7-days period in original condition and there will be no costs to you.

If you are interested in this offer please fax, write or e-mail your distributor with details on your cartridge - tonearm - turntable - phono preamplifier and advise the required cable type (see listing on previous pages). Your will be contacted in due time (e-mail requests may take longer).



FM ACOUSTICS LTD.

Gewerbestrasse 16
CH-8132 Egg / Switzerland
Telephone: ..41/44/725 77 77
Facsimile: ..41/44/725 77 90
www.fmacoustics.com

Phono cables

Introduction

Signals from MM (Moving Magnet) and - even more so - from MC (Moving Coil) cartridges are highly sensitive to hum, noise and various forms of interferences.

The connecting cable between the cartridge and preamplifier must ensure that the minute signal of the cartridge is optimally transferred to the preamplifier and at the same time must reject any unwanted signals from entering the signal path. In usual cables this is not taken sufficiently into consideration.



After most thorough analysis of these specific requirements and exacting research the worlds ultimate phono interconnect cables have been designed.

The important link: dedicated versions of phono interconnect cables guarantee optimal performance with any tonarm - cartridge - preamplifier combination.

The various versions of Precision Interface Technology® - or short: P.I.T. - phono cables are optimized for the different characteristics of cables and phono preamplifier input stages. Each individual application can be optimized and pristine signal transfer from tonearms to unbalanced, pseudo-balanced as well as true balanced phono preamplifiers is guaranteed.

The fact that the reproduction of existing systems can be improved massively by just exchanging the phono cables is rather enticing. It does not get much easier than replacing a phono cable...

And with our offer for a free trial there is no risk whatsoever.

With a Precision Interface Technology® Phono Interconnect clear improvements are guaranteed.

Different solutions for different systems

Precision Interface Technology® phono interconnect cables are unique. Their unmatched neutrality is the result of the most comprehensive research and an in-depth understanding of low-level signal transmission.

Because of the variety of tonearm configurations, connectors and phono preamplifiers, different systems require different solutions. In the Precision Interface Technology® range specifically optimized phono interconnects for any application are available. These different cable types provide the correct solution for the various cartridge to phono preamplifier interconnections.

Features

Precision Interface Technology® Phono Interconnect cables make exclusive use of FORCESHIELD, a proprietary triple shielding technology. The unique dual bifilar shield guarantees zero inductance and an additional HF shield rejects RF interferences.

P.I.T. phono interconnects:

- achieve a signal-to-noise ratio and interference rejection of 132dB (which is 20dB to 50dB better(!) than the other high-quality interconnect cables)
- guarantee optimal shielding from 0Hz to above 100Mhz
- eliminate interference signals by 100% proper conduction to ground
- provide unparalleled shield coverage of 99.9% even when cables are bent (a situation where other cables lose effective shielding).
- feature ultra accurate balancing (magnitudes better than other so-called "balanced" cables).
- are totally transparent and allow the characteristics of the cartridge to pass uncoloured
- provide extremely high rejection of magnetically and electrically induced coupling
- achieve lowest crosstalk
- guarantee very low residual system noise floor resulting in better dynamic contrast and improved signal to noise ratio
- allow absolutely phase accurate signal transfer
- eliminate time smear and preserve time coherence
- prevent skin effect throughout the audio bandwidth
- provide a signal-transfer speed 1000 times faster than needed for perfect audio reproduction
- are carefully optimized with consideration for all variables, including different cartridge types and different types of preamplifier input stages
- employ a completely floating shield
- avoid mechanical strain on tonearm/turntable connectors. P.I.T. cables have much better flexibility and allow the tonearm/turntable to float freely without the often experienced negative influence on the turntable suspension
- are available in many dedicated versions with straight or angled 5 Pin DIN tonearm connectors, precision RCA-Phono and XLR connectors
- carry a lifetime warranty

Cable types & connectors

In all P.I.T. cables precision connectors are used. The RCA/Phono connectors incorporate a unique exponentially enhanced contact area that takes into account the tolerances of the usual RCA/Phono receptacles.

Spring loaded, self cleaning contacts assure proper connection to any receptacle.

Connecting noises, thumps or impulses that could cause hum and harm the equipment are avoided. The precision machined contacts secure the ground before the signal pin makes contact.

Efficient strain relief techniques are used. Manufacturing and soldering techniques of

the highest standard are employed.

Precision Interface Technology® interconnects are painstakingly handcrafted in Switzerland and come with a lifetime warranty.

ATTENTION!

NEVER use a line level cable between a cartridge and the phono preamp! From the outside P.I.T. Phono interconnects look similar as the P.I.T. line level cables. However, even if the cable coding should have been removed it is still possible to recognize the difference from the outside: cables for phono interconnection have a central grounding wire that line level cables do not have.

Selecting the correct cable version

CA -25141 - CA -25143



Phono M - XLR M (MC+MM)

Ultra flexible true balanced phono cable.

It allows true balanced connection of MM and MC cartridges to the inputs of true balanced phono preamplifiers (the FM 222).

It must be realized that all phono cartridges are principally balanced. With the usual Phono - Preamplifier interconnection cables these are, however, transformed into an unbalanced configuration. This cable now allows true balanced connection of cartridges and guarantees absolutely singular performance. The entire system can be run in true balanced mode (in conjunction with electronics that are capable of this, the FM 222 when used with the FM 255, FM 266, FM 268 and all FM ACOUSTICS power amplifiers).

CA -25151 - CA -25153



5-Pin DIN angled - XLR M (MC+MM)

Ultra flexible true balanced phono cables.

For direct connection of tonearms requiring an angled 5-Pin DIN connector to the true balanced input of the FM 222. This cable now allows true balanced connection of cartridges and guarantees absolutely singular performance. The entire system can be run in true balanced mode (in conjunction with electronics that are capable of this, the FM 222 when used with the FM 255, FM 266, FM 268 and all FM ACOUSTICS power amplifiers).

CA -25161 - CA -25163




5-Pin DIN straight - XLR M (MC+MM)

Ultra flexible true balanced phono cable.

For direct connection of tonearms requiring a straight 5-Pin DIN connector to the true balanced input of the FM 222. This cable now allows true balanced connection of cartridges and guarantees absolutely singular performance. The entire system can be run in true balanced mode (in conjunction with electronics that are capable of this, the FM

222 when used with the FM 255, FM 266, FM 268 and all FM ACOUSTICS power amplifiers).

CA -25171 - CA -25173

 5-Pin DIN angled - Phono M (MC)


Ultra-flexible phono cables for single-ended/unbalanced interconnection of MC (Moving Coil) cartridges. For direct connection of tonearms requiring an angled 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

CA -25181 - CA -25183

 5-Pin DIN straight - Phono M (MC)

Ultra flexible phono cables for single-ended inter-connection of MC (Moving Coil) cartridges. For direct connection of tonearms requiring a straight 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

CA -25191 - CA -25193

 5-Pin DIN angled - Phono M (MM)

Ultra flexible phono cable specially designed for single-ended interconnection of MM (Moving Magnet) cartridges. For direct connection of tonearms requiring an angled 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

CA -25201 - CA -25203

 5-Pin DIN straight - Phono M (MM)

Ultra flexible phono cable specially designed for single-ended interconnection to MM (Moving Magnet) cartridges. For direct connection of tonearms requiring a straight 5-Pin DIN connector to inputs using standard Phono/RCA receptables.

CA -25211 - CA -25213

 Phono M - Phono M (MC)

Ultra flexible MC (Moving Coil) phono cable for single-ended interconnection between turntables/tonearms having Phono/RCA connectors and preamplifiers having standard Phono/RCA receptables.

CA -25221 - CA -25223

 Phono M - Phono M (MM)

Ultra flexible MM (Moving Magnet) phono cable for single-ended interconnection between turntables/tonearms having Phono/RCA connectors and preamplifiers having standard Phono/RCA receptables.

Other types made to order. Contact FM ACOUSTICS with further details.

Length of Cables / Type No.

Cable Type No.	Meters	~ feet
CA -25..1	0.6	2
CA -25..2	1.2	4
CA -25..3	3	10

The last digit of the Cable Type is the code for the length of the cable.
Any other length made to order.

Precision Interface Technology® provide 99.9% shielding.

Bending an ordinary cable results in lower shielding. P.I.T. cables, however, guarantee optimal shielding efficiency on inside and outside even when bent - thanks to proprietary triple shielding.

ATTENTION:

Non-optimal system installations have been reported due to a rather basic error: as P.I.T. line level cables and P.I.T. phono cables look similar (some versions use identical connectors but each cable is clearly marked) it may appear they are the same and interchangeable.

This is NOT so !

A phono cable has different requirements than a line level cable and for optimal performance must NOT be used as such (and vice versa).
Actually, it is quite easy to differentiate: the P.I.T. phono cables always have an earthing wire between the two cables, the P.I.T. line level cables do not have such an earth wire.

The fake copies of P.I.T. cables that are being offered in certain countries do - who would have thought ? - not make the abovementioned differentiation. One can often spot a fake P.I.T. cable when they lack the identification number, and/or the serial number, both tags around the cables near the connectors.

A further hint: do not accept the cable if it does not come in the original dark blue velvet pouch printed "Precision Interface Technology".

Buying similar looking cheaper cables (some of the connectors we use are generally available but there still is a difference which, however, is not obvious visually) one may end up with non-optimal system interfacing.

Fake P.I.T.'s are not worth the initial "savings".

Remember: You get what you pay for...

Seven days free trial

With their unique performance and features P.I.T. phono interconnects clearly outperform any other phono cable - at any price. Due to this position of market leadership, it would be easy to command a massive price - even without resorting to the stratospheric prices that are not unusual in the audio market – to call for attention and to profit handsomely. FM ACOUSTICS does not succumb to such tactics and price their products fairly in line with the costs including the R&D and development costs, but not more.

In fact, to take any risk away, for our potential clients FM ACOUSTICS - in conjunction with selected distributors - offers a 7-day free trial of any phono and P.I.T. line level cable. If you are not 100% sure that this improves your system just return the cable within the 7-days period in original condition and there will be no costs to you. If you are interested in this offer please indicate this under [contact](#) and mention the components of your system. You will be contacted by the relevant distributor within a few days.