



Siltech Product Overview

At Siltech, we have been at the cutting-edge of audio cable development for almost 40 years. Working with the latest science and technologies, we have evolved groundbreaking conductors, innovative constructions, and sought out the very best dielectric materials, significantly extending the musical performance of high-end audio systems. Our products are renowned and their qualities recognised around the world. For almost four decades, we have been setting the standards in high-end audio.



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Royal Triple Crown

Everybody knows that when it comes to audio systems, you need cables to make them work. What fewer people appreciate is that those cables represent a system within the system. What almost nobody understands is that each cable is itself a system – a complex combination of materials and technologies that often have competing and contradictory goals and need to be precisely applied and perfectly balanced to achieve optimum results. The whole spectrum of music must be transported as entirely as possible to avoid any loss of quality in the music.

Siltech essentially invented high-end cables with the original Siltech line and we are best known for our groundbreaking cable designs. For almost four decades, we have set the performance standards that other cable brands struggle to match. Our unparalleled experience and accumulated knowledge have been applied far beyond the field of audio cables. Siltech products are made with our unique approach using proprietary materials and patented technologies. That is why our cables sound so good and get even better as time goes on.

Why is the quality of a cable so challenging to achieve?

This is because music has a wide range of frequencies. Cables consist of a conductor that carries the music from one point to another and an insulator that makes sure it does not short.

The most known properties of electricity are voltage and current. Voltage can be seen as tension or pressure- a difference in level from one side to the other. Current can be seen as a flow-like water moving in a river.

The conductor can be seen as the river itself. In a wide river, the current flows slowly but steadily and can deliver a lot of water. Just like a river, a cable can carry a lot of current if it is big enough. Loudspeaker cables (and power cables) need to be of sufficient diameter in order not to reduce the current. The quality and purity of the conductor can be compared to the bed of the river. The smoother it is, the smoother the river flows without splashing. Splashing equals distortion in music. That is why we have put so many years of research into our proprietary metallurgies, to be able to produce conductors of the highest quality and purity.

Voltage distortion is mainly of importance for interconnect cables. Here, the voltage is essential because the current is extremely low. That means that any friction from the sides would influence the signal flow.

This relates to the conductor itself and the insulation material. The higher the purity of the conductor, the less resistance it endures and the better the sound quality will be.

The same is valid for the insulator. High-quality insulators are, therefore, essential. This is the reason our engineers have selected high-tech insulation materials that are often used by the military because of their unique properties. These materials are Teflon, Kapton and PEEK (polyether ether ketone). All are used in different combinations to allow for the best sound.

Power cables are often not well understood. If we assume that the power comes from your electric box, it might be on its way for tens of metres before arriving at your wall plug. So, what kind of loss can a few metres do? After studying the behaviour of cables for 35 years, we found many unknown answers. The magnetic fields leaking out of power cords and power lines influence sound quality within the first 2 feet. That means that only the quality of the last few feet affects the sound quality of your system.

Two fundamental properties can separate a power cord. One is the conductor. At higher currents, it can saturate connections and therefore add an audible distortion to the sound of your system. The other important property is the shielding. The shielding should prevent the magnetic field from leaking out of the power cord. Because of its low frequency, the wavelengths of the 50 or 60 cycles is longer than the cable. Our specialised engineers invented a unique technique ensuring total freedom of distortion as well as excellent shielding for power cords. This leads to a much quieter background, which means a more musical system.

Siltech cable construction

Generally speaking, an ideal audio cable should have the following properties:

No (series) resistance, why?

Because any signal travelling from one crystalline unit to another should not be changed. Every bit of resistance means that not all of the signal is being transported to the next unit. Also, due to leaking ground currents, the ground resistance of the wiring plays a major role in degrading the sound quality.

No capacitance, why?

Because capacitance means an extra load for the signal entering the cable. Also, dielectric effects will cause storage of the signal in the insulation.

No inductance, why?

Because inductance means higher series impedance at higher frequencies. This causes uneven distribution of higher and lower frequencies.

Siltech chooses to make cables quite independent of the other gear that the customer will have because we have no say in that. Siltech cables do not filter or cause any active alteration of the signal. They have low impedance and low inductance as well as medium (Classic Anniversary) to ultra-low (Royal Triple Crown) capacitance depending on the model. Siltech cables are very stable and do not change the sound even when long lengths or unequal speaker cable lengths are used. The low capacitance ensures the sound is the very fastest, most precise and refined it can be.

For the lowest distortion and resistance, we use both our proprietary metallurgic formulas (see below) and unique Kapton and/or PEEK and Teflon insulation from Dupont.

Monocrystal oxygen-free copper – Used in Explorer series

The Explorer series is the only series that uses copper as a conductor. Our 6N monocrystal copper is the result of extensive research and testing and boasts superior conductivity. The Explorer series can be regarded as a monocrystal oxygen-free copper version of the higher-level Classic series because the processing technology and structure are completely consistent.

Solid core silver-gold of the 9th generation called “G9” – used in Classic Legend series

Silver outperforms copper in all sonic and electrical aspects as well as being more stable over time. SILVER TECHNOLOGIES has perfected the silver metallurgy over time to ensure the best and most constant performance of audio cables.

Siltech’s proprietary silver-gold alloy (G9 for 9th generation) improves a natural silver wire by adding traces of gold to fill the microcracks that occur during the solidification process of the silver crystal structure. In a continuous process of improvements since 1997, the gold injection process has been perfected with every generation of silver-gold wire.

The 7th generation of Siltech silver-gold alloy was able to reach a purity of 9N by increasing the filling rate of the crystal structure gaps to the highest possible level. This technology lowers the resistance and audible distortion of all cables and, at the same time, makes the wire stronger and more flexible.

This 9th generation of Siltech silver-gold alloy contains all the latest developments and improvements in the melting process, resulting in an even smoother sound and improved cable run-in times. The earlier 7th generation silver-gold alloy is used in Explorer SG and some of the bulk cables we offer on the roll.

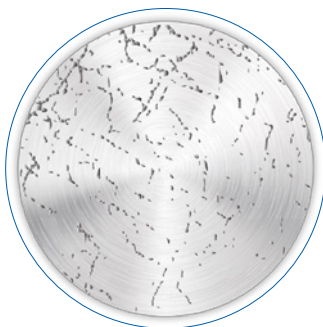
Solid core monocrystal silver of the 10th generation called “S10” – used in Crown series

Our silver-gold alloy was the best possible metal at that time because it filled virtually all the microcracks in the silver structure. The only way to improve this further is to eliminate these microcracks entirely.

“Monocrystal” means one long continuous crystal of the silver metal from one end of the cable to the other. This technology results in the absolute highest purity possible, which ensures the lowest loss of energy (lowest resistance) and lowest micro-distortions because the limitations of the crystal structure are completely removed.

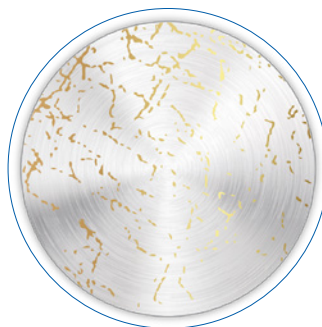
Both Siltech silver-gold and monocrystal silver wires benefit from positive aging, which means that the measured signal and audio quality will continue to improve over time. This also explains the high value of used Siltech and the long life of our lines.

Microscopic view



Regular

Copper or Silver conductor; small gaps appear causing micro-distortions in the signal.



Siltech Silver-Gold wire

Silver conductor injected with pure gold; gaps are eliminated keeping the signal intact and thus providing higher performance.



Siltech S10 Monocrystal silver

One continuous silver crystal, totally eliminates microcracks for lowest resistance and micro-distortions.

Classic Legend Series



Classic Legend 880i

The famous Siltech Classic Series has a history of almost 25 years: ultra-silent cables with exceptional sound quality, using Siltech's proprietary pure silver-gold alloy conductors. After the Classic, Classic MkII, and Classic Anniversary series, a new edition is ready to prosper: The Siltech Classic Legend Series.

The Classic Legend range of interconnects, loudspeaker cables, and power cords delivers exceptional performance for its price. It represents the culmination of over thirty years of research into conductor and insulation materials. Despite its accessible pricing, it has low capacitance, excellent high-frequency characteristics, and the lowest possible distortion. This translates to a superbly resolved sound with a smooth, balanced tonality and exceptional stereo imaging properties.

The new Classic Legend Series pioneers the company's ninth-generation G9 proprietary silver-gold conductor, using the latest in a long line of special alloys. Using technology trickled down from the flagship Crown range, its insulation uses a combination of DuPont Teflon and PEEK for exceptionally low distortion and unlimited dynamics. It comfortably surpasses all previous Classic cables in technical measurements and subjective sound quality, with an uncannily natural, musical performance.

Classic Legend Series	Model	Cores	Monocrystal copper	Pure silver-gold alloy G7	Pure silver-gold alloy G9	Pure S10 monocrystal silver	Twisted pair	Star quad	Twisted coax pair	Hexagon	Siltech special Multicell	Kapton	PEEK	Teflon	Wide-range shielding	Cross section
Interconnects	380i (phono)	2	•						•			•	•	•		
	680i (phono)	2	•						•			•	•	•		
	880i (phono)	2	•						•			•	•	•		
Ground cable	Zero Ohm Link		•					•						•		
Loudspeaker cables	380L	2	•						•			•	•	•		
	680L	2	•						•			•	•	•		
	880L	2	•						•			•	•	•		
Jumper	380L	2	•		•											
	680L	2	•		•											
	880L	2	•		•											
Power cable	380P	2	•						•			•	•	•		
	680P	2	•						•			•	•	•		
	880P	2	•						•			•	•	•		
Digital cables	380D	2	•		•									•	•	
	680D	2	•		•									•	•	
	880D	2	•		•									•	•	
	380 USB	4	•		•									•	•	
	880 USB	4	•		•									•	•	
	380 Network	4	•		•									•	•	
	880 Network	8	•		•									•	•	
			Metallurgy		Construction			Insulators								

Royal Crown Series



Royal Double Crown Interconnect

Crowning Siltech's world of almost 40 years of ongoing research and development, our engineers succeeded in delivering performance approaching that of Siltech's flagship Royal Triple Crown series but at a more accessible price. The successor to the iconic, much-loved, and multiple award-winning Royal Signature Series, the Royal Crown series has a highly translucent sound that's startlingly open, direct, and engaging.

As befitting its 'Cable Royalty' status, the Crown version uses only Siltech's pure S10 monocrystal silver wire as conductors, while the Double Crown and Royal Triple Crown even use only pure silver connectors. All Royal Crown cables use our new Hexagon construction, previously only seen in Siltech's flagship Royal Triple Crown Power cable. It allows for greater symmetry from every angle and more efficient wire handling for the lowest electromagnetic interference. Siltech's dual-layer insulation of DuPont Kapton and Teflon combined with the Hexagon's air insulation and wide-range shielding results in the lowest inductance and capacitance.

This new range consists of three models that offer increasing performance levels, musicality, and appearance: Royal Single Crown, Royal Double Crown, and the flagship Royal Triple Crown. All models have interconnects, speaker cables, and power cords. There is a wide selection of digital interconnects available as well. The Royal Crown cables are certainly bound to deliver noble and unforgettable listening experiences to all passionate music lovers.

Royal Crown Series	Model	Cores	Monocrystal copper	Pure silver-gold alloy G7	Pure silver-gold alloy G9	Pure S10 monocrystal silver	Twisted pair	Star quad	Twisted coax pair	Hexagon	Siltech special Multicell	Kapton	PEEK	Teflon	Air insulation	Wide-range shielding	Cross section	
Interconnects	Royal Single Crown IC	6				•				•	•	•	•	•	•	•		
	Royal Double Crown IC	6				•				•	•	•	•	•	•	•		
	Royal Single Crown phono	4				•	•				•	•						
	Royal Double Crown phono	4				•	•				•	•						
	Royal Triple Crown IC XLR	3				•				•	•	•	•	•	•	•		
	Royal Triple Crown IC RCA	2				•				•	•	•	•	•	•	•		
Ground cable	Royal Crown Zero Ohm Link	3x5				•	•							•				
Loudspeaker cables	Royal Single Crown LS	6				•				•	•	•	•	•	•	•		
	Royal Double Crown LS	6				•				•	•	•	•	•	•	•		
	Royal Triple Crown LS	2				•				•	•	•	•	•	•	•		
Jumper	Royal Single Crown Jumper	2x9				•				•				•				
	Royal Double Crown Jumper	2x12				•				•				•				
Power cable	Royal Single Crown Power	6+1				•				•	•	•	•	•	•	•		
	Royal Double Crown Power	6+1				•				•	•	•	•	•	•	•		
	Royal Triple Crown Power	6				•				•	•	•	•	•	•	•		
Digital cables	Royal Single Crown Digit	2+2				•	•							•	•			
	Royal Double Crown Digit	2+3				•	•							•	•			
	Royal Single Crown Network	4				•	•							•	•			
	Royal Double Crown Network	8				•	•							•	•			
	Royal Single Crown USB	4+1				•	•							•	•			
	Royal Double Crown USB	4+2				•	•							•	•			
			Metallurgy			Construction					Insulators							

Master Crown



For over four decades, Siltech has been synonymous with uncompromising quality and unmatched performance in the high-end audio world. The Master Crown Series represents the apogee of our endless quest for perfection, setting new standards of excellence in the industry.

For our scientific engineering team, who hold master's degrees and PhDs, it has been a challenge to solve the last frontier in cable design. It took almost a decade since our last flagship cable series, eventually discovering a new force affecting sonic performance. We immediately realized this is a level never heard before.

CRAFTSMANSHIP AND INNOVATION

At the heart of the Master Crown Series lies our revolutionary technology, engineered to deliver unbeatable performance and musicality. Each cable is diligently crafted with our proprietary S10 monocrystal silver conductors, precisely drawn from

the purest silver possible for unmatched purity and audio transparency, and all Master Crown cables are enhanced by adding gold to the equation. Years of fundamental research, material science, magnetic field analysis, and innovations in cable construction have led to the best audio cable the world has ever seen and heard; Siltech's ultimate masterpiece!

Every successor, every new Siltech model, has to surpass the previous generation of cables by a wide margin. We believe it is the key reason for our long worldwide success story.

Master Crown is not a step or an incremental improvement; it's a huge breakthrough. It is superior to any other cable in each and every performance parameter, some of which are only revealed by the most advanced simulations and the most sensitive measurement apparatuses in the world.

Master Crown	Model	Cores	Monocrystal copper	Pure silver-gold alloy G7	Pure silver-gold alloy G9	Pure S10* monocrystal silver	Twisted pair	Star quad	Twisted coax pair	Hexagon	Siltech special Multicell	Kapton	Natural Silk	Teflon	Air insulation	Wide-range shielding	Cross section	
			Metallurgy	Construction		Insulators												
Interconnect cable	Master Crown IC	4				•	•					•	•	•	•	•	•	
Loudspeaker cable	Master Crown LS	6				•			•			•		•	•	•	•	
Power cable	Master Crown Power	18			•	•				•		•		•	•	•	•	

* Wide-range shielding provides protection from a very wide range of frequencies caused by electronic devices.

Symphony Speaker



Frequency range

17Hz-100.000Hz (-3dB)

5 way filter with excellent impulse response.

Distortion

Overall THD distortion < 0.25% 20Hz-20kHz

Sound pressure

SPL max 115dB non clipping.

Speaker settings

Switch for bass amplitude (-7.5 dB- +7.5 dB)

Bass selection Lift or Flat

Selection switch for Ribbon or Diamond tweeter.

Net Weight Bass/Mid/Top

Net 180/43/21kg

Dimensions without base

W x D x H; 70cm x 80cm x 190cm

Loudspeaker width 51cm

Siltech's engineers have been on a long-term quest to define the fundamental DNA of the ultimate loudspeaker. Years of research and development has gone into turning the results of that work into reality. The Symphony is undoubtedly at the cutting edge of technology. Designing a loudspeaker that can deliver a truly musical experience requires a profound understanding of musical instruments and their sound. Much like a symphony, many elements have to be thoroughly studied, combined and tested to create a perfect result. Each and every instrument has its own specific sound which is unique in origin and quality.

The name Symphony captures everything Siltech desires to achieve with this new loudspeaker. The form of the bass cabinet mimics that of a grand piano: open with side panels in an irregular form. A total of eight large 18 inch woofers with ultra-low distortion equal the soundboard of a piano and need very little movement to produce thunderous deep bass in any type of room without distortion, right down to 17Hz.

The middle cabinet is decoupled by large red ruby disks that effectively isolate it from both the other cabinets. It houses three unique low distortion midrange drivers in a line arrangement which reduces reflections from the ceiling and floor. Five more drivers, including two real diamond tweeters handle the high frequencies in a unique way, their output being blended together as if one driver is playing.

The top cabinet is also decoupled with two ruby disks and houses a special lower midrange driver with an oval shaped voice coil for the highest stability under dynamic conditions.

This unique low distortion driver handles the lower range of many musical instruments and male voices. Like the middle cabinet it is aligned for perfect phase coherence.

The Siltech Symphony handles both the lowest notes to the highest tones, all sound with unmatched authenticity. Any kind of music can be played with unrivalled authority at any volume level and the many complicated angles on the cabinets guarantee perfect dispersion of all frequencies, needed for a stable realistic stereo image. This loudspeaker has unmatched naturally low distortion of around 0.25% from 20Hz-20kHz at domestic listening levels, a world record. This five way active speaker system is the most effective way to reproduce every frequency that humans can hear (10 octaves in five equally spaced regions) in perfect quality. And the beauty is that this ultra-high performance is achieved naturally, no DSP correction is used, just advanced cabinet design and materials together with the best possible drivers and components. Heavyweight stainless steel feet anchor the structure to the floor. Height can be adjusted and steel bearings allow for smooth positioning of the 210kg Symphony. Connecting and assembly is easy. The internal electronic circuits activate the power circuit for every driver. High quality amplifiers with a minimum 20W output are needed to drive the loudspeaker

The Symphony can realistically reproduce the sound of any instrument. Everything from bass drum to triangle is presented with mind-blowing musicality. It has extraordinary dynamics and can go from total silence to a huge crescendo without compression. This is what it takes to render the real sound of any performance, to make it sound alive and vibrant.

SAGA Amplifier System



Total bandwidth
>100kHz, volume control end position.

Distortion
THD <0.01%, 2nd harmonic only, 1Hz-100kHz/1W

Dynamic Range
128 dB

Damping factor
100@10Hz-20kHz (8 ohm)

Power output
380W rms in 8 ohm
760W rms in 4 ohm
1250W rms in 2 ohm

Minimal load
2 ohm

Siltech's unique amplifier concept, completely rethinking the principles of high-end amplification: The Structural Amplifier Gain Architecture – S.A.G.A.

Siltech's focus has always been and always will be the reproduction of sound at the highest possible level of integrity and excellence. Since you cannot add quality to a source, it comes down to keeping alterations to the original signal to an absolute minimum. A logical and easy statement that defines the problem but not the solution. There are numerous causes for sound deterioration in audio electronics: circuit design, the influence of individual components on the signal and external noise sources, to name a few. The Siltech sound designers have studied these causes extensively for decades: the fight against sound deterioration has formed the basis of all Siltech products. External influences, whether they be electromagnetic, electrostatic or mechanical are kept out by using materials like Kapton and PEEK applied as dielectrics using proprietary production techniques. Circuit design and component choice were without compromise in both components while the design philosophy was – and still is – free of dogmas.

The traditional way of designing audio equipment, using a slide rule and simple measurement equipment, has unfortunately hardly ever worked in the development of high-end audio. This evident truth propelled Siltech into the realm of physical modeling, implementing NASA awarded Comsol advanced multi-physics programming throughout all of its development design steps and processes for cables, loudspeakers and amplifiers. This in

turn engendered a different way of R&D thinking that has led to a series of new discoveries, including the S.A.G.A. architecture.

Unlike conventional amplifiers, the SAGA system separates the voltage and current gain stages. This offers multiple benefits, allowing the use of tubes and batteries to maintain low noise performance and dynamic range, while isolating this critical function from noisy AC circuitry. The revolutionary Apollo Light Drive provides a clean, high-current DC supply in the P1, delivering dynamic shadings and swings that are almost literally lightning fast, helped by the same superb component and monocrystal silver internal wiring found in the C1.

Although the V1 and P1 can only be used as a pair, one additional benefit is that a single V1 can be used to drive a pair of P1 stereo amplifiers, allowing for high-powered, bi-amplified system solutions. The C1 is a high-quality, ultra-low-noise line-stage/control unit. It is unique in combining batteries with vacuum tubes, even the filament and HT supplies derived from the on-board battery power supply, with only a small trickle charger connecting the C1 to the AC supply. Its minimalist circuit and carefully engineered chassis are designed to maintain signal quality and dynamic range, adding mechanical isolation and minimum interference to the task of providing the perfect noise free feed for the SAGA V1 and P1 amplification. Premium components are used throughout, while the point to point wiring is (naturally) the best available, Siltech's proprietary mono-crystal silver.

Connectors



SCC85
Siltech Gold-plated RCA, available for the Explorer Series.



SC006
Siltech Gold-plated RCA, available for the Explorer and Classic Legend Series.



SST S10 Black
Siltech RCA connector with solid mono x-tal Silver contact pin (SilverS10), available for the Royal Crown Series.



Royal Triple Crown RCA
Siltech Royal Triple Crown RCA connector with solid Mono X-tal Silver contact pin and 4 solid Mono X-tal Silver ground contact pins.

INTERCONNECTS



Neutrik XLR
XLR connector with Gold-plated contact pins. XLR with black housing for the Explorer Series. The nickel housing for Classic Legend Series.



ETI Kryo XLR
Premium XLR connector with silver-plated contact pins used on the Ruby Crown.



Oyaide Focus 1 XLR
Premium XLR connector, with silver and rhodium plated phosphor bronze contacts. For Royal Single Crown and Royal Double Crown.



Royal Triple Crown XLR
Siltech Royal Triple Crown XLR connector with solid Mono X-tal Silver contact pins.



Tac 5
Straight tonearm connector by Clearaudio, angled tonearm connector by SME. Available for the Classic Legend Series and the Royal Crown Series.

SPEAKER



SB006
Siltech Gold-plated banana, available for the Explorer and Classic Legend Series.



SB007
Siltech Rhodium-plated banana, available for the Classic Legend Series.



WBT 610 Ag
WBT silver angled banana, available for the Royal Crown Series.



SSP006
Siltech Gold-plated spade, available for the Explorer and Classic Legend Series.



SSP007
Siltech Rhodium-plated spade, available for the Classic Legend Series.



SSP009
Siltech-made Royal Single Crown Spade connector made from pure G9 silver-gold alloy.



SSP010
Siltech-made Royal Double Crown Spade connector made from pure S10 monocrystal silver.



Royal Triple Crown spade
Siltech Royal Triple Crown Spade connector made from solid Mono X-tal Silver.

Connectors

POWER



AC EUR/UK/US and IEC 10A & 16A Wattgate

Power connectors, available for Explorer Series and Classic Legend Series.



AC EUR/UK/US Furutech Gold and IEC 10A & 16A Furutech Gold

Power connectors, available for the Classic Legend Series.



leGO 8085-Au

US/EU and 10A Power connector with gold plated tellurium copper contacts, used on the Ruby Crown.



AC EUR/UK/US -Furutech FI-50 NCF and IEC 10A Furutech FI-50 NCF & IEC 16A Furutech FI-52 NCF

White carbon power connectors, available for the Royal Crown Series and Royal Triple Crown.



Single Crown Power

Siltech-made Power connector for Royal Single Crown with gold plated tellurium copper contacts. Available as US/EU and 10-15A plug.



Double Crown Power

Siltech-made Power connector for Royal Double Crown with pure silver contacts. Available as US/EU and 10-15A plug.

DIGITAL



BNC

Connector, available for the Classic Legend Series.



BNC

High-end BNC connector, available for the Royal Crown Series.



USB type A and Type B

Custom matt silver USB connectors, available for the Explorer, Classic Legend Series and Royal Crown Series.



Network

Completely shielded high end RJ45 connector, available for the Classic Legend Series and Royal Crown Series.

ZERO OHM



Zero Ohm Link RCA

Specially designed bridge connector to plug in your existing RCA cable, with a G9 silver-gold inline high speed filter of extreme purity.



Zero Ohm Link XLR

Specially designed bridge connector to plug in your existing XLR cable, with a G9 silver-gold inline high speed filter of extreme purity.