

Making the best hi-fi cables has a human dimension. It has to satisfy the emotions and the intellect of designer and listener alike. Pure sound is not an abstract concept at QED. We advance our methods, materials and designs to maximise the listener's enjoyment and satisfaction. Technology may be the means, but inspiration is the creative force. QED interconnects are made by people who care. Dedication is in the detail.

FEBRUARY 98

### WHAT HI-FI?



"Winner of two out of the four Highly Recommended Interconnect gongs in last year's Awards. QED does it again with the Qunex 1. Beneath the purple polythene jacket are strands of oxygen-free copper, screened with aluminium and terminated with gold-plated connectors to give a sound that's open and well-balanced. Add in fine dynamics... and you've a bargain Best Buy."

## QUNEX 1

Could this be the best budget interconnect available today?

Certainly it's destined to become a modern classic with its unprecedented blend of precision build, peerless design, attention to detail and sheer value for money.

QUNEX 1 does exactly what an interconnect should - maintain signal integrity and reject noise. It does it by using a low loss LDPE dielectric, 99.999% Oxygen Free Copper (OFC) and a twisted balanced geometry with an aluminium mylar screening foil in a compact figure 8 format. More remarkable still are the high quality, ergonomically designed phono plugs that feel as good as they look. Listening to QUNEX 1, though, your attention will always return to the music.



Actual size



Available 1.0m pair

Protective PVC Outer Jacket

Twisted Balanced Geometry

99.999% Oxygen Free Copper Conductors

Aluminium Mylar Screening Foil

Low Loss LDPE Dielectric

## QUNEX 2

Hi-fi is about feeding the senses, reawakening the original thrill of music.

It's about discovering excitement and satisfaction in the same moment. At QED we believe in hi-fi's capacity to give pleasure and the emotional impact of great music.

That's why even an interconnect as keenly affordable as QUNEX 2 embraces only the best technologies. Signal integrity is guaranteed by using a low loss LDPE dielectric and 99.999% Oxygen Free Copper (OFC). The twisted balanced geometry provides excellent immunity to external magnetic fields.

A typical coaxial cable would employ the braiding as the negative conductor. Not so the QUNEX 2 which uses the braid only for screening. This further increases the cable's noise immunity.



Actual size



Available 0.5 & 1.0m pairs

24K Gold Plated Pin

24K Gold Plated RCA Connector

99.999% Oxygen Free Copper Conductors

Low Loss LDPE Dielectric

Ergonomically Sculptured Zinc Plated Alloy Barrel

Protective PVC Outer Jacket

Aluminium Mylar Screening Foil

99.999% Oxygen Free Copper Conductors

99.999% Oxygen Free Copper Braid

Low Loss LDPE Dielectric

Twisted Balanced Geometry

AUGUST 98



"This affordable interconnect seems to have it all... It's well made, reasonably priced and great sounding."



MARCH 98

"Qunex 2 was one of the best-liked cables in the test. Qunex 2 fully deserves a Best Buy."

MARCH 98

### WHAT HI-FI?



"Great price, great cable, well made. Nifty name, neat plugs. Five stars. Next..."





## QUNEX 4S

In our efforts to unlock hi-fi's potential, QED is receptive to fresh ideas and design, but we have never lost touch with the importance of experience. We welcome cutting edge technologies, but we have always known the true value of good science.

QUNEX 4S fuses innovation and a healthy respect for first principles in a sophisticated, high-achieving cable. Its double skin construction uses ultra low-loss foamed LDPE for both inner and outer dielectrics. The four conductors are made from Silver Plated 99.999% Oxygen Free Copper (SPOFC) twisted in a quad balanced format. This geometry, together with a double screen of aluminium mylar foil and SPOFC braid, guarantees complete noise immunity. The phono plugs are of a superior ergonomic design - the one piece connector ensures total earth continuity.

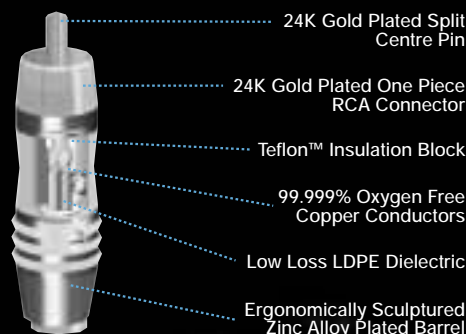
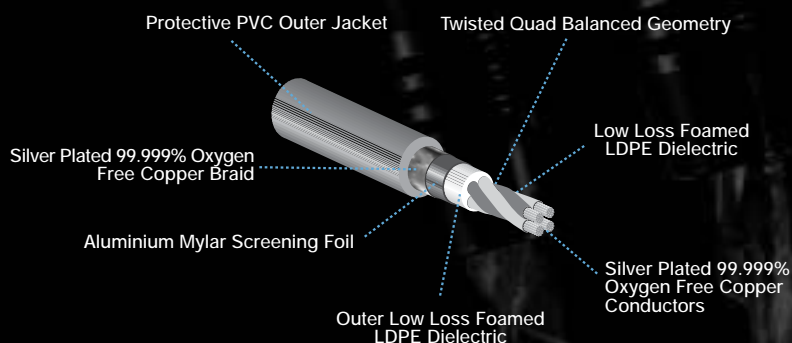


MARCH 99

Actual size



Available 0.5 & 1.0m pairs



## QUNEX Silver Spiral

QUNEX SILVER SPIRAL is QED's flagship interconnect and an outstanding cable by any standards. Its dual co-axial spiral construction and Silver Plated Oxygen Free Copper (SPOFC) conductors are unique. The clarity, natural tonal balance and resolving power of this cable are simply stunning. It captures everything from the finest detail to the loudest transient with effortless transparency and poise.

The best cables deserve the finest plugs. For SILVER SPIRAL, QED has designed a superb new reference plug incorporating a split centre pin and locking mechanism. The connector body is machined from a single solid block to ensure near perfect earth continuity and the insulation block is crafted from Teflon™.

QUNEX SILVER SPIRAL is the natural choice for any top flight hi-fi or home theatre application.



FEBRUARY 2000

"Overall the sound is polished and attractive. One of the better cables around."

OCTOBER 98

WHAT HI-FI?

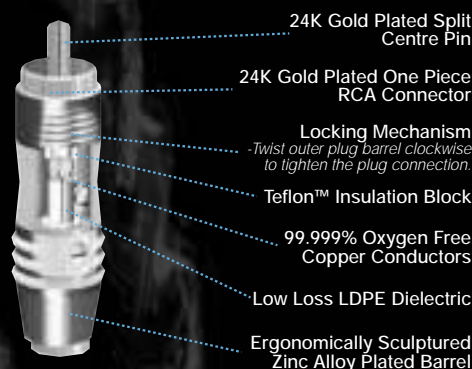
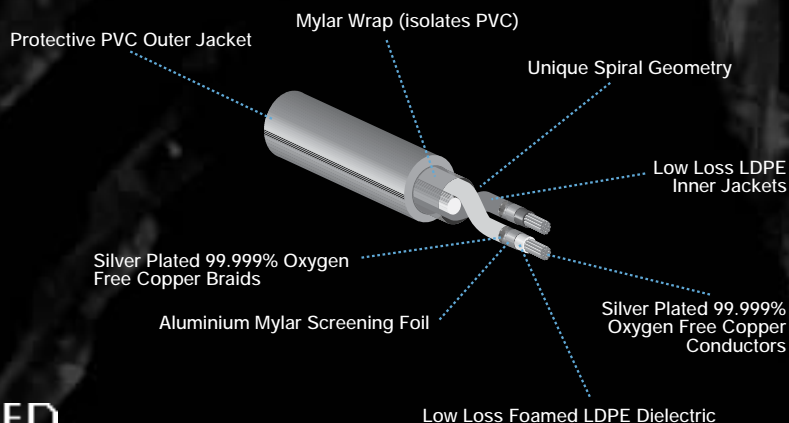


"A second Highly Recommended cable from QED. Silver Spiral looks great... It's so well balanced it's hard to point out sonic characteristics (as it should be)... it's exquisitely natural across the board. In a grand system, it's a worthwhile investment."

Actual size



Available 0.5 & 1.0m pairs



TEFLON is a registered trademark of E.I.DUPONT



## Precision Video/Digital Co-axial Interconnect

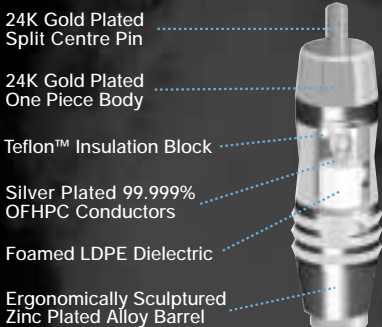
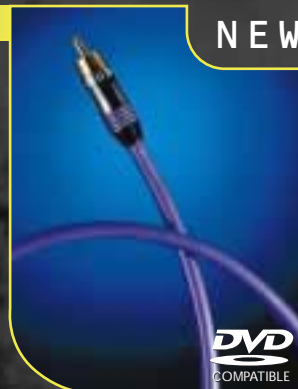
## QUNEX P75

NEW

**QUNEX P75 delivers the clarity and realism you expect from a top-flight Co-ax interconnect at a budget price.** That's because it doesn't cut corners. It gets it right. Optimum transmission line performance demands an impedance of exactly 75 ohms. And to achieve that requires precision - a cable built down to tolerances of 100th of a millimetre, not down to a price. A cable designed for the job.

QUNEX P75 is exactly that - an accurate 75 ohm digital interconnect. Signal and data integrity is ensured by using a low loss LDPE dielectric and 99.999% Oxygen Free Copper (OFC) conductors. A PVC jacket absorbs mechanically induced vibration and a triple screen comprising aluminium Mylar foil and dual 99.999% OFC copper braids prevents electrostatic and electromagnetic interference. The zinc plated alloy phono plugs are ergonomically shaped and use gold-plated pins and connectors to minimise contact resistance and oxidation.

QUNEX P75 does exactly what a video/digital interconnect should - preserves fully intact the information passing along it and rejects noise. It takes care of the technicalities. Your attention will always return to the experience.



24K Gold Plated Split Centre Pin

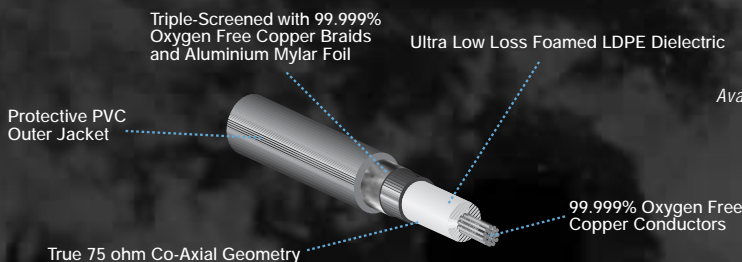
24K Gold Plated One Piece Body

Teflon™ Insulation Block

Silver Plated 99.999% OFHPC Conductors

Foamed LDPE Dielectric

Ergonomically Sculptured Zinc Plated Alloy Barrel



Triple-Screened with 99.999% Oxygen Free Copper Braids and Aluminium Mylar Foil

Ultra Low Loss Foamed LDPE Dielectric

Protective PVC Outer Jacket

True 75 ohm Co-Axial Geometry

99.999% Oxygen Free Copper Conductors

Actual size



Available in 1.0 & 3.0m lengths

## Reference Video/Digital Co-axial Interconnect

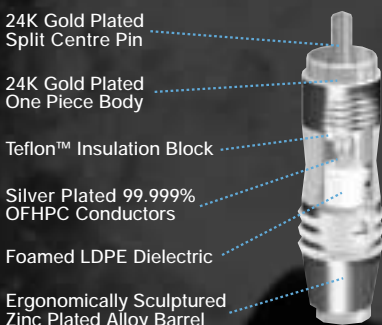
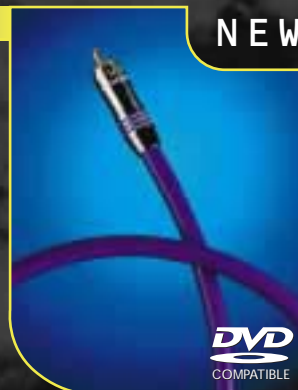
## QUNEX SR75

NEW

Our approach to 75 ohm co-axial cables is no different to that which has made our leading edge speaker cables and audio interconnects acclaimed across the world: good science, the latest technology, the best design and materials.

**QUNEX SR75 utilises silver plated 99.999% Oxygen Free Copper conductors for optimum conductivity and noise immunity.** A high performance foamed low density polyethylene insulation and triple screen of aluminium Mylar foil and dual 99.999% OFC copper braids inhibit leakage and contribute to this cable's superb resolution, transparency and dynamic freedom. SR75 is fitted with our renowned Reference phono plug which incorporates a split centre pin and locking mechanism. The connector body is machined from a single solid block of metal to ensure perfect earth continuity and its zinc plated alloy provides an attractive yet long lasting protective finish. The connectors and centre pin are 24K gold plated to minimise contact resistance and long term oxidation.

QUNEX SR75 is a high precision, high value co-axial cable that will extract optimum performance from the latest generation of digital & video sources for the minimum outlay.



24K Gold Plated Split Centre Pin

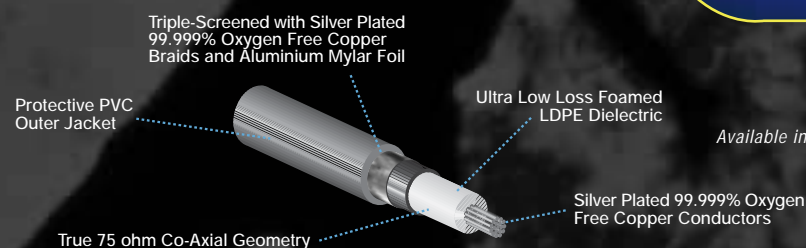
24K Gold Plated One Piece Body

Teflon™ Insulation Block

Silver Plated 99.999% OFHPC Conductors

Foamed LDPE Dielectric

Ergonomically Sculptured Zinc Plated Alloy Barrel



Triple-Screened with Silver Plated 99.999% Oxygen Free Copper Braids and Aluminium Mylar Foil

Ultra Low Loss Foamed LDPE Dielectric

Protective PVC Outer Jacket

True 75 ohm Co-Axial Geometry

Silver Plated 99.999% Oxygen Free Copper Conductors

Actual size



Available in 1.0 & 3.0m lengths

## Reference S Video Interconnect

## QUNEX SVS

With S Video the luma (Y) and chroma (C) components are separated and independently transmitted.

**QUNEX SVS is a video cable designed to extract maximum performance from all "S" video components and is fitted with special "S-Video" connectors.** Its silver plated 99.999% Oxygen Free Copper co-axial cores use an ultra low loss foamed LDPE dielectric double screened with an aluminium Mylar wrap and silver plated SPOFC braid to guarantee complete noise immunity. The special S-Video plugs are a superior ergonomic design with zinc plated alloy barrels and 24K gold plated connectors and centre pins.

With the resolving power of silver and the ultra low-noise properties of its unique twin co-axial construction, QUNEX SVS is an outstanding cable and a natural choice for all quality home theatre applications. As with all QED cables, dedication is in the detail.



24K Gold Plated Connector

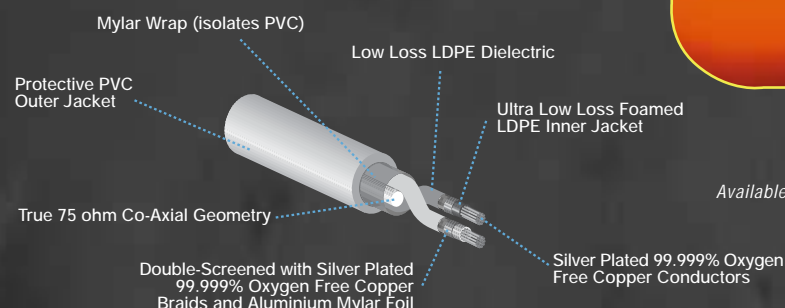
24K Gold Plated Pins

Silver Plated 99.999% OFHPC for Improved Conductivity

Low Loss LDPE Dielectric

Protective PVC Outer Jacket

Ergonomically Sculptured Zinc Plated Alloy Barrel



Mylar Wrap (isolates PVC)

Low Loss LDPE Dielectric

Protective PVC Outer Jacket

True 75 ohm Co-Axial Geometry

Double-Screened with Silver Plated 99.999% Oxygen Free Copper Braids and Aluminium Mylar Foil

Ultra Low Loss Foamed LDPE Inner Jacket

Silver Plated 99.999% Oxygen Free Copper Conductors

Actual size



Available in 1.0 & 3.0m lengths



Optical digital interconnects replace metal conductors and electrical signals with a light source and fibre guide as the transmission media. A well designed optical cable can give appreciably better results than an average coaxial digital interconnect. Now QED offers two state of the art examples, employing only the latest technologies and the best design and materials.



QUNEX OM

QUNEX OM is a reference optical digital interconnect designed specifically for connecting a portable MiniDisc player to an amplifier or recorder equipped with a TOSLINK™ optical connector.

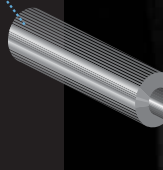
It's built to our exacting standards with a medical grade fibre optic core polished at both ends to maximise light signal transfer. This is then clad in a durable, flexible black PVC jacket which protects the fibre optic core from damage. QUNEX OM features high quality precision moulded plugs with spring-loaded tips that improve optical alignment and optimise the accurate transfer of digital pulses. The result is higher resolution, sharper focus and more music.

TOSLINK is a trademark of the TOSHIBA CORPORATION

Actual size 

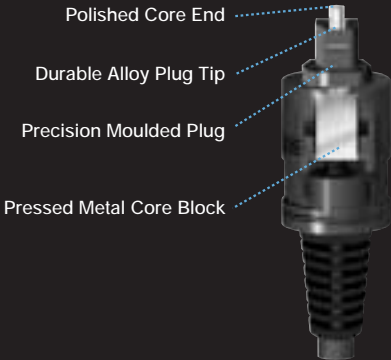
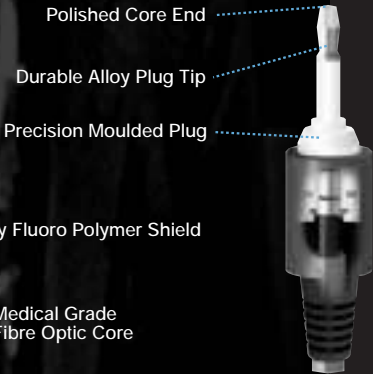
Available in 1.0m length

Protective PVC Outer Jacket



High Density Fluoro Polymer Shield

Medical Grade Fibre Optic Core




QUNEX OT

QUNEX OT is a reference all-purpose optical digital interconnect, ideal for use between a CD transport and DAC or in high quality audio visual applications that include DVD or Laser Disc players. It is compatible with TOSLINK™ optical input and output sockets.

Our no-compromise design and build process demands a medical grade fibre optic core polished at both ends for maximum light signal transfer. This is shrouded with a durable, flexible metallic graphite-grey PVC jacket which protects the fibre optic core from damage. QUNEX OT utilises precision moulded plugs with spring-loaded tips and zinc-plated barrels.

These features improve optical alignment and optimise the accurate transfer of digital pulses. The result is higher resolution, sharper focus and more music.

TOSLINK is a trademark of the TOSHIBA CORPORATION

Actual size 

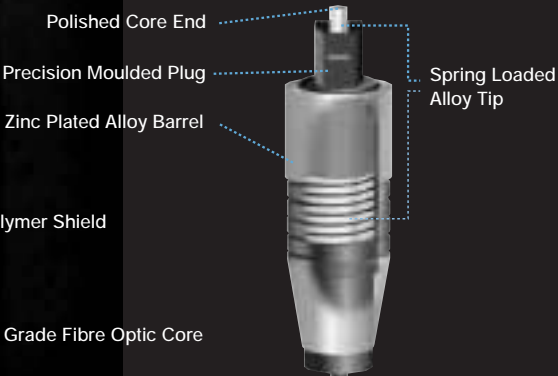
Available in 1.0 & 3.0m lengths

Protective PVC Outer Jacket



High Density Fluoro Polymer Shield

Medical Grade Fibre Optic Core



## QUNEX Plugs

- Unique QED Design
- Half Micron 24k Gold Plated Phono Plugs
- Ergonomically Sculptured Zinc Plated Alloy Barrel
- Teflon Insulation Block



## QUNEX Reference Plugs

- Unique QED Design
- Reference Quality
- Locking Mechanism
- Half Micron 24k Gold Plated Phono Plugs
- Ergonomically Sculptured Zinc Plated Alloy Barrel
- Teflon Insulation Block



# AIRLOC

HIGH PERFORMANCE TERMINATION

## AIRLOC Crimping Tool

**Airloc** is the definitive way to terminate your speaker cable. QED has designed a revolutionary range of solid metal plugs and connectors with half micron gold plating that reduce contact resistance and long term oxidation. Less degradation, more music.

Actual cut-away section of  
unique hexagonal crimp.  
NOTE HOW THE PLUG AND  
CABLE ARE 'SEAMLESSLY' FUSED.



The plug is connected to the cable by means of a unique hexagonal crimp joint, which is formed using a special QED hydraulic crimp tool. This seamlessly fuses the plug and cable to create an airtight seal ensuring perfect long term performance.



**AIRLOC PLUGS**  
(4mm BANANA TYPE PLUG)



AVAILABLE IN 3 DIFFERENT CABLE ENTRY  
SIZES (2.5mm<sup>2</sup> 4.0mm<sup>2</sup> 6.0mm<sup>2</sup>)



**AIRLOC BFA Connector**  
ACCEPTS CABLES OF CONDUCTORS  
SECTIONS 2.5mm<sup>2</sup> - 6.0mm<sup>2</sup>

*Airloc plugs can be fitted to any QED speaker cable. Ask your local dealer for details*



# The Materials & Technology

To make a hi-fi cable that works correctly you don't need black magic. You don't need exotic theories and rare materials. But you do need good science. During 1994 QED conducted the most extensive ever scientific investigation into the effects of speaker cable on hi-fi system performance. You can read the results in the Genesis Report\*. You can hear the results whenever you listen to QED cables and interconnects.

## *99.999% Oxygen Free Copper Conductors*

Oxygen content degrades the purity of copper. All QED cables feature Oxygen Free High Purity Copper conductors with a purity of at least 99.999%. This gives significant audible improvements over standard grade TPC (Tough Pitch Copper) conductors, which have over 5 times the level of Oxygen found in QED cables.

## *Silver Plated 99.999% Oxygen Free Copper Conductors*

Silver plated OFHPC provides even greater conductivity. Because it is less susceptible to oxidation it provides long term performance benefits. Sonically it helps to deliver superb resolution and delicacy, especially when used as part of a 'high-end' system.

## *Spiral Lay Stranding*

Most cables have bunches of conductors with no defined geometric configuration. They need thicker insulation (dielectric) to allow for the variation in conductor diameter caused by this bunch stranding. QED Silver Anniversary cables feature Spiral Lay Stranding of the conductors which has a more consistent shape allowing the use of thinner dielectric. This helps to minimise signal losses into the insulation.

## *True Concentric Stranding*

The Profile Series takes stranding technology a step further. True Concentric Stranding uses hexagonally laid strands which means that only the minimum thickness of dielectric need be applied to maintain integrity of insulation. This further reduces signal losses to vanishingly low levels.

## *Low Density Polyethylene Insulation*

Minimising the cable signal losses that occur between amplifier and speaker is crucial. QED Low Density Polyethylene Insulation is proven to dramatically reduce signal leakage.

## *Foamed Low Density Polyethylene Insulation*

Air is probably the most stable and effective insulator known. By introducing air into the insulation, known as foaming, it further enhances its effectiveness. Foamed Low Density Polyethylene Insulation is utilised wherever possible in the Qunex range to ensure near ideal signal integrity.

All QED cables have 'free space' designed into the cable profile. This ensures the conductors are wherever possible surrounded by the least amount of insulation, so sound quality is further enhanced.

## *Screening Braid*

A screening braid is made up of a number of copper strands woven together to provide a screen against external noise. It can also be used as an effective signal return. This type of screening offers the advantage of a lower resistance but does not normally give 100% conductor coverage.

## *Aluminium Mylar Screening Foil*

Sheet Mylar insulation with an Aluminised coating on one side is wrapped around insulated conductors like a tape. It enhances screening by giving 100% coverage. It has high resistance and is difficult to terminate, therefore it is often used in conjunction with a braid or drain wire.

## *Balanced Geometry*

Balanced Geometry refers to the signal and return conductors being of the same type and of a symmetrical configuration. The twisted balanced configuration uses two conductors. When conductors are twisted together there is some cancellation of the sound degrading field surrounding each conductor, since the field inducing current in each conductor is flowing in opposite directions.

## *Quad Balanced Geometry*

A Quad balanced configuration utilises four separate conductors, two signal and two ground. Using four conductors reduces the resistance and inductance of the cable. The screen is always open ended i.e. not connected at one end, to ensure there is no current flow, causing asymmetry within the cable.

## *Selective Twist Rates*

Twist rates are designed to enhance field cancellation, ensure consistent grouping, reduce inductance and minimise proximity effect. They also have a large effect on the flexibility of the cable. Carefully balancing of these elements drastically reduces cable induced distortions and ensures the cable is flexible enough to use!

Want to know more about the technicalities of speaker cable design and its effects on system performance? Call now for a copy of "The Genesis Report" or visit our Web Site <http://www.qed.co.uk>

# Technical Specifications

## High Performance Speaker Cables

	Mode of Operation	Conductor Section (mm <sup>2</sup> )	Conductor Material	Conductor Dielectric	Loop Resistance (Ω/m)	Parallel Capacitance (pF/m)	Loop Inductance (μH/m)	Dissipation Factor (@10Khz)	Overall Size (mm)	Finish
QED Micro	Single Wire	2 x 1.25	99.999% OFC	Polyethylene	0.0289	25.00	0.63	0.002	2.4 x 5.0	Pearl White
QED Micro Bi-Wire	Bi-Wire	2 x 1.25	99.999% OFC	Polyethylene	0.0289	32.43	0.73	0.002	2.6 x 13.3	Pearl White
QED Original	Single Wire	2 x 2.50	99.999% OFC	Polyethylene	0.0145	40.00	0.58	0.0009	3.6 x 7.0	Pearl White
QED Original Bi-Wire Mk2	Bi-Wire	4 x 2.50	99.999% OFC	Polyethylene	0.0143	22.00	0.76	0.004	3.6 x 17	Pearl White
QED Silver Anniversary	Single Wire	2 x 2.50	SLS Silver Plated 99.999% OFC	Polyethylene	0.0149	42.9	0.51	0.0006	3.3 x 7.0	Shimmer Pearl White
QED Silver Anniversary Bi-Wire	Bi-Wire	4 x 2.50	SLS Silver Plated 99.999% OFC	Polyethylene	0.0149	21.5	0.73	0.0002	3.3 x 17.0	Shimmer Pearl White
Profile 4x4	Single Wire Bi-Wire	8 x 1.25	TCS 99.999% OFC	Polyethylene	0.072 0.0146	42.74 20.73	0.35 0.64	0.0006 0.0003	2.2 x 21.5	Pearl Green
Profile Silver 12	Single Wire Bi-Wire	12 x 0.63	TCS Silver Plated 99.999% OFC	Polyethylene	0.098 0.019	40.10 19.70	0.36 0.64	0.0011 0.0005	1.6 x 20.2	Shimmer Pearl White
Genesis Silver Spiral	Single Wire	2 x 5.5	Silver Plated 99.999% OFC	Polyethylene	0.008	76	0.46	0.007	16.6 Dia.	Translucent Silver
Genesis Silver Spiral Bi-Wire	Bi-Wire	4 x 5.5	Silver Plated 99.999% OFC	Polyethylene	0.008	88	0.46	0.004	19.6 Dia.	Translucent Silver

## Precision Audio Interconnects

	Conductor Section (mm <sup>2</sup> )	Conductor Material	Screening Material	Conductor Dielectric	Loop Resistance (Ω/m)	Parallel Capacitance (pF/m)	Loop Inductance (μH/m)	Dissipation Factor (@10Khz)	Overall Size (mm)	Finish
Qunex 1	4 x 0.21	99.999% OFC	Aluminium Mylar	Low Density Polyethylene	0.152	109.2	0.76	0.0009	11.0 x 5.3	Pearl Purple
Qunex 2	2 x 0.40	99.999% OFC	Aluminium Mylar + 99.999% OFC Braid	Low Density Polyethylene	0.090	137.6	0.70	0.0033	6.1 Dia.	Pearl White
Qunex 4S	4 x 0.21	Silver Plated 99.999% OFC	Aluminium Mylar + Double Silver Plated 99.999% OFC Braid	Foamed Low Density Polyethylene	0.077	129.3	0.35	0.0083	8.1 Dia.	Pearl Green
Qunex Silver Spiral	4.04	Silver Plated 99.999% OFC	Aluminium Mylar + Double Silver Plated 99.999% OFC Braid	Foamed Low Density Polyethylene	0.033	272.9	0.16	0.0012	8.1 Dia.	Translucent Silver

## Precision Video & Digital Interconnects

	Conductor Section (mm <sup>2</sup> )	Conductor Material	Screening Material	Conductor Dielectric	Parallel Capacitance (pF/m)	Characteristic Impedance (Ω)	Overall Size (mm)	Finish
Qunex P75	0.19	99.999% OFC Copper	Aluminium Mylar + Double 99.999% OFC Braid	Low Density Polyethylene	61.0	75	6.2 Dia.	Pearl Purple
Qunex SR75	0.48	Silver Plated 99.999% OFC Copper	Aluminium Mylar + Double Silver Plated 99.999% OFC Braid	Foamed Low Density Polyethylene	65.0	75	8.2 Dia.	Translucent Purple
Qunex SVS	0.94	Silver Plated 99.999% OFC Copper	Aluminium Mylar + Double Silver Plated 99.999% OFC Braid	Foamed Low Density Polyethylene	76.0	75	8.1 Dia.	Translucent Blue

## Optical Interconnects

	Shield Material	Core Material	Jacket	Core Section (mm)	Overall Size (mm)	Finish
Qunex OM	High Density Fluoro Polymer	Fibre Optic PMMA	PVC	1.0 Dia.	4.0 Dia.	Gloss Black
Qunex OT	High Density Fluoro Polymer	Fibre Optic PMMA	PVC	1.0 Dia.	5.0 Dia.	Metallic Grey