

ETI BAYONET PLUG™ BANANA CONNECTOR



The ETI Bayonet Plug™ represents the same kind of lateral thinking and innovation in loudspeaker cable connection that the ETI BulletPlug™ brings to the world of interconnects.

The ETI Bayonet Plug™ challenges the basic architecture of the banana plug and offers an elegant solution to the problems that have plagued all other designs to date.

As with the RCA jack almost all banana plugs suffer from the use of inferior conducting materials. The metallurgical issues were addressed and rectified as a first matter of first priority in the design of the ETI Bayonet Plug™, which like the ETI BulletPlug® utilises gold flashed highly conductive tellurium copper or pure silver for superior conductivity. The vast majority of competitive designs, even expensive 'deluxe' ones, use a composite consisting of brass or phosphor bronze as the main conductor (at 28% the conductivity of copper) with nickel and gold over plating to deliver the jewel-like outer appearance that makes expensive connectors look expensive.

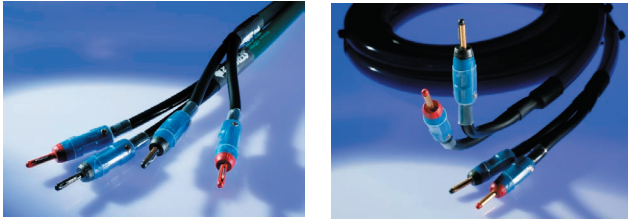
These issues aside, there are other very significant shortcomings in typical banana plug connectors. Most banana plugs, for example, use the conductive element as the locking system. By doing so, conductive performance of the connector is often neglected in favour of the mechanical means of connection.

Typical banana plugs are configured in one of the following ways: a split-pin design where the conductor is sliced into 2 or 4 elements which together create a frictional springing action; a barrel spring where separate leaf contacts are arranged in a cylindrical fashion around the conductive pin, compressing entry and holding the pin in place; a single compression type spring that forces a hollow pin against the inside of the binding post; or a hollow thin-wall tube pin, split down one side, that makes frictional contact via the inherent springing nature of the metal used.

All the above designs provide a secure connection; but sound quality is compromised in every case either as a result of the conductive shortcomings of the mechanism itself or the materials chosen for the task.

In addition, the large cross-section of many brass banana plugs can also cause phase errors and smearing due to skin effect — where high frequency signals travelling on the surface of the conductor are conveyed faster than low frequency signals travelling at varying depths and speeds within the metal itself. In contrast, the hollow thin-wall tube pin can be compromised through a lack of mass — where the wall thickness doesn't support the large current flow from amplifier to speaker. And finally, the split pin plug and the barrel spring plug can induce eddy current distortion where the signal is conveyed through multiple contact points. Sound quality is compromised, often severely, in any of these cases.

The ETI Bayonet Plug™ offers an elegant solution to these problems and provides a faster, cleaner signal of high purity and detail. First, we use a conductive pin of ideal thickness and mass — with minimal skin effect problems, and whose locking means is via a non-conductive frictional pressure insert and coupling spring rather than via the conductive pin itself. This is an essential differentiating point and one of the keys to the superiority of this design — the conductive pin is designed for optimum signal integrity; the locking mechanism is positive and secure but a separate (and dedicated) part of the design. This proprietary locking mechanism offers extremely secure connection and no sonic degradation. The conductive pin is machined from either high-purity tellurium copper (over 90% IACS) or pure silver (106% IACS) to ensure maximum conductivity. This provides up to 320% greater conductivity than gold plated brass plugs, resulting in enhanced electron flow, improved signal integrity, and higher resolution.



The ETI Bayonet Plug™ is not only the best sounding banana plug available, it also outperforms many spade connectors, and in some cases even bare wire connection.

The ETI Bayonet Plug™ dramatically elevates the quality of what is possible in banana plug connection. It offers a better choice of base materials, higher conductivity, more secure connection, and absolute compatibility with all binding posts that accept banana plugs. In short, it does for loudspeaker connection what the ETI BulletPlug® has done for the RCA jack.

Crimping and solder options. Fast heating solder platform – for clean, efficient soldering

Direct 24K gold plating. No nickel plating. No nickel substrate to interfere with sound quality

Unique patent-pending locking mechanism ensures secure, firm fit

Tellurium Copper (CuTe) contact pin provides up to 320% greater conductivity than a standard brass pin

Contact pin offers optimum mass and surface area – for better transmission of electrons

FITS ALL AMPLIFIER AND SPEAKER BINDING POSTS

BAYONET PLUG™ BANANA PLUG

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