

WBT-0102 Cu/Ag RCA type connector with nextgen™ technology

Coaxial plug for cables up to 9 mm dia.

Int. Patent 0460145

US Patent 5,226,841

EP Patent 1 570 554

The RCA plug WBT-0102 is a product of the nextgen™ series of WBT's RCA type connectors. The model WBT-0102 offers a perfect combination of a robust, stable plug body and a filigree signal conductor with reduced mass placed in the front part of the plug.

Central contact unit

It is the core of the nextgen™ innovation: minimalist in terms of the used metal mass, however the conductor material is made of pure copper respectively fine silver. This guarantees an ultimate conductivity and a particularly dynamic and precise signal transmission. This new kind of construction makes WBT-0102 free from interferences to a large extent (eddy current) and helps to reach a considerably higher wideband transmission (≥ 200 MHz) than the standard RCA plugs usually do. Only pure gold or platinum are used for the contact elements as protection against corrosion.

EMI shielding against electromagnetic interfering fields

The clamping sleeve enables a perfect shielding against electromagnetic interfering fields. This is why WBT-0102 is excellently suited for analogue outputs of low-level phono range, i.e. turntables (moving coil, moving magnet), microphones etc. since undesirable interspersions can be very high there depending on the nature of the devices and on what they are surrounded by (cellular phones, computers etc.).

Patented collect chuck device

The contact quality of conventional RCA type plugs are often undeniably poor. They "sit" in the socket rather badly. It is a matter of fact that e.g. the outer contact of RCA type sockets vary between 7.95 and 8.55 mm dia.! WBT has developed the patented collect chuck clamping device in order to enable a firm fit of the plug in the socket being necessary for a good contact as well as a constant high pressure. The patented collet chuck device makes it possible for WBT RCA plugs to adjust to all kind of RCA type sockets so perfectly. You turn the outer sleeve in the direction of the cable and the sleeve's cone presses the three outer contact elements firmly together. This not only provides for the necessary high contact pressure but also clamps the plug firmly to the socket. Consequently, the transition resistance is not only extremely low, but first of all very stable.



Cable strain relief

The cable strain relief is effected by means of a Torx¹ screw. Torx¹ is a high tech screw system. In combination with WBT's special self impeding fine thread it perfectly preserves the pressure once it has been given.

Recommended materials: WBT-0805 silver solder, flat push-on cable shoe

Handling

When connecting or disconnecting the plug make sure that the collet chuck is not activated. You release the mechanism by turning the sleeve in a forward direction.

Important: WBT coaxial plugs are designed exclusively for use in signal connections of the audio and video range. WBT GmbH assumes no liability for incorrect use.

Excerpt from the WBT programme

WBT-0210 Cu nextgen™ RCA type socket:	chassis mounting type, made from pure copper 75 ohms char. impedance, for digital and analogue outputs
WBT-0210 Ag nextgen™ RCA type socket:	same, but made from pure silver
WBT-0800 silver solder:	4% Ag, 0.9 mm dia., with halogen-free flux, low melting temperature: 178/180°C
WBT-0805 silver solder:	lead-free solder with 4% Ag, 0.9 mm dia., halogen-free flux, melting temperature: 216/219°C

¹Torx is a registered trademark of Camcar Textron, USA.

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Detailed product information available. Design and specifications subject to change without notice.