

# WBT-0210 Cu/Ag nextgen™ RCA socket

Coaxial socket for cabinet mounting nextgen™ version

Patent no 102 58 689

Petty patent DBGM8527598

Int. registered design M9001263

Your RCA type socket WBT-0210 is a product of the nextgen™ series, the next generation of WBT's RCA type connectors. nextgen™ RCA connectors do feature a wealth of innovations, all of them good enough to fill audiophiles with enthusiasm. On their nextgen™ products WBT uses exclusively pure copper or fine silver in case of the silver version WBT-0210 Ag as conductor material. Ultimate conductivity therefore is guaranteed. Thanks to the gold and platinum finish the contacts are perfectly protected against corrosion. The conductors filigree construction insures that the nextgen™ socket is totally free from interferences especially from eddy current. Therefore, you will enjoy a much more dynamic and precise signal transmission in your nextgen™ connectors.



### The special bonus: 75 ohms characteristic impedance

Other than conventional RCA type connectors which feature a characteristic impedance between 20 and 35 ohms due to their construction, the impedance of nextgen™ connectors are set on 75 ohms. This makes the nextgen™ WBT-0210 the first and true socket offering an ultra bandwidth in comparison to standard RCA sockets. Especially with the extreme bandwidth of digital connections in HiFi and Home Cinema the match of the characteristic impedance is crucial. Why shouldn't you please yourself giving you this special bonus for your digital connections?

### Outer contact

The outer contact of the nextgen™ RCA socket features a double-wave design embracing the socket's solid Ultramid<sup>1</sup> body. The intelligent wave form insures that a reliable contact is made any time with any standard RCA type plug and, of course, with the new nextgen™ WBT RCA connectors. It is very much due to this special wave design and to the reduction of the conductor material to the optimum, that WBT-0210 is free from distortions including eddy current. Furthermore, the nextgen™ technology is also the secret of WBT-0210's ability of transferring signals ultra rapidly.

### The inner contact

The inner contact is designed as an active spring contact which guarantees that even in conjunction with a RCA type plug not complying with the standards a reliable contact is made. For this purpose the inner socket features a biprism contact surrounded by a spring ring made of bronze.

#### 1. Materials

- internal and external socket made of pure E-Cu (99.996%) (or fine silver in WBT-0210 Ag)
- socket body made of Ultramid<sup>1</sup>

#### 2. Surfaces

- both surfaces: single-layer direct gold-plating with Au 0.3 µm, free from ferromagnetic properties

#### 3. Operating characteristics (reliably observed after more than 10<sup>3</sup> connections/disconnections)

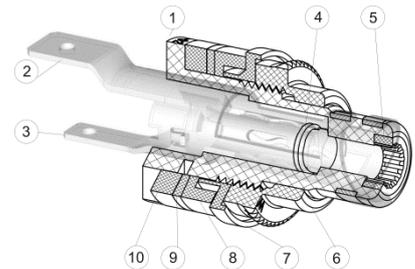
- constant current  $I_D > 10 \text{ A}$
- contact resistance  $R_{ij} \leq 0.1 \text{ mohms}$  (loop, measured with WBT-0110)
- volume resistance  $R_B \leq 0.05 \text{ mohms}$
- self-capacitance  $C \approx B \text{ 3.0 pF}$
- insulation resistance  $R_{iso} > 10^{10} \text{ ohms}$
- characteristic impedance (projective)  $Z = 75 \text{ ohms}$

#### 4. Connections

- for soldering, for cables up to 1.5 mm<sup>2</sup> (17AWG), flat push-on cable shoe

#### 5. Mounting

- comfortably by hand using the knurled nut
- for series processing we recommend the use of (external) circlip pliers
- recommended distance of two sockets from center to center: 17.78 mm = 7/10 inch (standard)



- ① Base element, Ultramid<sup>1</sup>
- ② Minus contact, (double wave principle, open) E-Cu 99.996 % or Ag
- ③ Internal socket with active-spring contact (biprism contact principle), E-Cu 99.996 % or Ag
- ④ Double-wrap spring lock washer, bronze
- ⑤ Colour code ring, PA 6, red & white (standard)
- ⑥ Counternut
- ⑦ Double step washer with flat hole and tappet, 4.6 mm, PA 6, red & white (standard)
- ⑧ Spacer washer, 3.5 mm, PA 6, red & white (standard)
- ⑨ Spacer washer, 2 mm, PA 6, red & white (standard)
- ⑩ Spacer washer, 1 mm, PA 6, red & white (standard)

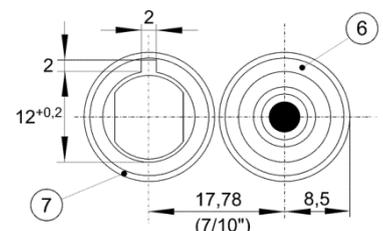
**Important: WBT coaxial sockets are designed exclusively for use in signal connections of the audio and video range. WBT GmbH assumes no liability for incorrect use.**

### Excerpt from the WBT programme

**WBT-0110 Cu nextgen™ RCA type plug:** Coax plug made from pure copper,  
**WBT-0110 Ag nextgen™ RCA type plug:** same, but made from pure silver

<sup>1</sup>Ultramid is a registered trademark of BASF.

WBT and nextgen are registered trademarks of WBT Germany.  
 Detailed product information available. Design and specifications subject to change without notice.



drilling scheme  
 all dimensions in mm, value in brackets:  
 inch sizes