

# RCA type socket nextgen WBT-0210

Coax socket for cabinet mounting, for soldering

**WBT**

## WBT-0210 E

copper version  
WBT-0210 Cu

special silver version  
WBT-0210 Ag



# RCA type socket nextgen WBT-0210

Coaxial socket for cabinet mounting  
nextgen version, for soldering

Made in Germany

Patent Nr. 102 58 689

Petty patent DBGM8527598

and int. registered design M9001263 by WBT

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** as well as **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' daintiness 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 minimum, that WBT-0210 is absolutely free from interferences 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 double-prisme 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)
- Dielectric made of Teflon<sup>2</sup>
- 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- 0108)
- volume resistance  $R_B \leq 0.05 \text{ mohms}$
- self-capacitance  $C \approx 3.0 \text{ pF}$
- insulation resistance  $R_{iso} > 10^{10} \text{ ohms}$
- characteristic impedance (projective)  $Z = 75 \text{ ohms}$

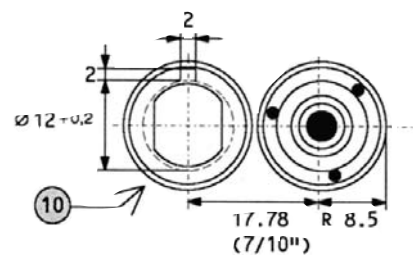
#### 4. Connections

- for soldering, for cables up to 1.5 mm<sup>2</sup> (17 AWG)

#### 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 centres: 17.78 mm = 7/10 inch (standard)

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



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

### 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.

### Recommended materials

- WBT-0800 silver solder (4% Ag)

### Excerpt from the WBT delivery programme

#### WBT-0110 Cu nextgen RCA type plug

Coax plug made from pure copper, 75 ohms characteristic impedance, the ideal counterpart of WBT-0210 Cu

#### WBT-0110 Ag nextgen RCA type plug

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

Printed in Germany 110.210 E 03/2004

<sup>1</sup> Ultramid is a registered trademark of BASF  
<sup>2</sup> Teflon is a registered trademark of Du Pont

WBT is a registered trademark of WBT Germany.  
nextgen is a registered trademark of WBT Germany.

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