

WBT-0201 classic RCA socket

coaxial socket for cabinet mounting, for soldering and crimping

Petty patent DBGM8527598

Int. registered design M9001263 by WBT

To achieve the best possible results from the individual components of your HiFi system, you need optimum connections. It's not so much the cable you use which is decisive but the connectors, since it is at the contact points between cable and system that most transmission loss occurs. For this reason, WBT has developed plugs and sockets for audio systems far superior to the standard types available. WBT quality connectors are made from a special copper alloy and ideally protected against corrosion by 24-carat gold plating, the internal WBT-0201 socket is even made of pure copper. LCP insulation additionally ensures constant dielectric properties. WBT-0201 connectors are non-magnetic. Even more important than the material used are the mechanical properties of a connector. The decisive factor is a high and reliable contact pressure, created for example by clamping or spring mechanisms: A precisely manufactured connector alone can fulfill these requirements. A connector made of solid material (tolerance < 2/100 mm) additionally guarantees low and reliably reproducible contact resistances. The contact quality of many conventional RCA type connectors is undeniably poor. The reason for it is an IEC 60603-14 (1998) non-compliant performance, whereas WBT RCA type connectors meet this standard.



WBT active-spring inner socket contacts

Thanks to the shape of the active-spring contacts the spring path is such that the necessary contact pressure is reliably created if non-standard contact pins of conventional RCA type plugs are being connected with. **Intelligent contact arrangement:** when WBT RCA type sockets are used in conjunction with WBT RCA type plugs. This ensures that the outside conductors are activated before the inside conductors, thus preventing unwanted voltage peaks.

1. Mechanics

- one-piece, low-tolerance contact element (tol. less than ± 0.02 mm)
- external socket with solder lug machined directly from basic element
- internal socket with independently springy contact areas,
WBT active spring mechanic with its wrapping bronze spring lock washer,
large spring path for constant contact pressure even if counter pieces are imprecisely worked.

2. Materials

- external socket made of copper alloy
- internal socket made of pure copper
- internal insulating material: moulded LCP part
- external insulating material: PA 6

3. Surfaces

- external socket: WBT 24-carat gold-plating, Au 0.3 μ m
- internal socket: single-layer direct gold-plating with Au 0.3 μ m
- both surfaces free from ferromagnetic properties

4. Operating characteristics (reliably observed after more than 10^3 connections /disconnections)

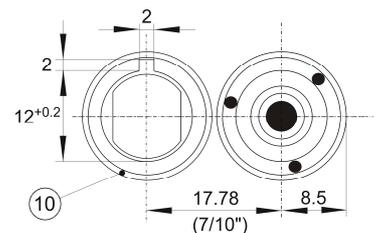
- constant current $I_D > 5$ A
- contact resistance $R_C \leq 0.1$ mohms
- (loop, measured with WBT-0110)
- volume resistance $R_B \leq 0.05$ mohms
- self capacitance $C \approx 6,3$ p F
- insulation resistance $R_{iso} > 1010$ ohms
- characteristic impedance (projective) $Z = 16$ ohms

5. Connections

for soldering, for cables up to 1.5 mm², and for crimping with 2,8 mm flat push-on cable shoe

6. Mounting

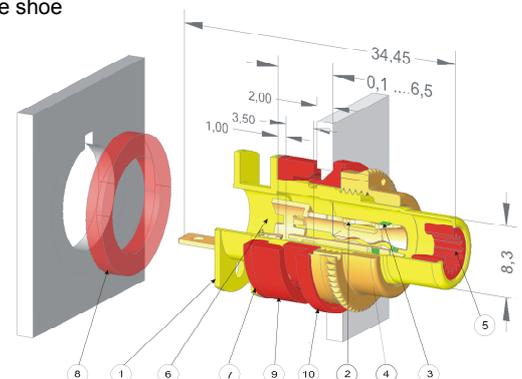
- problem-free by hand using the knurled nut
- for series processing, we recommend the use of (external) circlip pliers
- recommended distance of two socket centers: 17.78 mm = 7/10 inch (standard)



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

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- ① Base element, brass
- ② Plus contact with WBT active-spring contact, pure copper
- ③ Double-wrap spring lock washer, bronze
- ④ 3-hole-counternut
- ⑤ Marking ring, PA 6, red or white
- ⑥ Dielectric (not shown), LCP
- ⑦ Spacer washer, 1 mm, PA 6, red or white
- ⑧ Spacer washer, 2 mm, PA 6, red or white
- ⑨ Step washer, 3.5 mm, PA 6, red or white
- ⑩ Double step washer with flat hole and tappet, 4.6 mm, PA 6 red or white



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: Coax plug made from fine silver

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