

Component list		
1	Plus contact pure copper	1
2	Minus contact pure copper	1
3	Dielectric – plus contact Ultramid ¹⁾	1
4	Dielectric – minus contact Vectra S135 ²⁾	1
5	Holding unit brass alloy	1
6	Shaft of clamping barrel brass alloy	1
7	Head of clamping barrel brass alloy	1
8	Torx ³⁾ screw M4x4 brass alloy	1
Extent of delivery 1 – 8 assembled		
Revision date 15.12.2009		

1) Ultramid 95 is a registered trademark BASF• 2) Vectra is a registered trademark of Ticona • 3) Torx is a registered trademark of Camcar Textron WBT and nextgen are registered trademarks of WBT GmbH

WBT - 0152 Topline RCA Plug nextgen™ technology

(Internat. Pat. EP 0 460 145 B1)

RCA wideband plug for analogue and digital connections

Mechanics

- Single-element low-tolerance contact elements (Tol. < ± 0.02 mm)
- Central Contact Unit consisting of two moulded contact holders, (1)+(3) and (2)+(4)
- The holding unit (5) grips the central contact unit and also provides the cable strain relief thanks to the grub screw (8) (Torx³⁾ T.6).
- Hint: Due to the production process the radial position of the Torx screw hole relativ to the
- contact elements is not specified.

 The brass clamping barrel (6) and (7) is axially screwed over the thread of the holder and provides a permanent tight contact pressure. This way the plug can be adopted perfectly by every type of RCA socket.
- EMC shielding is effectively achieved by the by the clamping barrel (6) and (7) and the holding unit made of brass (5).

2. Materials

- Signal conductors (1) and (2) Pure copper
- Ultramid 1), glass-fibre reinforced Dielectric plus contact (3)
- Vectra S135 2), Dielectric minus contact (4) Holding unit (5) brass
- grub screw (8) Clamping barrel (6) and (7) brass brass

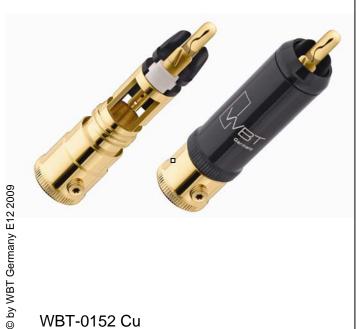
- Signal conductor (1) and (2) pure fine gold 0.5 µm
- Clamping barrel, (6), (7) laser engraved, chromium plated, two layer coating Holding unit (5) gold plated without ferromagnetic intermediate layer

4. Operating Characteristics (reliably observed after more than 10³ connections/disconnections)

- Permanent current $I_{D} > 10 \text{ A}$
- Transition resistance $R_{\bar{u}}$ < 0.1 mOhm (loop measured with WBT -0110) R_{Bi} , R_{Ba} < 0.45 mOhm (patch resistance, inner / outer) $C \approx 2.82 \ pF$ Contact resistance Self capacitance
- $R_{\text{ia}},\,R_{\text{aG}} {>}~1.3{\cdot}10^{9}0\text{hm}$ (conductor/ conductor, Insulation resistance
 - conductor/chassis)
- Z = 75 Ohm for more than 200 MHz Characteristic impedance

5 Dimensions Outer / inner diameter 13.6 / 10.5 mm

- Total length 55 mm 6. Mounting Connection soldering
- for cables up to 10.5 mm dia Cables



WBT-0152 Cu RoHS compliant