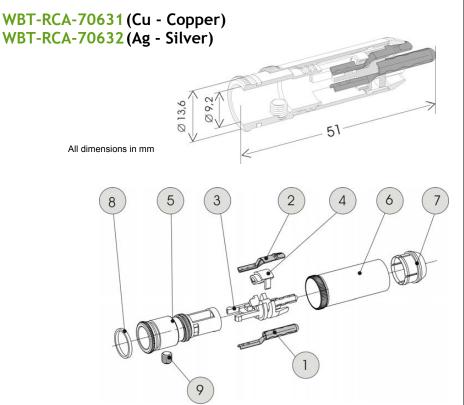
PARTS CONNE

WBT-0102 Cu/Ag E







Component list		
1	Plus contact pure copper or fine silver	1
2	Minus contact pure copper or fine silver	1
3	Dielectric – plus contact Ultramid ¹⁾	1
4	Dielectric – minus contact Dyneon ²⁾	1
5	Holding unit copper alloy	1
6	Shaft of clamping barrel copper alloy	1
7	Head of clamping barrel copper alloy	1
8	Marking ring Desmopan ⁴⁾	1
9	Torx ³⁾ screw M4x4 Copper alloy	1
Extent of delivery 1 – 9 assembled		

Revision date 13.12.2006

WBT - 0102 RCA Plug nextgen™ - technology

(Internat. Pat. EP 0 460 145 B1)

RCA wideband plug for analogue and digital connections

1. 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 brass holding unit (5) grips the central contact unit and also provides the cable strain relief thanks to the grub screw (9) (Torx³) T.6).
- 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).

Pure copper or fine silver

Ultramid 1), glass-fibre reinforced

2. Materials

- Signal conductors (1) and (2) Dielectric plus contact (3)
- Dielectric minus contact (4)
- Grub screw (9)
- Holding unit (5)
- Clamping barrel (6) and (7)
- Signal conductor Cu, (1), (2)
- Signal conductor Ag, (1), (2) Clamping barrel, (6), (7)
- Holding unit (5), Cu version
- Ag version
- Marking ring (8)

pure fine gold 0.5 µm

Dyneon 3)

copper alloy

copper alloy

pure platinum 0.4 μm chromium plated, two layer coating

copper alloy, chromium plated

gold plated without ferromagnetic intermediate layer platinized, without ferromagnetic intermediate layer Desmopan 192 ⁴⁾, coloured versions available according to

R_{Bi} ,R_{Ba}< 0.45 mOhm (patch resistance, inner / outer)

the EIA/CEA norm for multi channel systems

 R_{ia} , R_{aG} > 1.3·10⁹0hm (conductor/ conductor,

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

C ≈ 2.82 pF

13.6 / 9 mm

conductor/chassis)

75 Ohm for more than 200 MHz

- Permanent current $I_D > 10 A$ R_{ij} < 0.1 mOhm (loop measured with WBT -0110)
- Transition resistance Contact resistance
- Self capacitance
- Insulation resistance
- Characteristic impedance
- 5. Dimensions
- Outer / inner diameter
- Total length
- Mounting
 Connection
- Cables

51 mm

for cables up to 9 mm dia.



WBT-0102 Cu RoHS compliant

¹⁾ Ultramid 95 is a registered trademark of BASF • 2) Dyneon is a registered trademark of 3M • 3) Torx is a registered trademark of Camcar Textron Desmopan is a trademark of Bayer • WBT and nextgen are registered trademarks of WBT GmbH