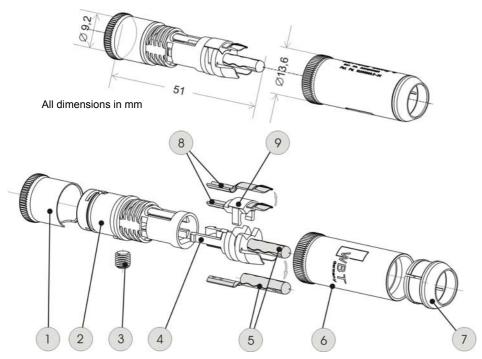
PARTS CONNE

WBT-0110 Cu/Ag E

WBT-RCA-66332 (Ag - Silver) WBT-RCA-66331 (Cu - Copper)





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

Revision date 24.08.2006

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



WBT-0110 Characteristic Impedance 75Ω RoHS compliant

WBT - 0110 RCA Plug nextgen™

(Internat. Pat. EP 0 460 145 B1)

RCA wideband plug for digital and analogue connections

1. Mechanics

Single-element low-tolerance contact elements (Tol. < ± 0.02 mm)

Central Contact Unit consisting of two moulded contact holders, (4)+(5) and (8)+(9)

The Ultramid ¹⁾ holding unit (2) grips the central contact unit and also provides the cable strain relief thanks to the grub screw (Torx³) T.6).
The electrically insulated aluminium 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 (6) and the cap made of brass (1).

2. Materials

Signal conductors (5) and (8)

Dielectric plus contact (4) Dielectric minus contact (9)

Cap (1) and grub screw (3)

Holding unit (2)

Clamping barrel (6) and (7) 3. Surfaces

Signal conductor Cu (5), (8) Signal conductor Ag (5), (8)

Clamping barrel (6), (7)

Cap (1), Cu version Ag version

Holding unit (2)

Self capacitance

5. Dimensions

6. Mounting

- Connection

Insulation resistance

Outer / inner diameter Total length

Characteristic impedance

Pure copper or fine silver

1), glass-fibre reinforced Ultramid

Dyneon 3)

brass

glass-fibre reinforced (30%) polyamide 6.6 aluminium magnesium alloy

pure fine gold 0.5 µm

pure platinum 0.4 μm

laser engraved, coloured anodized ceramic gold plated without ferromagnetic intermediate layer platinized, without ferromagnetic intermediate layer

coloured versions available according to the EIA/CEA

norm for multi channel systems 4. Operating Characteristics (reliably observed after more than 10³ connections/disconnections)

I_D > 10 A Permanent current

 $R_{\ddot{u}}$ < 0.1 mOhm (loop measured with WBT-0110) Transition resistance R_{Bi} , $R_{Ba} \!\!< 0.45$ mOhm (patch resistance, inner / outer) C $^{\approx} 2.65$ pF Contact resistance

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

conductor/chassis)

Z = 75 Ohm up to 1GHz

13.6 / 9 mm 51 mm soldering

by WBT Germany E08 2006