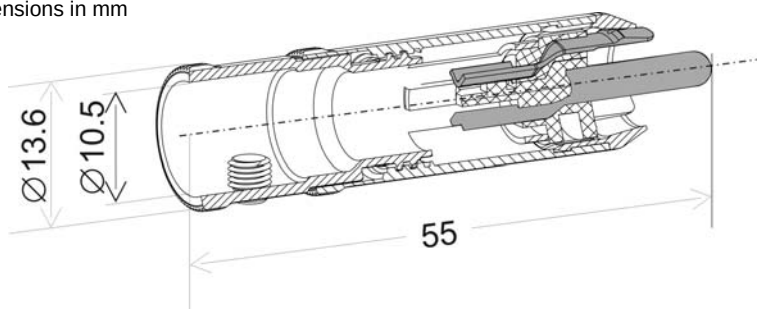
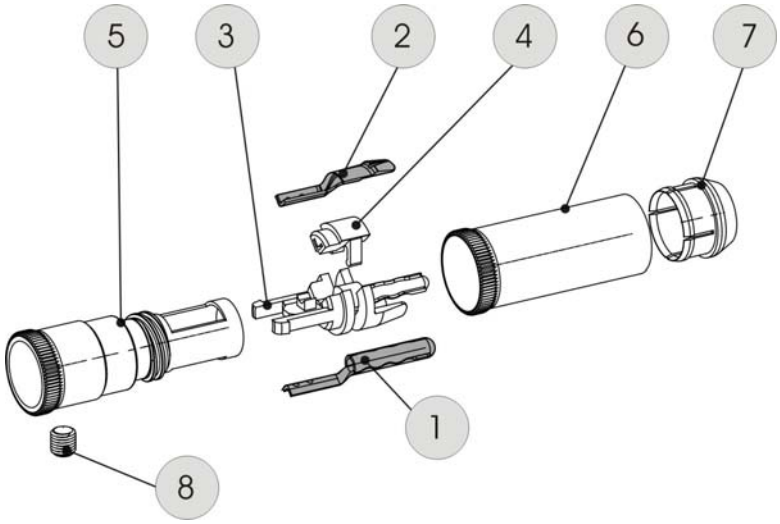
# WBT-0152 Ag E

All dimensions in mm




## Component list

| | | |
|---|---|---|
| 1 | Plus contact fine silver | 1 |
| 2 | Minus contact fine silver | 1 |
| 3 | Dielectric – plus contact Ultramid [1] | 1 |
| 4 | Dielectric – minus contact Vectra S135 [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 | Torx [3] screw M4x4 copper 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
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## WBT - 0152 Topline RCA Plug nextgen™ technology

**(**Internat. Pat. EP 0 460 145 B1**)**

WBT-0152 Ag
RoHS compliant

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 holding unit (5) grips the central contact unit and also provides the cable strain relief thanks to the grub screw (8) (Torx[3] 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) | fine silver |
| – Dielectric plus contact (3) | Ultramid [1], glass-fibre reinforced |
| – Dielectric minus contact (4) | Vectra S135 [2], |
| – Holding unit (5) | brass |
| – grub screw (8) | brass |
| – Clamping barrel (6) and (7) | brass, chromium plated |

3. Surfaces:

| | |
|---|---|
| – Signal conductors (1) and (2) | pure platinum 0.4 µm |
| – Clamping barrel, (6), (7) | laser engraved, chromium plated, two layer coating |
| – Holding unit (5), | platinized, without ferromagnetic intermediate layer |

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

| | |
|---|---|
| – Permanent current | $I_D$ > 10 A |
| – Transition resistance | $R_{ü}$ < 0.1 mOhm (loop measured with WBT -0110) |
| – Contact resistance | $R_{Bi}$ ,$R_{Ba}$< 0.45 mOhm (patch resistance, inner / outer) |
| – Self capacitance | C ≈ 2.82 pF |
| – Insulation resistance | $R_{ia}$, $R_{aG}$> 1.3·$10^9$0hm (conductor/ conductor, conductor/chassis) |
| – Characteristic impedance | Z = 75 Ohm for more than 200 MHz |

5 Dimensions

| | |
|---|---|
| – Outer / inner diameter | 13.6 / 10.5mm |
| – Total length | 55 mm |

6. Mounting

| | |
|---|---|
| – Connection | soldering |
| – Cables | for cables up to 10.5 mm dia |





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