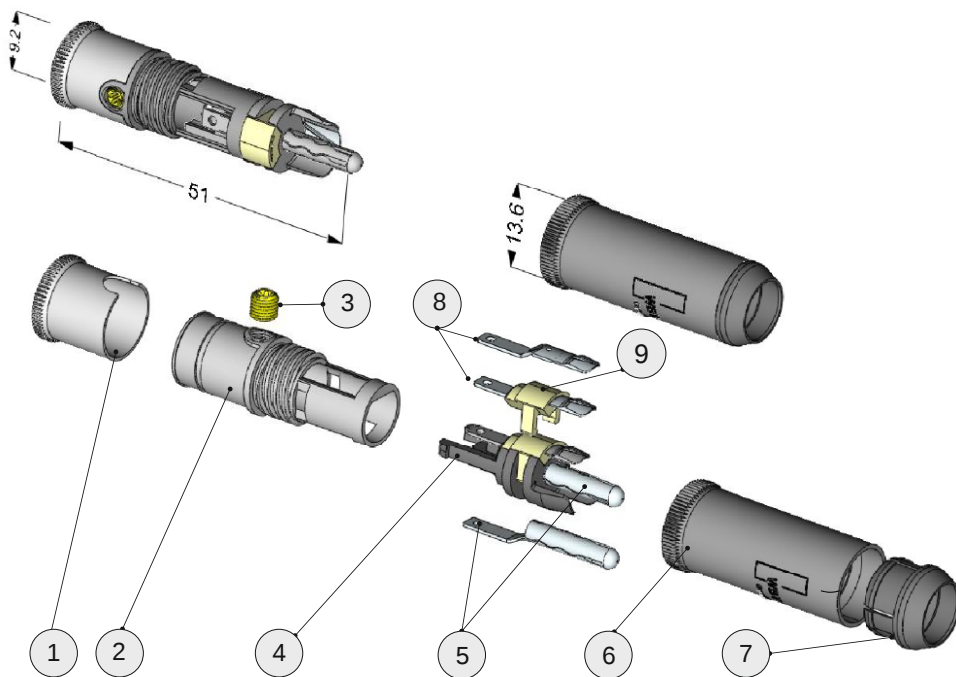




All dimensions in mm

Component list

1	Cap, brass	1
2	Holding Unit, PA	1
3	Torx ¹⁾ Screw M4x4, brass	1
4	Dielectric 'Plus', PA	1
5	Signal Conductor 'Plus', fine silver	1
6	Shaft of Clamping Barrel, AlMg alloy	1
7	Head of Clamping Barrel, AlMg alloy	1
8	Signal Conductor 'Minus', fine silver	1
9	Dielectric 'Minus', LCP	1

Extent of delivery 1 – 9 assembled

Revision date 08.07.2024

¹⁾Torx® is a registered trademark of Camcar Textron • ²⁾Ultramid is a registered trademark of BASF SE • WBT and nextgen™ are registered trademarks of WBT-Industrie GmbH

WBT - nextgen™



Hybrid construction for high contact quality



Environmentally friendly and resource-saving production



Fully automated production Made in Germany, 100%!

WBT-0110 Ag nextgen™ RCA Plug

(Internat. Pat. EP 0 460 145 B1)

RCA / Cinch wideband plug for digital and analog connections

1. Mechanics

- single-element low-tolerance contact elements (Tol. $\leq \pm 0,02$ mm)
- Central Contact Unit consisting of two moulded contact holders (4), (5) and (8), (9)
- the Ultramid²⁾ Holding Unit (2) grips the central contact unit and also provides the cable strain relief thanks to the Grub Screw (Torx³⁾ T.6)
- the electrical insulated aluminium Clamping Barrel (6), (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 / Cinch socket
- EMC shielding is effectively achieved by the Clamping Barrel (6), (7) and the Cap (1)

2. Materials

- Signal Conductors (5), (8) fine silver
- Dielectric 'Plus' (4) PA, glass fibre reinforced
- Dielectric 'Minus' (9) LCP
- Cap (1), Grub Screw (3) brass
- Holding Unit (2) PA, glass fibre reinforced
- Clamping Barrel (6), (7) aluminium magnesium alloy

3. Surfaces

- Signal Conductors (5), (8) fine silver, pure
- Clamping Barrel (6), (7) coloured anodized ceramic
- Cap (1) platinized, without ferromagnetic intermediate layer
- Holding Unit (2) coloured versions available according to the EIA/CEA standard for multichannel systems

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

- Permanent current $I_D > 10$ A
- Transition resistance $R_0 < 0,1$ mOhm
- Contact resistance $R_{Bi}, R_{Ba} < 0,1$ mOhm (patch resistance, inner/outer)
- Self capacitance $C \approx 2,5$ pF
- Insulation resistance $R_{ia}, R_{ac} > 10^{10}$ Ohm (conductor/conductor, conductor/chassis)
- Characteristic impedance $Z = 75$ Ohm up to 1 GHz

5. Dimensions

- Outer / inner diameter 13.6 / 9 mm
- Total length 51 mm

6. Mounting

- Connection soldering, crimping (2.8 mm flat push-on cable shoe)
- Cables for cables up to 9 mm dia.

Warning: The use of contacting agents and cleaners containing solvents can lead to damage to the plastic components.



RoHS compliant

Characteristic Impedance 75 Ω up to 1 GHz(for 75 Ω digital connections and analog broadband applications)