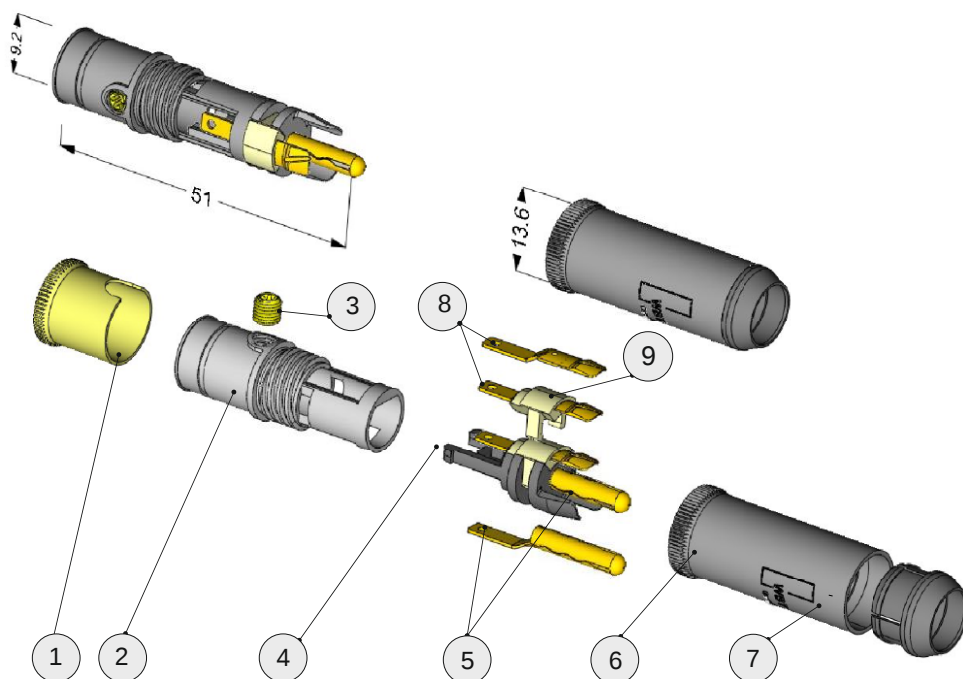




All dimensions in mm

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', pure copper	1
6	Shaft of Clamping Barrel, AlMg alloy	1
7	Head of Clamping Barrel, AlMg alloy	1
8	Signal Conductor 'Minus', pure copper	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, nextgen™ and PlasmaProtect™ 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 Cu 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. $< \pm 0,02$ 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 (3)
- 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 socket
- EMC shielding is effectively achieved by the Clamping Barrel (6), (7) and the Cap (1)

2. Materials

- | | |
|------------------------------|----------------------------|
| – Signal Conductors (5), (8) | pure copper |
| – 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 Conductor (5), (8) | 24k nickel-free direct gold plating by PlasmaProtect™, non-ferromagnetic |
| – Clamping Barrel (6), (7) | coloured anodized ceramic |
| – Cap (1) | gold-plated without ferromagnetic intermediate layer |
| – Holding Unit (2) | coloured versions available according to the EIA/CEA standard for multi-channel systems |

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

- | | |
|----------------------------|---|
| – Permanent current | $I_D > 10$ A |
| – Transition resistance | $R_{ti} < 0,1$ mOhm |
| – Contact resistance | $R_{Bi}, R_{Ba} < 0,1$ mOhm (patch resistance, inner/outer) |
| – Self capacitance | $C \approx 2,5$ pF |
| – Insulation resistance | $R_{ia}, R_{aG} > 10^{10}$ 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)