



All dimensions in mm

### Component list

1	Cap, brass	1
2	Holding Unit, PA	1
3	Torx <sup>1)</sup> 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

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<sup>1)</sup>Torx® is a registered trademark of Camcar Textron • <sup>2)</sup>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

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 Ultramid<sup>2)</sup> 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  $R_{ij} < 0,1$  mOhm
- Contact resistance  $R_{Bi}, R_{Ba} < 0,1$  mOhm (patch resistance, inner/outer)
- Self capacitance  $C \approx 2,5$  pF
- Insulation resistance  $R_{ia}, R_{iG} > 10^{10}$  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  $75 \Omega$  up to 1 GHz  
(for  $75 \Omega$  digital connections and analog broadband applications)



WARNING

This product can expose you to chemicals including phthalates, lead or lead compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).