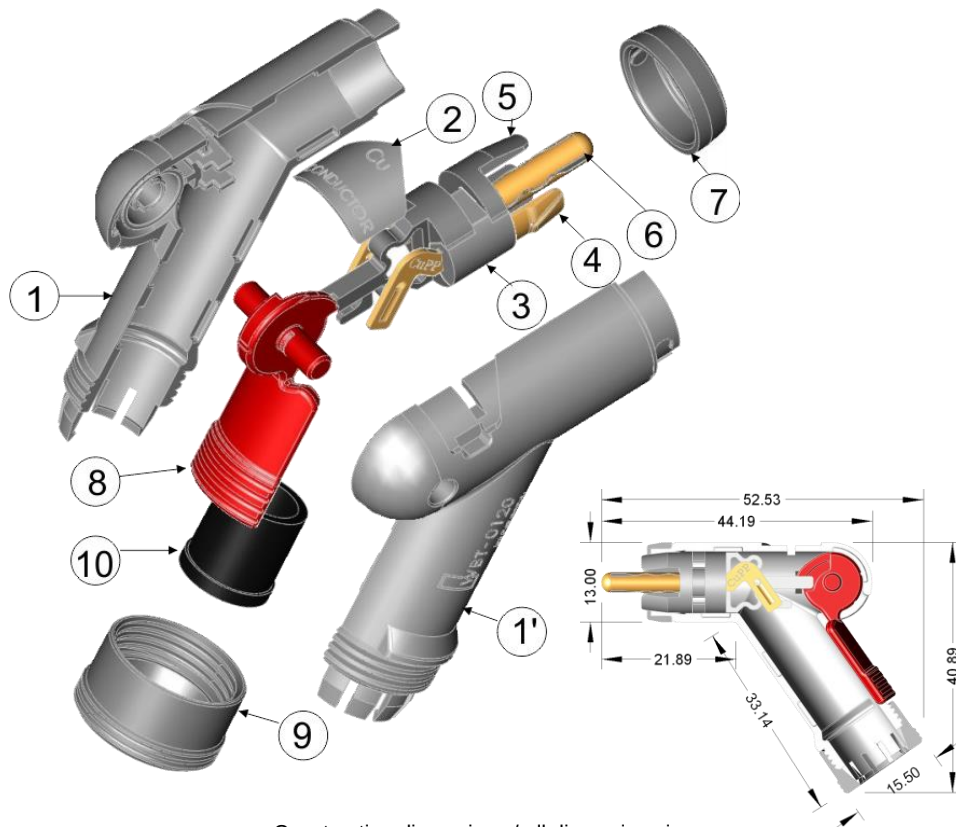




Construction dimensions / all dimensions in mm

Component list

1	Housing (two-part), PC	1
2	Fixing / Marking Clip, PC	1
3	Dielectric 'Minus', LCP	1
4	Signal Conductor 'Minus', pure copper	1
5	Dielectric 'Plus', PA	1
6	Signal Conductor 'Plus', pure copper	1
7	Bayonet Clip Ring, PC	1
8	Clamping Lever, PA 6.6	1
9	Collet Clamping Ring, (strain relief), PC	1
10	Fitting Grommets for 5, 6, 7 or 8 mm Ø, TPE	1 ea.
Extent of delivery 1 - 9 assembled		
Revision date 20.10.2023		

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WBT - nextgen™



Hybrid construction for high contact quality



Environmentally friendly and resource-saving production



Fully automated production Made in Germany, 100%!

WBT-0120 Cu nextgen™ RCA Plug

(Pat. Pend. 20 2022 102 406.5.)

RCA wideband plug for digital and analogue connections

RoHS compliant



Characteristic impedance 75 Ω up to 1 GHz
(for 75 Ω digital connections and analogue broadband applications)

1. Mechanics

- single-element low-tolerance contact elements
- central contact unit consisting of two moulded contact holders (3), (4) and (5), (6)
- the Housing (1), (1') ensures that the central contact unit can be moved axially via an eccentric lever mechanism
- the conical outer contour of the contact unit transforms the axial displacement caused by the Clamping Lever (8) into opening widths for easy plugging and for a firm seat with spring-loaded optimal contact pressure, even on RCA sockets exceeding standard tolerance limits
- the strain relief of the connected cables is realized by the Collet Clamping Ring (9)
- different cable diameters from 5 to 9 mm can be compensated by using one of the included Fitting Grommets (10)

2. Materials

- Signal Conductors (4), (6) pure copper
- Dielectric 'Plus' (5) PA
- Dielectric 'Minus' (3) LCP
- Clamping Lever (8) PA
- Fitting Grommets (10) TPE
- Housing, Fixing Rings (1), (1'), (7), (9) PC
- Fixing / Marking Clip (2) PC

3. Surfaces

- Signal Conductor (4), (6) 24k nickel-free direct gold plating by PlasmaProtect™, non-ferromagnetic
- Clamping Lever (8) colour coded according to EIA/CEA-863

4. Operating Characteristics

- Transition resistance $R_U < 0,1 \text{ mOhm}$ (measured loop with WBT-0110)
- Contact resistance $R_{Bi}, R_{Ba} < 0,1 \text{ mOhm}$
- Self capacitance $C \approx 2,5 \text{ pF}$
- Insulation resistance $R_{ia}, R_{ag} > 10^{10} \text{ Ohm}$ (conductor/conductor, conductor/chassis)
- Characteristic impedance $Z = 75 \text{ Ohm}$ up to 1 GHz

5. Dimensions

- see figure above

6. Mounting

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