





Component list		
1	cap brass	1
2	Holding unit Ultramid <sup>1)</sup>	1
3	Torx <sup>3)</sup> screw M4x4 brass	1
4	dielectric – plus contact Ultramid <sup>1)</sup>	1
5	plus contact pure copper	1
6	shaft of clamping barrel brass	1
7	head of clamping barrel brass	1
8	minus contact pure copper	1
9	dielectric – minus contact Vectra S135 <sup>2)</sup>	1

Extent of delivery 1 – 9 asembled

Revision date 14.2.2012

<sup>1)</sup> Ultramid 95 is a registered trademark BASF• <sup>2)</sup> Vectra is a registered trademark of Ticona • <sup>3)</sup> Torx is a registered trademark of Camcar Textron WBT and nextgen are registered trademarks of WBT GmbH



WBT-0114 Cu Characteristic Impedance 75Ω >200MHz RoHS compliant

## WBT - 0114 RCA Cinch Plug nextgen™

(Internat. Pat. EP 0 460 145 B1)

RCA / Cinch wideband plug for digital and analogue connections

1. Mechanics

Single-element low-tolerance contact elements (Tol. < ± 0.02 mm)

- Central Contact Unit consisting of two moulded contact holders, (4)+(5) and (8)+(9)
- The Ultramid 1) holding unit (2) grips the central contact unit and also provides the the cable
- strain relief thanks to the grub screw (Torx<sup>3</sup>) T.6). 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 / Cinch socket.
- EMC shielding is effectively achieved by the by the clamping barrel (2) and (3) and the cap made of brass (8).

2. Materials

Signal conductors (8) and (6) Pure copper

Ultramid 1), glass-fibre reinforced Dielectric plus contact (4)

Dielectric minus contact (9)

Cap (1) and grub screw (3)

Holding unit (2) glass-fibre reinforced (30%) polyamide 6.6

Clamping barrel (6) and (7) brass

3. Surfaces Signal conductor (5) and (8) pure fine gold 0,5 µm

Clamping barrel, (6), (7) laser engraved, coloured Cap (1) black galvanic r

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<sup>3</sup> connections)

Permanent current In > 10 A Transition resistance R<sub>0</sub> < 0,1 mOhm (loop measured with WBT -0110)

 $R_{Bi}$  ,  $R_{Ba} \!\!< 0.1$  mOhm (patch resistance, inner / outer)  $C \, \approx \, 2.5 \; pF$ Contact resistance Self capacitance

 $R_{ia}$ ,  $R_{aG}$ > 10<sup>10</sup>0hm (conductor/ conductor, conductor/chassis) Insulation resistance

Characteristic impedance Z = 75 Ohm up to 200 MHz

5 Dimensions

13,6 / 9mm Outer / inner diameter Total length 51 mm

6. Mounting

- Connection soldering

Cables for cables up to 9mm dia

