



all dimensions in mm

Component List		
1	Base element PC, Makrolon ¹	1
2	Spindle lock (polarity code) PA, Ultramid ² red, white or black	1
3	Signal conductor, Cu pure copper	1
4	Pressing spindle, Ms	1
5	Spindle handle PC, Makrolon ¹	1
6	Screwing cage PC, Makrolon ¹	1
7	Thread plate, VA non-ferromagnetic	1
8	Grub screw, Ms Torx ³ M4 x 7 mm	2
Extent of delivery: 1 - 8 mounted		
Revision date 09.01.2009		

¹⁾ Makrolon is a reg. trade mark of Bayer, Germany
²⁾ Ultramid is a reg. trade mark of BASF, Germany
³⁾ Torx is a reg. trade mark of Camcar Textron, USA

⁴⁾ CE is the abbreviation of Conformité Européenne
⁵⁾ IEC is the abbreviation of International Electrotechnical Commission

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nextgen™ Banana Plug WBT- 0610 Cu

(Pat. pend. 10 2008 007 866)



WBT-0610 Cu
RoHS compliant

Low conductive mass banana plug (nextgen™ technology with optimized conductor mass), high current capability, completely isolated, compliant with CE⁴ EN 60065 and with the international standard IEC⁵ 65 (>34.5 Volt).

1. Mechanics

- One piece contact element
- Reliable double thread joint (for contact and strain relief as well)
(tested under conditions simulating a 5 years environmental thermal stress)
- Optimal contact quality by patented straddle mechanic

2. Materials

- conductor, massive, pure copper
- thread plate, stainless steel VA, non-ferromagnetic
- base element, from transparent Makrolon¹ (PC), T. -max. 85-110°C.
(under extreme exposition to UV radiation a slight change of colour may occur but without affecting functionality)
- spindle lock, made from Ultramid² (PA)
- spindle, brass

3. Surfaces

- Signal conductor: gold plated, nickel-free, non-ferromagnetic

4. Operating Characteristics

- Permanent current $I_D = 0.5 \cdot 10^2 \text{ A}$
- Peak current $I_S = 10^2 \text{ A}$
- Transition resistance $R_{tr} < 0.5 \text{ m}\Omega$
- Insulation resistance $R_{iso} > 10^{10} \text{ Ohm}$
- Electric strength of isolation $> 30 \text{ kV}$

5. Connection

- designed for solder-free crimped connections
- for crimped cable ends up to 1.0 mm^2 (7 AWG) conductor cross section, reliable fixation thanks to Torx³ screws

Warning against usage of contact cleaners: their contents may cause damage to the insulators!

Accessories / useful tools:

WBT offers a wide range of crimping accessories:

Cable end sleeves

pure copper, gold-plated (from 0.5 to 16 mm^2 /20 to 5 AWG)
 fine silver with platinum finish (from 1.5 to 6 mm^2 /AWG 15 to 9)
 special **Crimping Pliers** for the above mentioned tasks and a **Crimpsset** for starters.