



all dimensions in mm

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

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

<sup>4)</sup> CE is the abbreviation of Conformité Européenne  
<sup>5)</sup> IEC is the abbreviation of International Electrotechnical Commission

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## nextgen™ Banana Plug WBT- 0610 Cu

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WBT-0610 Cu  
RoHS compliant

Low conductive mass banana plug (nextgen™ technology with optimized conductor mass), high current capability, completely isolated, compliant with CE<sup>4</sup> EN 60065 and with the international standard IEC<sup>5</sup> 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 Makrolon<sup>1</sup> (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 Ultramid<sup>2</sup> (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  $1.0 \text{ mm}^2$  (7 AWG) conductor cross section, reliable fixation thanks to Torx<sup>3</sup> 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  $16 \text{ mm}^2$  /20 to 5 AWG)  
 fine silver with platinum finish (from  $1.5$  to  $6 \text{ mm}^2$  /AWG 15 to 9)  
 special **Crimping Pliers** for the above mentioned tasks and a **Crimpsset** for starters.