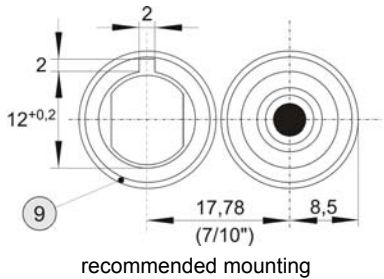


Component list		
1	Signal conductor 'Plus', pure copper	1
2	Signal conductor 'Minus', pure copper	1
3	Contact spring bronze	1
4	Counter nut brass, gold plated	1
5	Marking ring Badamid B70 GF10 <sup>1)</sup>	1
6	Base element PA 6.6 fibre-glass reinforced	1
7	Distance ring PA 6.6 fibre-glass reinforced	1
8	Distance ring PA 6.6 fibre-glass reinforced	1
9	Double Step washer PA 6.6 fibre-glass reinforced	1
Extent of delivery 1 – 9 mounted		
Revision date 14.12.2006		

<sup>1)</sup>Badamid is a registered trade mark of Bada AG • WBT und nextgen are registered trade marks of WBT GmbH



WBT-0210 Cu Ms  
 Characteristic impedance 75Ω  
 RoHS compliant

### WBT- 0210 Cu Ms Coaxial Socket nextgen™

(Internat. Pat. EP 0 460 145 B1)

Coaxial socket for cabinet mounting, *soldering version*

1. Mechanics

- One-piece low tolerance contact elements (Tol. <math>\pm 0,02\text{ mm}</math>)
- Outer conductor with low capacitance patented contact form
- Inner socket with well defined contact surface, WBT active spring mechanism with enclosing beryllium spring; large spring travel for constant contact pressure even with imprecise counter pieces

2. Materials

- Signal conductor (1) und (2) pure copper
- Base element (6) High strength fibre-glass reinforced Polyamide
- Mounted parts (7), (8) und (9) fibre-glass reinforced Polyamide 6.6
- Marking ring Badamid B70 GF10
- Counter nut gold plated brass

3. Surfaces

- Signal conductor WBT -24-carat-gold plating bronze 5 μm, Au 0,3 μm
- counter nut gold plated without ferromagnetic intermediate layer

4. Operating Characteristics (reliable observed after more than 10<sup>3</sup> connections/disconnections)

- Permanent current  $I_D > 20\text{ A}$
- Transition resistance  $R_{01} < 0.1\text{ mOhm}$  (loop measured with WBT -0110)
- Contact resistance  $R_{01}, R_{02} < 0.1\text{ mOhm}$  (patch resistance, inner / outer)
- Self capacitance  $C \approx 2.5\text{ pF}$
- Insulation resistance  $R_{is}, R_{ag} > 10^{10}\text{ Ohm}$  (conductor/ conductor, conductor / chassis)
- Characteristic impedance  $Z = 75\text{ Ohms}$

5. Terminals

- solder, for cables up to 1.5 mm<sup>2</sup>

6. Mounting

- problem-free by hand using the knurled nut
- recommended distance between socket centres: 17,78 mm = 7/10 inch (standard)