

All dimensions in mm

### Component list

1	Base element Ultramid <sup>1</sup>	1
2	Signal conductor, Cu pure copper	1
3	Reinforcement, VA	1
4	Pressure nut Ultramid <sup>1</sup>	1
5	Pressure nut cap, Ms	1
6	Pressure ring Makrolon <sup>2</sup>	1
7	Damping ring	1
8	Marking ring, PA	1
9	Covering ring, Ms	1
10	Double step washer, PA	1
11	Counter nut Ultramid <sup>1</sup>	1

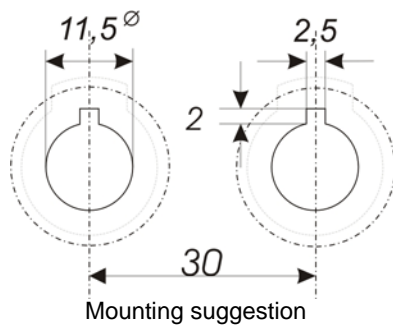
Extent of delivery 1 – 11 mounted

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<sup>1)</sup> Ultramid is a reg. trademark of Albis Plastic GmbH • <sup>2)</sup> Makrolon is a reg. trademark of Bayer AG • <sup>3)</sup> Elastolan 95 is a reg. trademark of Elastolan AB • WBT und nextgen are registered trademarks of WBT GmbH

## WBT- 0705 nextgen™ Pole Terminal

(Internat. Patents and Design Patents EP 1 470 620, EU 953 849)  
Pole terminal for cabinet wall mounting, *plug- / solder version*



Mounting suggestion



WBT-0705 Cu  
RoHS compliant

### 1. Mechanics

- One piece, low tolerance contact element
- Fully insulated construction

### 2. Materials

- Signal conductor (2) pure copper
- Base element (1) Ultramid<sup>1</sup>, PA mineralized, fibre-glass reinforced
- Counter nut (11) and Pressure nut (4) Ultramid<sup>1</sup>, PA, fibre-glass reinforced
- Marking ring (8) and Double step washer (10) PA 6.6
- Damping ring (7) Elastolan 95<sup>3</sup>
- Pressure ring (6) Makrolon<sup>2</sup>
- Pressure nut cup (5), Covering ring (9) brass
- Reinforcement (3) stainless steel, non ferromagnetic

### 3. Surfaces

- Signal conductor gold plated, Nickel-free, non ferromagnetic
- Pressure nut cup, Covering ring Au 0.5 µm
- all metallic parts are free from substances with ferromagnetic properties

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

- Permanent current  $I_D \geq 30$  A
- Peak current  $I_S \geq 200$  A
- Transition resistance  $R_U < 0.1$  mOhm (measured with spade connection)
- Contact resistance  $R_{DAg} < 0.14$  mOhm (measured with spade connection)
- Insulation resistance  $R_{ISO} > 10^{10}$  Ohm (500 V)

### 5. Connection Options

- solder (optimal for cable up to 4 mm<sup>2</sup>/11 AWG)
- plug (for 6.3 mm flat push-on cable shoe)

### 6. Mounting

- Chassis drill hole  $\varnothing 11.5^{+0.2}$  mm with slot 2.5x2 mm for twist prevention (see drilling scheme)
- for wall thickness from 0.9 to 10.0 mm. With puzzle plate WBT-9410 (s. picture on left) from 0.9 to 8.0 mm
- recommended distance between two terminal centres: 30 mm
- recommended tightening torque for the counter nut (11): 1.8 Nm