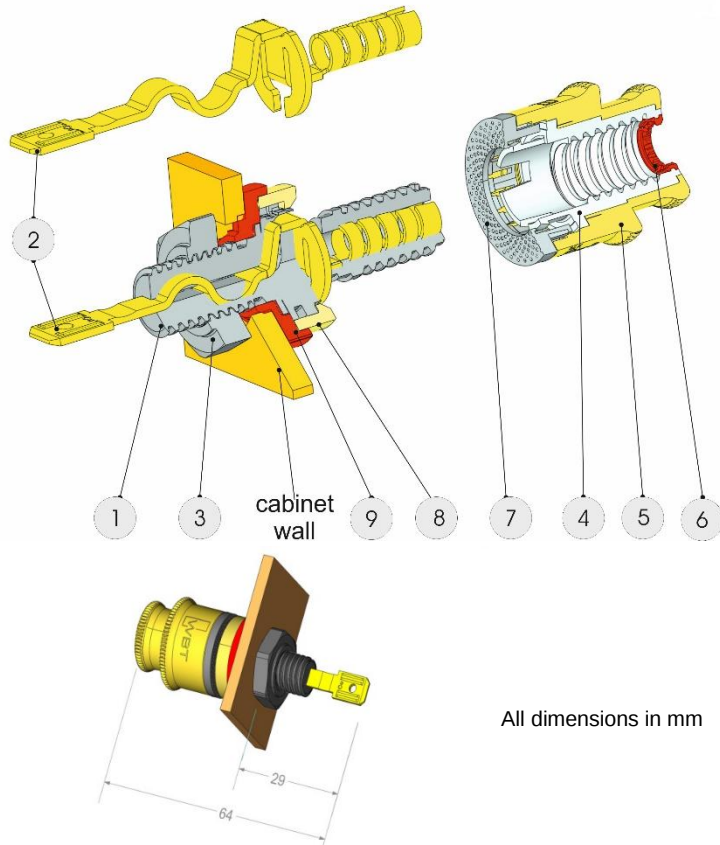




All dimensions in mm

## Component list

|   |                               |   |
|---|-------------------------------|---|
| 1 | Base Element, PA              | 1 |
| 2 | Signal Conductor, pure copper | 1 |
| 3 | Counter Nut, PA               | 1 |
| 4 | Pressure Nut, PC              | 1 |
| 5 | Pressure Nut Cap, Ms          | 1 |
| 6 | Marking Ring, PA              | 1 |
| 7 | Damping Ring, TPE             | 1 |
| 8 | Covering Ring, Ms             | 1 |
| 9 | Double Step Washer, PA        | 1 |

Extent of delivery 1 – 9

Revision date 08.07.2024

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## WBT - nextgen™



Hybrid construction for high contact quality

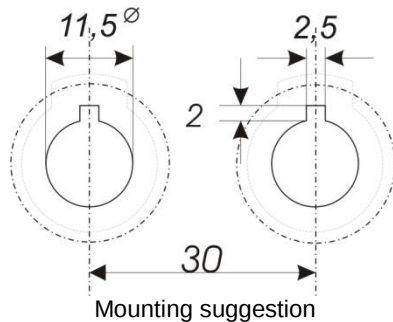


Environmentally friendly and resource-saving production



Fully automated production Made in Germany, 100%!

## WBT-0705 Cu 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

certified according to  
EN IEC 62 368-1 (ES1, PS3),

UL - V1

and

RoHS compliant



## 1. Mechanics

- one-piece, low tolerance contact element
- fully insulated construction
- vibration control, electrical and mechanical

## 2. Materials

- Signal Conductor (2) pure copper
- Base Element (1) PA, mineralized, glass fibre reinforced
- Counter Nut (3) PA, glass fibre reinforced
- Marking Ring (6), Double Step Washer (9) PA 6.6
- Damping Ring (7) TPE
- Pressure Nut Cap (5), Covering Ring (8) brass
- Pressure Nut (4) PC

## 3. Surfaces

- Signal Conductor (2) 24k nickel-free direct gold plating by PlasmaProtect™, non-ferromagnetic
- Pressure Nut Cap (5), Covering Ring (8) 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  $R_{ti} < 0.1$  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

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

**outside**  
4 mm banana  
spades  
Bare cable

## 6. Mounting

- Chassis drill hole  $\varnothing 11.5^{+0.2}$  mm with slot 2.5 x 2 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 (3): 1.5 Nm

## 7. Mounting suggestion

- Impact Sound Interrupter WBT-0718, Version V
- cabinet wiring with nextgen™ Flat Push-On Cable Shoe WBT-0655

Warning: The use of contacting agents and cleaners containing solvents can lead to damage to the plastic components.