nextgen™ Pole Terminal WBT- 0703
(EP 1 470 620, Pat. pend.102011007940)

Pole terminal for cabinet wall mounting, plug / solderversion

1. Mechanics
- One piece, low tolerance contact element
- Fully insulated construction
- Indication of fastening power (torque control)
- Locking feature for contact pressure by vibration damping
- Damping against sound impact

2. Materials
- Signal conductor (2) pure copper
- Base element (1) PA
- Counter nut (8) PA
- Marking ring (4) and double step washer (9) PA
- Damping ring (6) TPE
- Indicator / retaining (5), pressure ring (7) PC
- Pressure nut (3) and covering ring (10) PC

3. Surfaces
- Signalleiter: gold plated, Ni-free, non ferromagnetic

4. Operating characteristics (reliably observed after more than >10³ connection / disconnections)
- Permanent current $I_D \geq 30\,\text{A}$
- Peak current $I_p \geq 200\,\text{A}$
- Transition resistance $R_{\text{tr}} < 0.1\,\text{mOhm}$ (measured with spade connection)
- Contact resistance $R_{\text{cont}} < 0.14\,\text{mOhm}$ (measured with spade connection)
- Insulation resistance $R_{\text{iso}} > 10^{10}\,\text{Ohm}$ (500V)

5. Connection options
- solder (optimal for cable up to 4 mm² / 11 AWG)
- plug (for 6.3 mm flat push-on shoe)

6. Mounting
- chassis drill hole Ø11.5 +0.2 mm with slot 2.5x2 mm for twist prevention (see left → drilling scheme)
- for wall thickness from 0.9 to 10.0 mm, with puzzle plate WBT-9410 from 0.9 to 8.0 mm
- recommended distance between two terminal centres: 30 mm
- recommended tightening torque for the counter nut (8): 1.8 Nm
- recommended fluid nut lock for the counter nut (8): LOCTITE 480

7. Mounting suggestion
- impact sound interrupter WBT – 0718
- cabinet wiring with nextgen™ female blade connector WBT – 0650 / -0655, 30 A with contact retaining and vibration damping

IEC, EN und RoHS compliant
UL – style: V1

Component list

<table>
<thead>
<tr>
<th></th>
<th>Base element, PA</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Signal conductor, Cu Pure copper</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Pressure nut, PC</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Marking ring, PA</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Pressure ring, PC</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Damping unit, TPE</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Indicator, retaining element, PC</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Counter nut , PA</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Double Stepp washer, PA</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Covering ring, PC</td>
<td>1</td>
</tr>
</tbody>
</table>

Extent of delivery 1 – 10 mounted

Revision date 01.04.2011

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All dimensions in mm

Mounting suggestion or hint: impact sound interrupter WBT - 0718