



# 5408.\*\*

## 2.8 mm (.110) UP-TP Terminals



**Description** TP Low insertion flag for standard tab 2.8 x 0.5 with rear dimple  
**Wire section range** 0.50-1.00 mm<sup>2</sup> (AWG 20-18)  
**Max. Insulator Ø** 2.5 mm.

**Materials, Temperature & Contact resistance**

| Part nr. | Material | Finishing      | Max. temp. (C°) | Resist. (mΩ) | UL regulation    |
|----------|----------|----------------|-----------------|--------------|------------------|
| 5408.00  | Brass    | Natural        | 110             | (T.B.D)      | UL <sub>18</sub> |
| 5408.01  | Brass    | Pre-tin plated | 120             | (T.B.D)      | UL <sub>18</sub> |
| 5408.02  | Brass    | Tin-plated     | 120             | (T.B.D)      | -                |
| 5408.30  | Bronze   | Natural        | 120             | (T.B.D)      | -                |
| 5408.31  | Bronze   | Pre-tin plated | 130             | (T.B.D)      | -                |
| 5408.32  | Bronze   | Tin plated     | 130             | (T.B.D)      | -                |

**Notes:** Temperatures as per DIN 61210 standard.  
Maximal contact resistance (crimp zone + friction zone) with minimal suitable wire size (Using IEC 60760 test method)

**Material thickness** 0.3 mm

**Max. Rated current**

| Wire section (mm <sup>2</sup> ) | Current (A) |
|---------------------------------|-------------|
| 0.50                            | 6           |
| 0.75                            | 8           |
| 1.00                            | 8           |



**Thermal derating** (see graphs in following sheet)

**Insertion/Withdrawal forces**

|                  |           |
|------------------|-----------|
| 1st. Insertion   | ≤ 20 N    |
| 1st. Withdrawal  | 12 ÷ 40 N |
| 10th. Withdrawal | ≥ 8 N     |

**Application tool** MN5408

**Wire striping length** 6.0 (±0.5) mm

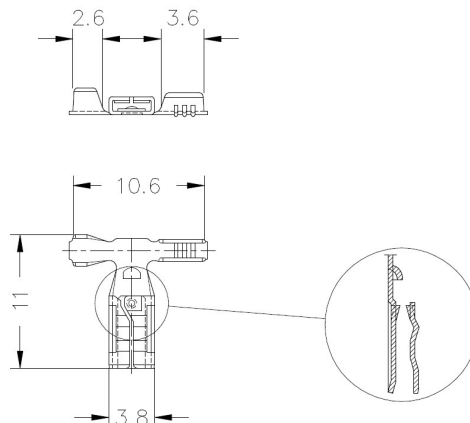
**Crimping parameters & Pull out force**

| Wire section (mm <sup>2</sup> ) (±10%) |        | Conductor (±0.03) |             |             | Insulator (±0.10) | Pull-out force (N) |  |
|--|--------|-------------------|-------------|-------------|-------------------|--------------------|--|
| Nominal                                | Actual | Height (mm.)      | Width (mm.) | Width (mm.) | DIN 46249         | ESCUBEDO           |  |
| 0.50                                   | 0.45   | 1.20              | 2.05        | 2.83        | ≥ 60              | > 70               |  |
| 0.75                                   | 0.68   | 1.30              | 2.06        | 2.85        | ≥ 70              | > 80               |  |
| 1.00                                   | 0.91   | 1.40              | 2.07        | 2.91        | ≥ 80              | > 90               |  |

**Note:** Values only valid for the application tool specified upwards. The insulator widths are only indicative as they are dependent on the sheath thickness of the wire used.

**Packaging** 10000 Pieces on 300 mm. Ø x 160 mm. wide cardboard reel, 12.5 mm terminal chain pitch

**Drawing**



**Approvals**

- RoHS Compliant
- UL (see table above)



**Notes**

T.B.D.: To be determined



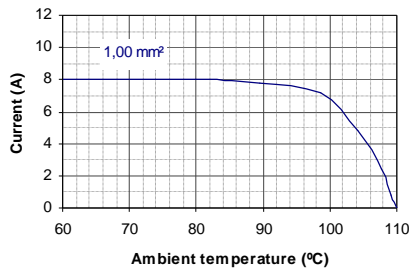
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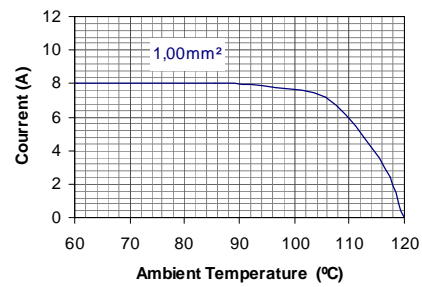
### Thermal derating curves

(Maximum current vs. maximum ambient temperature)

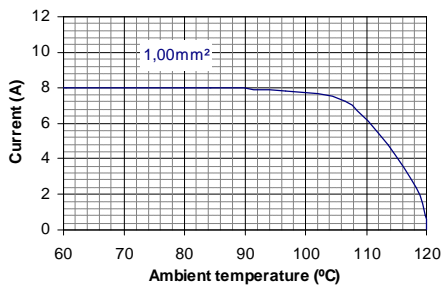
**5408.00 (Brass, natural)**



**5408.01 (Brass, pre-tin plated)**



**5408.02 (Brass, tin plated)**



**5408.30 (Bronze, natural)**

(T.B.D)

**5408.31 (Bronze, Pre-tin plated)**

(T.B.D)

**5408.32 (Bronze, tin plated)**

(T.B.D)

Note: 20% security margin is applied on all derating curves

**Disclaimer**

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|----------|-------------------|------------|-----------------|----------|
| 1        | New format/update | 18/09/2012 | D.Martinez      | A.Calvet |