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 ISO9001:2008 / EN9100:2009

Hi Flex Female Contact



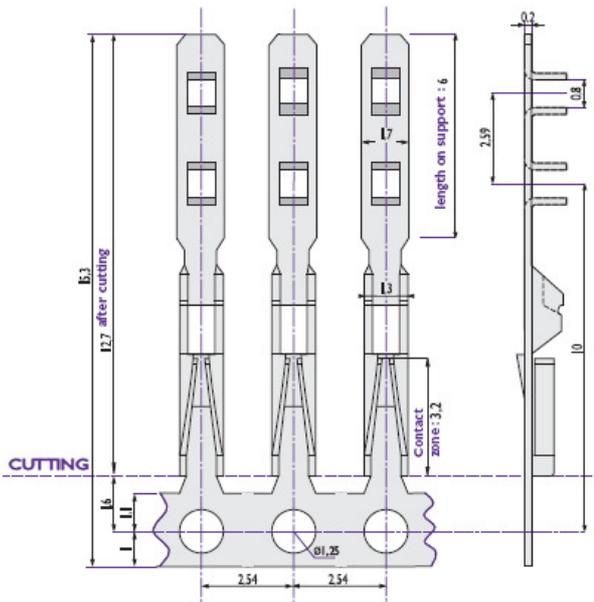
Description

Nicomatic 14106-x2 female contact is a **multi-insertion & multi-flex contact** designed to offer a **stable insertion force and low contact resistance over a large number of mating cycles**. It is more resistant to damage by bent or angled pins, primarily on test devices.

PART NUMBER

14106-X2

- 1** = package by reel of 35 000 contacts tin plated
- 3** = package by reel of 35 000 contacts selective gold plated



Material

Phosphor bronze

Plating

The standard contact is tin plated
 thickness : Ni 2µ+Sn 5µ
 Selective Gold 0,15µ+ Ni 2µ

Mechanical

Contact strength to stripping from circuit:
 15 N min. (3.3 lbs) perpendicular to the tracks
 50 N min. (11.2 lbs) parallel to the tracks

Electrical

Contact resistance: 10mΩ max
 Contact resistance after climatic test: 20mΩ max
 Insulation resistance: 5.10⁵ MΩ at 500 V
 Withstanding voltage: 1 100 V RMS
 Capacitance between two contacts: 4 pF max.
 DC current rating per contact: 3A continuous
 AC current rating per contact: 5A continuous

Thermal

Operating temperature
 -55°C to +150°C (-67°F to +302°F)

Test results*

The new "Hi-Flex" female contact 14106-12 delivers a guaranteed contact resistance and more cycles in a stable/consistent insertion force (after 50 cycles the contact resistance is 10mΩ) .
 The insertion force diminishes without any contact loss. Even with greater insertion angle the electrical contact is preserved (no damage).

*Test = - 14106-12 crimped on jumpers and inserted to OF10 housings.
 - Insertion made on 0,635 square pin headers.
 - Tin/tin.

Contact Insertion Force [N] - 14106-12

