

# Apfel DIN41612 Connectors

## APFEL

## FEATURES OF DIN 41612 EUROCARD

### Two-piece printed circuit connectors

#### ■ Indirect connectors

It can eliminate the problems of board warpage, different board thickness

#### ■ High density

96 contacts in 2.54mm grid are available in a compact body.

#### ■ High reliability

Dual beam metal-to-metal contact polarized connectors for all series to prevent mismatching.

This connectors are versatiliely used in telecommunications, instruments, computers, control system ect.

#### • General specifications:

**Number of contacts:** 16,24,32,48,64,96

**Contact spacing:** 2.54mm(0.1"),5.08mm(0.2" half-loaded)

#### Material

**Insulator:** Glass filled polyester (PBT, UL flammability 94V-0)

**Contacts:** Female copper alloy, male brass

**Contact finish:** Contact area: gold over nickel (per requirements of performance class 3, class 2)

**Termination area:** TIN-plated or gold-plated for long wrap post

#### Mechanical

##### Insertion force:

96 contacts max 90N

64 contacts max 60N

48 contacts max 45N

32 contacts max 30N

16 contacts max 15N

Withdrawl force per contact: min 0.15N

Temperature range:-55°C to +125°C

Air and creepage distance 1.2mm min

#### Electrical

##### Current rating:

20°C 2A

70°C 1A

100°C 0.5A

**Contact resistance:**  $\leq 20m\Omega$

(testing current 100mA)  $\leq 40m\Omega$  after 400 mating cycles

**Capactance between adjacent contacts:** Appr.2PF

**Insulation resistance:**  $\geq 10^{12}\Omega$  (between adjacent cotacts at 100VDC)

**Test voltage:** 1,000Vrms between contacts (2.54mm spacing)

1,550Vrms between contacts (5.08mm spacing)

1,550Vrms between contacts and body

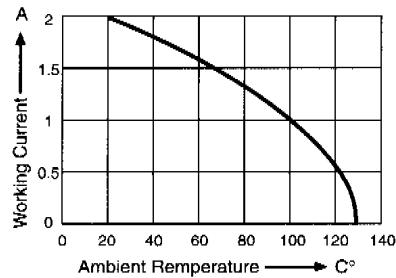
**Operating voltage:** 250V AC

• Specifications are subject to change without prior notice.

• All dimensions are in mm (milli meter)

#### Agency Approval

• U/L File E149341,Electric rating:250V, 2A



## Westfield Distribution Ltd

(E&OE)

TEL: +44(0)1488 685183

E-mail: [sales@westfielduk.com](mailto:sales@westfielduk.com)

FAX: +44(0)1488 685430

Disclaimer – Due to technical progress, all designs, specifications, data sheets and components are subject to change without notice. All product information contained in this catalogue / data sheet is for information only – NOT SPECIFICATION.

Please call / fax / e-mail for samples and full engineering drawings. Certificates of conformance issued if required. .