

# 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 versatily 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)

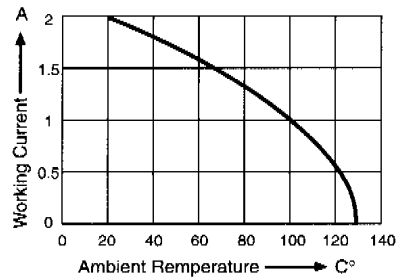
**Contacts:** Female copper alloy, male brass

**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:** ≤20mΩ

(testing current 100mA) ≤40mΩ after 400 mating cycles

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

**Insulation resistance:** ≥10<sup>12</sup>Ω (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

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*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.*

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