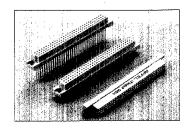
APFEL

DIN 41612 EUROCARD CONNECTORS

Vertical Female Type C Compliant Press-Fit Connectors

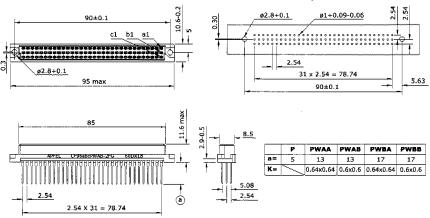


Option:

- Coded connectors
- Variations
- Please refer to page 33 for complete part number coding.
- Other variations, please consult factory.

Dimensions

Recommended P.C.B. layout



Ordering Information

Number of contacts	Rows/Positions with Contact	Class3			Class2			
		5.0mm	13mm Wrap post	17mm Wrap post	5.0mm	13mm	17mm	Pitch
96	a+b+c	CF96abc P	CF96abc PWAA	CF96abc PWBA	CF96abc P-2	CF96abc PWAA-2	CF96abc PWBA-2	2.54mm
			CF96abc PWAB	CF96abc PWBB		CF96abc PWAB-2	CF96abc PWBB-2	
64	a+c	CF64ac P	CF64ac PWAA	CF64ac PWBA	CF64ac P-2	CF64ac PWAA-2	CF64ac PWBA-2	
			CF64ac PWAB	CF64ac PWBB		CF64ac PWAB-2	CF64ac PWBB-2	
32	a+c	CF32ac P	CF32ac PWAA	CF32ac PWBA	CF32ac P-2	CF32ac PWAA-2	CF32ac PWBA-2	
	All even no.		CF32ac PWAB	CF32ac PWBB		CF32ac PWAB-2	CF32ac PWBB-2	5.08mm
48	a+b+c	CF48abc P	CF48abc PWAA	CF48abc PWBA	CF48abc P-2	CF48abc PWAA-2	CF648bc PWBA-2	half-loade
	All even no.		CF48abc PWAB	CF48abc PWBB		CF48abc PWAB-2	CF48abc PWBB-2	

Remarks:

P—Straight press-fit 5.0mm tail length PWAB, PWAA—Straight press-fit 13mm tail length PWBB, PWBA—Straight press-fit 17mm tail length K—Cross section of wrap post (Thickness x Width)

Dimensions shown are for reference purpose only. All dimensions are in millimeters unless otherwise specified.

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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 conntacts 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 mismating. This connectors are versatilely 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)

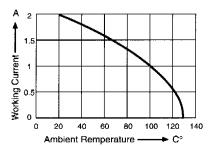
Termination area: TIN-plated or gold-plated for long wrap post

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° \(\omega\$ (between adjacent cotacts at 100VDC)

Test voltage: 1,000Vms 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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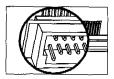
DIN 41612 EUROCARD CONNECTORS

OPTIONS:



EXTENDED MALE CONNECTORS -EARLY MAKE/LATE BREAK

APFEL provides the early make /late break extended male contacts connectors. Before entering order, please advise the positions of extended male contacts of Row a, Row b, Row c and request for correct P/N coding for this variation. Please refer to page 33 for complete part number coding. E.G. CM96abc R-X1(contact positions, a1.b1.c1.a32.b32.c32, with extended (onger contact.)





CONNECTORS WITH PRE-INSTALLED SNAP-IN MOUNTING CLIPS

The mounting clips are designed for use with 1.6mm (0.062")P.C.B. thickness. The material of mounting clips is copper alloy and it is Tin plated.

All solder connectors can be ordered with this feature.
Please refer to page 33 for the complete part number coding.
E.G. CM 64ac R-MC1, CF64ac T-MC2.





WITHOUT LOSS OF CONTACTS CODING SYSTEM

APPEL provides coded connectors for type B.C.Q.R.M.

- The coded connectors are with following advantages
- -Without loss of contact
- —No need to break off the plastic housing, no tools are required.
- —Manually keying, keying can be changed and corrected easily.

E.G. CM64ac R-C



KEYING COMB SET

Each comb set includes 12keys, please order separately. Ordering part number for this plastic comb set is CS12



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DIN 41612 EUROCARD CONNECTORS

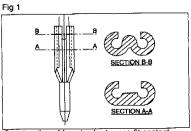
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PRESS-FIT TERMINATION CONNECTORS

APFEL provides the unique patented compliant twin-eye of the needle press-in terminations. It owns the following advantages:

- -Tapered entry
- -Gas tight and larger contact area with the wall of the plated through hole.
- -Conform to the hole variance.

PATENTED CONSTRUCTION



Construction of female short press-fit contact 5mm tail length

Fig 2

Construction of long post (13mm, 17mm) male & female connectors, male press-fit 5mm tail length

Diameter of P.C.B plated through hole:

P.C. board thickness:

Recommended P.C. board holes:

Copper plating:

Tin plating:

Push-in force per pin for plated through hole:

Push-out force per pin for plated through hole:

ø=0.94-1.09mm(0.037-043inch)

≥1.6mm(0.062inch)

hole 1.15%mm(0.0453%%inch)

25-50µm(0.001 inch min.)

5-15µm(0.002 inch min.)

max 8kg/pin (17.5 lbs/pin) min. 3.5kg/pin(7.5lbs/pin)

Fig 3





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PRESS-FIT TOOLING

APFEL

DIN 41612 EUROCARD CONNECTORS

HAND-ACTUATED PRESS-FIT EQUIPMENT THE MOST EASY WAY TO PRESS IN PRESS-FIT CONNECTOR

1. Hand bench press

Working stroke:

approx. 25mm

Press force:

approx. 15KN 10mm

Hole ø in the RAM: Weight:

approx. 30kg

Adjustable distance for stroke: approx. 25mm

2. Guide frame

adjustable guide for P.C.board

max: 330mm X 600mm (min P.C.B. width 100mm)

Part No. for item 1, and item 2, in one set is HPE01

3. Mounting tool P/N: MT01

This tool is to be fastened to the 10mm RAM of hand bench press.

4. Alignment tool P/N: AT01

This tool is to make alignment for mounting tool and bottom tool.

5. Female top tool P/N: FTT01

This tool is to be mounted with mounting tool for press-in female connectors.

6. Male top tool

For RM type, P/N: TL-03

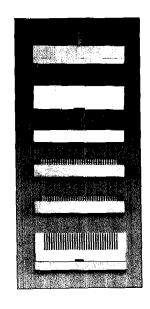
For QM type, P/N:TL-02

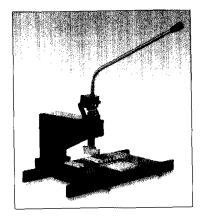
For 1/2 RM type, P/N: TS-03

For 1/2 QM type, P/N: TS-02

7. Bottom tool P/N: BT-01

This tool is to be mounted on the base of guide frame.





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ΔPFEL **DIN 41612 EUROCARD CONNECTORS How to Order** C M 96 abc R -2 -X -MCI -C -S PayT B, HB, C, HC, Q HQ, R HR, M for plastic Special modification housing (consult factory, omit for standard) M-Male F-Female Connector with coding strip Omit for standard non-coded -c for coded connector Number of contacts 02 to 120 Connector with pre-installed snap-in Rows loaded with mounting clips, omit for without boardlock contacts connector a,b,c,ab,ac,bc,abc -MC1for right angle mounting ears With snap in clips —MC2 for straight mounting ears. With snap-in clips Termination T-Straight solder T2.5-Straight solder with tail length 2.5mm R-Right angled solder Male connectors with early make/late break P-Straight press-fit tail length 5mm contacts Long post version Omit: For standard connector (for wire wrap and other interconnection purpose) -E.G.X1, a1.b1.c1.a32.b32.c32. PWAB-Straight press-fit, post thickness 0.6mm, with extended longer male pin in tail length 13mm contact area PWAA-Straight press-fit post thickness 0.64mm, Other variations-please consult tail length 13mm Factory for part No. coding PWBB-Straight press-fit post thickness 0.6mm, tail length 17mm PWBA-Straight press-fit post thickness 0.64mm, tail length 17mm Performance level PW5-Tail length 5mm Omit for class 3 PW7-Tail length 7.4mm -FG for flash gold on 13/17mm wrap post Wrap post without press-fit feature WAB-Post thickness 0.6mm, tall length 13mm -2FG flash gold on 13/17mm wrap post WAA-Post thickness 0.64mm, tail length 13mm -2G gold-plated on wrap post WBB-Post thickness 0.6mm, tail length 17mm or other plating requirement, please consult factory WBA-Post thickness 0.64mm, tail length 17mm

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W5—Tail length 5mm W7—Tail length 7.4mm

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ENQUIRY FORM

Faxback to Westfield on: +44 (0) 1488 685430 Or telephone +44 (0) 1488 685183

SAMPLES / QUOTATION / TECHNICAL ASSISTANCE ON THE FOLLOWING:

Your Part No	Competition Part No	Apfel/Westfield Part No	Qty per mth/yr
•••••	•••••	•••••	••••••
Your Name:		•••••	
Company:			
Address:			•••••
			•••••
Tel:	Fax:		•••••
E-Mail:	•••••	•••••	•••••
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