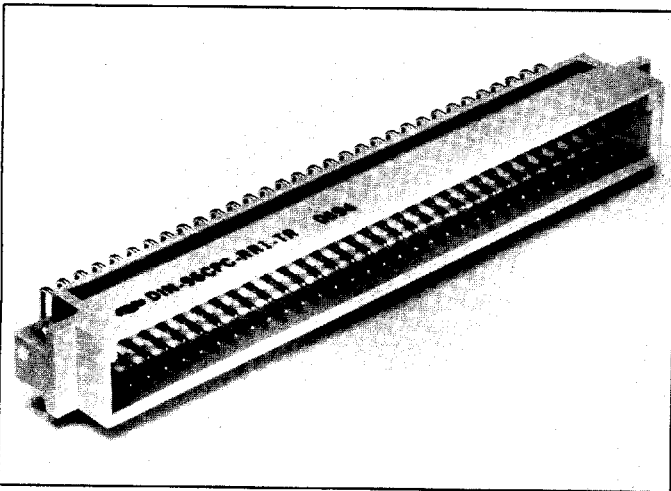


# DIN CONNECTORS



## Standard C-Form DIN Solder-To-Board Plug Connectors

DIN-CP Series



- 96 position connector used on VME, VXI, Multi-Bus II daughter cards
- High temp SMT compatible insulator
- EMLB grounding contacts allow "hot board" replacement (see page 293)
- Retent clip locks connector to PCB during wave solder
- New! 120 position connector used for Apple Macintosh add-on cards
- Mates with C-Form, R-Form or IDC ribbon cable Sockets

DIN/HDC BACKPLANE

### How to Order CH- and C-Form Plug

**DIN — 96 CP C — SR1 — TR**

Number of Contacts: \_\_\_\_\_  
32, 48, 64, 96, 120, 150

\_\_\_\_\_ Plating Code: Specify TR

Pin Arrangement: \_\_\_\_\_  
A = Row A only loaded  
B = Rows A, C loaded  
C = Rows A, B, C loaded

Termination Style/Tail Length:  
SR1 = Solder, Right Angle/.114" (2.90)  
SR2 = Solder, Right Angle/.180" (4.57)  
RR1 = Solder, Right Angle/.114" (2.90) with retent clips  
RR2 = Solder, Right Angle/.180" (4.57) with retent clips  
RR1L = Solder, Right Angle/.114" (2.90) with retent clips  
RR2L = Solder, Right Angle/.180" (4.57) with retent clips  
(See "Retent Clip Style" detail next page)

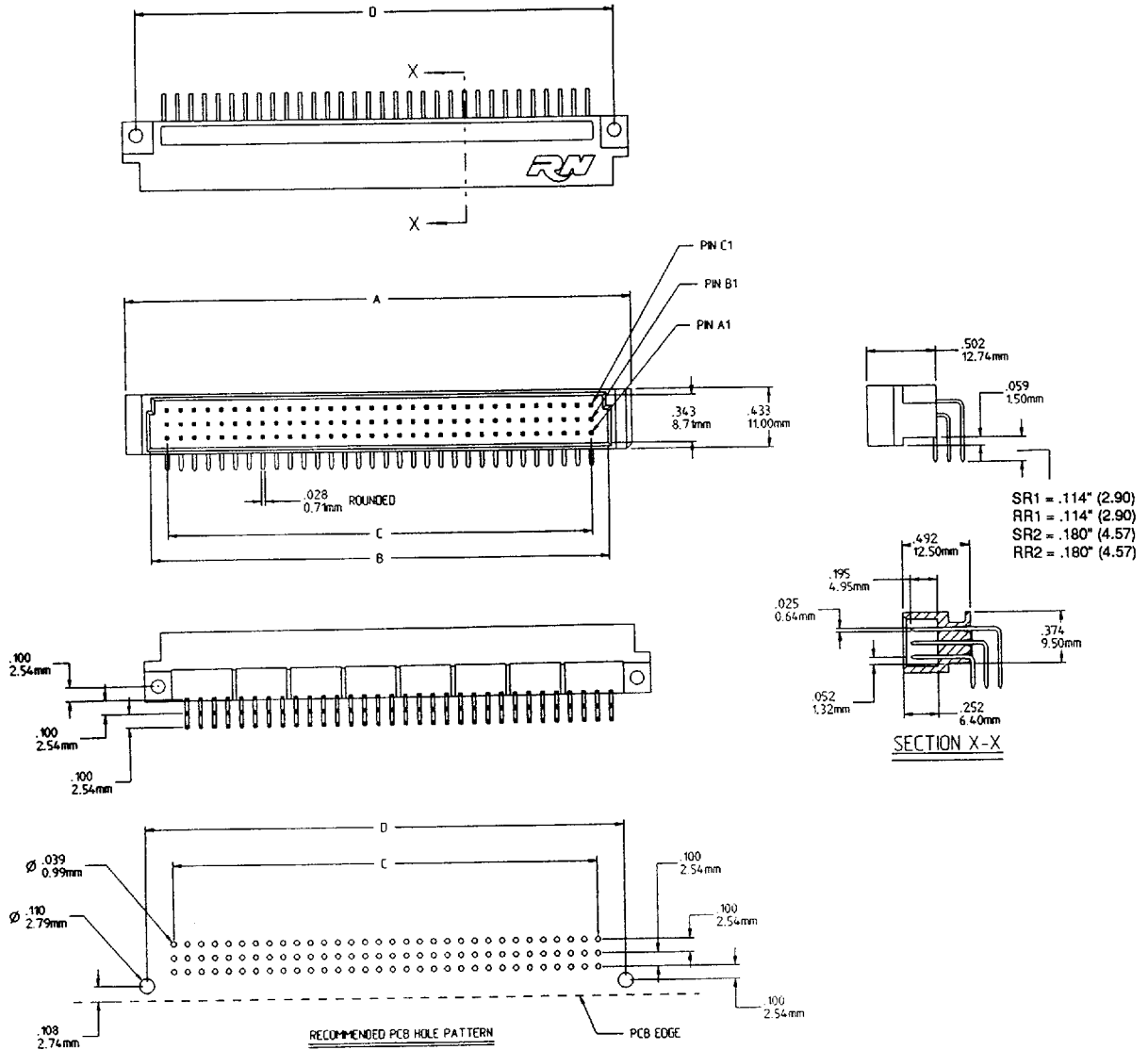
#### Pin Arrangement

| Number of Contacts | Part Number**       | Rows Filled   |
|--------------------|---------------------|---|
| 32                 | DIN-32CPB-XXX-TR    | A, C (48 Position housing)                                    |
| 48                 | DIN-48CPC-XXX-TR    | A, B, C   |
| 64                 | DIN-64CPB-XXX-TR    | A, C (96 Position housing)                                    |
| 64                 | DIN-64CPB-SR14A-TR* | A, C (96 Position housing)<br>Pins Extended A1, A32, C1, C32* |
| 96                 | DIN-96CPC-XXX-TR    | A, B, C   |
| 96                 | DIN-96CPC-SR14A-TR* | A, B, C<br>Pins Extended A1, A32, C1, C32*                    |
| 96                 | DIN-96CPC-SR12A-TR* | A, B, C<br>Pins Extended A1, A32*                             |
| 120                | DIN-120CPC-XXX-TR   | A, B, C   |
| 150                | DIN-150CPC-XXX-TR   | A, B, C   |

\*Custom EMLB Patterns Available (see page 293)

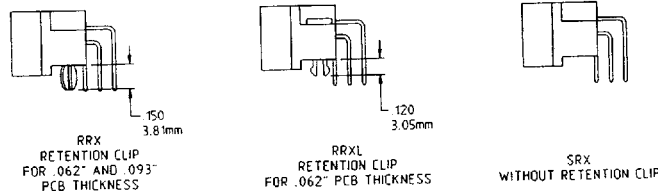
\*\* To order replace XXX with termination style

| DESCRIPTION       | No. of Contacts | A              | B              | C              | D              |
|-------------------|-----------------|----------------|----------------|----------------|----------------|
| DIN-32CPA-XXX-XX  | 32              | 3.700 (93.98)  | 3.354 (85.19)  | 3.100 (78.74)  | 3.500 (88.90)  |
| DIN-32CPB-XXX-XX  | 32              | 2.100 (53.34)  | 1.754 (44.55)  | 1.500 (38.10)  | 1.900 (48.26)  |
| DIN-48CPC-XXX-XX  | 48              | 2.100 (53.34)  | 1.754 (44.55)  | 1.500 (38.10)  | 1.900 (48.26)  |
| DIN-64CPB-XXX-XX  | 64              | 3.700 (93.98)  | 3.354 (85.19)  | 3.100 (78.74)  | 3.500 (88.90)  |
| DIN-96CPC-XXX-XX  | 96              | 3.700 (93.98)  | 3.354 (85.19)  | 3.100 (78.74)  | 3.500 (88.90)  |
| DIN-120CPC-XXX-XX | 120             | 4.500 (114.30) | 4.154 (105.51) | 3.900 (99.06)  | 4.300 (109.22) |
| DIN-150CPC-XXX-XX | 150             | 5.500 (139.70) | 5.154 (130.91) | 4.900 (124.46) | 5.300 (134.62) |



DIN/HDC  
BACKPLANE

### RETENTION CLIP STYLE



## Mechanical Performance

**Insertion Force:** 2.5 oz/contact maximum average  
**Withdrawal Force:** .50 oz/contact minimum  
**Temperature Range:** -65°C to + 105°C  
**Flammability Rating:** UL 94V-0  
**DIN 41612 Quality Class:** Class II, 400 mating cycles

## Electrical Performance

|   |  |
|---|--|
| <b>Contact Resistance:</b>              | 20 Milliohms maximum                       |
| <b>Insulation Resistance:</b>           | 1000 Megohms                               |
| <b>Dielectric Withstanding Voltage:</b> | 1000 Volts AC RMS                          |
| <b>Current Rating:</b>                  | 1.0 Ampere at 100°C<br>4.0 Amperes at 20°C |

## Agency Approvals:



#46898



#E73746

## Materials

**Body:** High Temp, Grey Thermoplastic (UL 94V-0)  
**Contact: Plugs** - Copper Alloy    **Sockets** - Phosphor Bronze  
**Plating Options:**

**TR =** 10  $\mu$ inch ROBEX® [7  $\mu$ inch (.178  $\mu$ m) minimum Palladium Nickel with 3  $\mu$ inch (.076  $\mu$ m) minimum Gold flash] on contact area.  
100  $\mu$ inch (2.54  $\mu$ m) Tin/Lead on terminal area

**RR =** 10  $\mu$ inch (.254  $\mu$ m) ROBEX® [7  $\mu$ inch (.178  $\mu$ m) minimum Palladium Nickel with 3  $\mu$ inch (.076  $\mu$ m) minimum Gold flash] on contact and terminal areas.  
100  $\mu$ inch (2.54  $\mu$ m) minimum Tin/Lead on FLEXPRESS® area

All options include an Underplate of 50  $\mu$ inch (1.27  $\mu$ m) minimum Nickel.  
RR Plating is available on FLEXPRESS® (PW1 and PW2) contacts only.

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