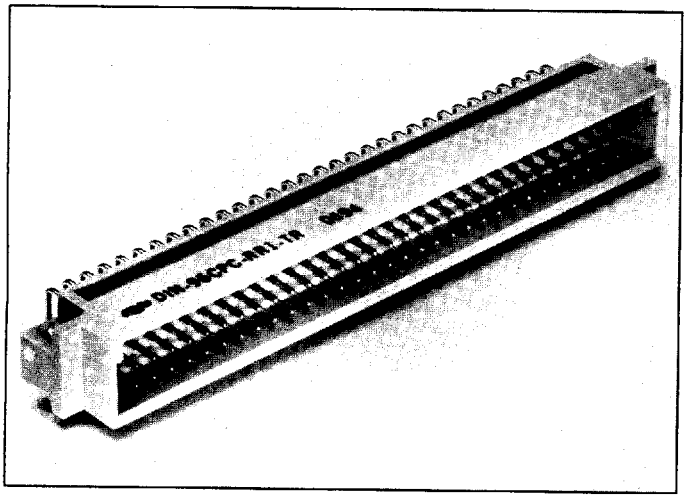
# Standard C-Form DIN Solder-To-Board Plug Connectors

## *DIN-CP Series*



- **96 position connector used on VME, VXI, Multi-Bus II daughter cards**
- **High temp SMT compatible insulator**
- **EMLB groundng 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**



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

**DIN — 96 CP C — SR1 — TR**

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

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)

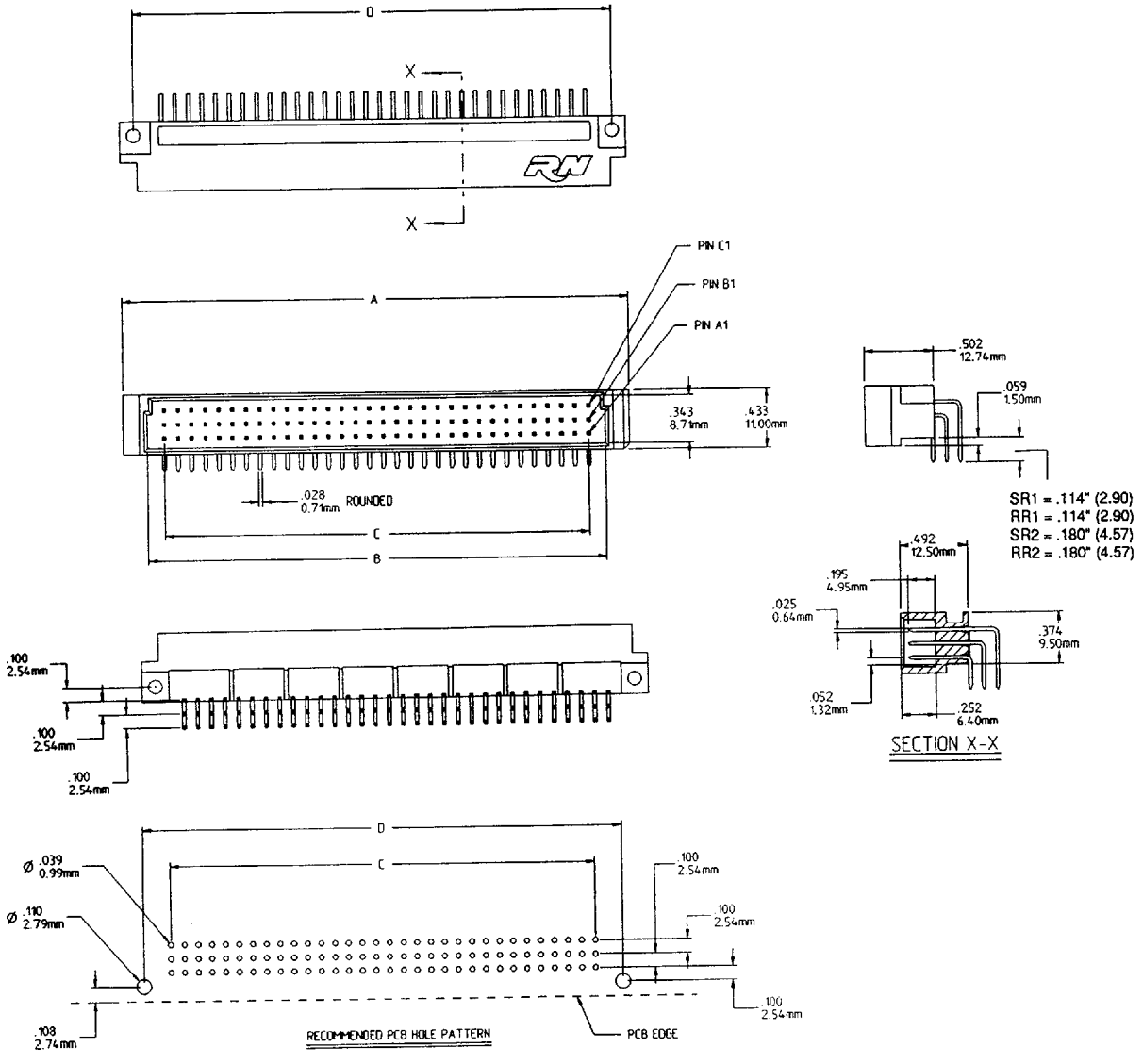
Plating Code: Specify TR

| 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) Pins Extended A1, A32, C1, C32* |
| 96 | DIN-96CPC-XXX-TR | A, B, C |
| 96 | DIN-96CPC-SR14A-TR* | A, B, C Pins Extended A1, A32, C1, C32* |
| 96 | DIN-96CPC-SR12A-TR* | A, B, C Pins Extended A1, A32* |
| 120 | DIN-120CPC-XXX-TR | A, B, C |
| 150 | DIN-150CPC-XXX-TR | A, B, C |

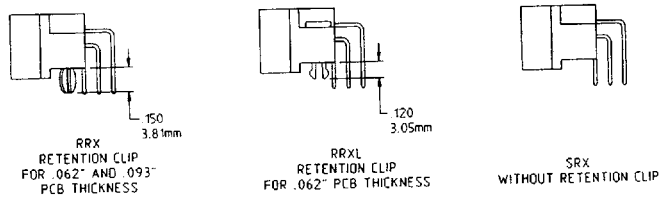
**Custom EMLB Patterns Available (see page 293)*

*** 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)* |




## RETENTION CLIP STYLE




DIN/HDC BACKPLANE

## 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

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

## Agency Approvals:

CSA #46898 UL #E73746

## Materials

**Body:** High Temp, Grey Thermoplastic (UL 94V-0)

**Contact: Plugs** - Copper Alloy **Sockets** - Phosphor Bronze

**Plating Options:**

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

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

All options include an Underplate of 50 µinch *(1.27 µm)* minimum Nickel.
RR Plating is available on FLEXPRESS® (PW1 and PW2) contacts only.

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