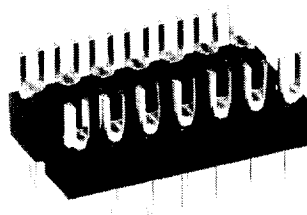


## Plug Adapter Assemblies

### 600 Series



614-CG1

#### FEATURES:

The 600 Series is a high quality machined pin molded adaptor which is used to assemble hybrid and special network circuits. The .018" (0,46) diameter precision pin allows the adaptor to be plugged into socket or wire wrappable panels repeatedly.

- Precision machined pins
- Used for interposing discrete components
- Terminals are the same dimension as IC board patterns
- Option of round, solder pocket or slotted pin styles
- Thermoplastic polyester insulators
- Large variety of styles:
  - 8, 14, 16, 20 pins - .300" (7,62) between rows
  - 22 pins - .400" (10,16) between rows
  - 14, 16, 24, 28, 32, 36, and 40 pins - .600" (15,24) between rows
  - 14 & 16 pins - .800" (20,32) between rows

#### MATERIAL SPECIFICATIONS:

Insulator .....Thermoplastic polyester, UL rated 94V-0  
 Pins .....Phosphor bronze, gold or tin/lead plated

**Note:** Before ordering, see Cross Reference in Section 15 for equivalent Tyco Electronics Part Number.

#### PERFORMANCE SPECIFICATIONS:

##### MECHANICAL

Vibration .....Tested to a frequency range of 10 to 2,000 Hz and returned to 10Hz in three perpendicular planes at a double amplitude of .06" (1,52) or 20 G's, whichever was less per MIL-STD-202, Method 204

Mechanical Shock .....Will meet the requirements of MIL-STD-202, Method 213 when subjected to a shock test at 150 G's acceleration

##### ELECTRICAL

Current Rating .....5 Amps when tested with a 30-gauge wire attached. Terminal will have a maximum 30°C temperature rise above ambient

Capacitance .....At a test frequency of 1 KHz, adjacent and/or terminal all at guard potential

Adjacent terminal:

AG and CG solder tail .....36pF

BG (solder pocket) .....42pF

Opposite Terminal:

AG and CG solder tail .....025pF

BG (solder pocket) .....034pF

Dielectric Withstanding ..

Voltage .....1,000 VRMS @ 30 inches mercury, .500 VRMS when tested @ 0.9 inches mercury, tested per MIL-STD-202, Method 301

Insulation Resistance .....1 x 10<sup>12</sup> Ohms, tested to MIL-STD 202, Method 302, tested @ 500 Volts

##### ENVIRONMENTAL

Thermal Shock .....No visual damage when tested in accordance with MIL-STD-202, Method 107, test condition F for 5 consecutive cycles of -65°C to +150°C

Operating

Temperatures .....-65°C to +125°C

Salt Spray .....No visual evidence of corrosion on Gold terminals when tested per MIL-STD-202, Method 101 Test condition B for 48 hours and a 5% salt solution

## Plug Adapter Assemblies

### 600 Series

#### STANDARD CONFIGURATIONS

| Number of Pins | Pin Style     | Gold Part Number | Tin Part Number | "A" Max.         | "B" Typ.         | "C" *           | "D <sub>1</sub> " ** | "D <sub>2</sub> " ** | "D <sub>3</sub> " ** | Figure |
|----------------|---------------|------------------|-----------------|------------------|------------------|-----------------|----------------------|----------------------|----------------------|--------|
| 8              | Round         | 608-AG1          | 608-AG1T        | .400<br>(10.16)  | .300<br>(7.62)   | .300<br>(7.62)  | —                    | —                    | —                    | 1A     |
|                | Solder Pocket | 608-BG1          | 608-BG1T        |                  |                  |                 |                      |                      |                      | 1B     |
|                | Slotted       | 608-CG1          | 608-CG1T        |                  |                  |                 |                      |                      |                      | 1C     |
| 14             | Round         | 614-AG1          | 614-AG1T        | .700<br>(17.78)  | .600<br>(15.24)  | .300<br>(7.62)  | —                    | —                    | —                    | 1A     |
|                | Solder Pocket | 614-BG1          | 614-BG1T        |                  |                  |                 |                      |                      |                      | 1B     |
|                | Slotted       | 614-CG1          | 614-CG1T        |                  |                  |                 |                      |                      |                      | 1C     |
| 14             | Round         | 614-AG3          | 614-AG3T        | .700<br>(17.78)  | .600<br>(15.24)  | .600<br>(15.24) | .400<br>(10.16)      | —                    | —                    | 2A     |
|                | Solder Pocket | 614-BG3          | 614-BG3T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 614-CG3          | 614-CG3T        |                  |                  |                 |                      |                      |                      | 2C     |
| 14             | Round         | 614-AG2          | 614-AG2T        | .750<br>(19.05)  | .600<br>(15.24)  | .800<br>(20.32) | —                    | —                    | —                    | 3A     |
|                | Solder Pocket | 614-BG2          | 614-BG2T        |                  |                  |                 |                      |                      |                      | 3B     |
|                | Slotted       | 614-CG2          | 614-CG2T        |                  |                  |                 |                      |                      |                      | 3C     |
| 16             | Round         | 616-AG1          | 616-AG1T        | .800<br>(20.32)  | .700<br>(17.78)  | .300<br>(7.62)  | —                    | —                    | —                    | 1A     |
|                | Solder Pocket | 616-BG1          | 616-BG1T        |                  |                  |                 |                      |                      |                      | 1B     |
|                | Slotted       | 616-CG1          | 616-CG1T        |                  |                  |                 |                      |                      |                      | 1C     |
| 16             | Round         | 616-AG3          | 616-AG3T        | .800<br>(20.32)  | .700<br>(17.78)  | .600<br>(15.24) | .400<br>(10.16)      | —                    | —                    | 2A     |
|                | Solder Pocket | 616-BG3          | 616-BG3T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 616-CG3          | 616-CG3T        |                  |                  |                 |                      |                      |                      | 2C     |
| 16             | Round         | 616-AG2          | 616-AG2T        | .850<br>(21.59)  | .700<br>(17.78)  | .800<br>(20.32) | —                    | —                    | —                    | 3A     |
|                | Solder Pocket | 616-BG2          | 616-BG2T        |                  |                  |                 |                      |                      |                      | 3B     |
|                | Slotted       | 616-CG2          | 616-CG2T        |                  |                  |                 |                      |                      |                      | 3C     |
| 18             | Round         | 618-AG1          | 618-AG1T        | .900<br>(22.86)  | .800<br>(20.32)  | .300<br>(7.62)  | —                    | —                    | —                    | 1A     |
|                | Solder Pocket | 618-BG1          | 618-BG1T        |                  |                  |                 |                      |                      |                      | 1B     |
|                | Slotted       | 618-CG1          | 618-CG1T        |                  |                  |                 |                      |                      |                      | 1C     |
| 20             | Round         | 620-AG1          | 620-AG1T        | 1.000<br>(25.90) | .900<br>(22.86)  | .300<br>(7.62)  | —                    | —                    | —                    | 1A     |
|                | Solder Pocket | 620-BG1          | 620-BG1T        |                  |                  |                 |                      |                      |                      | 1B     |
|                | Slotted       | 620-CG1          | 620-CG1T        |                  |                  |                 |                      |                      |                      | 1C     |
| 22             | Round         | 622-AG1          | 622-AG1T        | 1.150<br>(29.21) | 1.000<br>(25.90) | .400<br>(10.16) | —                    | —                    | —                    | 1A     |
|                | Solder Pocket | 622-BG1          | 622-BG1T        |                  |                  |                 |                      |                      |                      | 1B     |
|                | Slotted       | 622-CG1          | 622-CG1T        |                  |                  |                 |                      |                      |                      | 1C     |
| 24             | Round         | 624-AG1          | 624-AG1T        | 1.200<br>(30.98) | 1.100<br>(27.94) | .600<br>(15.24) | .900<br>(22.86)      | .400<br>(10.16)      | —                    | 2A     |
|                | Solder Pocket | 624-BG1          | 624-BG1T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 624-CG1          | 624-CG1T        |                  |                  |                 |                      |                      |                      | 2C     |
| 28             | Round         | 628-AG2          | 628-AG2T        | 1.400<br>(35.56) | 1.300<br>(33.02) | .600<br>(15.24) | .900<br>(22.86)      | .400<br>(10.16)      | —                    | 2A     |
|                | Solder Pocket | 628-BG2          | 628-BG2T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 628-CG2          | 628-CG2T        |                  |                  |                 |                      |                      |                      | 2C     |
| 32             | Round         | 632-AG2          | 632-AG2T        | 1.600<br>(40.64) | 1.500<br>(38.10) | .600<br>(15.24) | .900<br>(22.86)      | .400<br>(10.16)      | —                    | 2A     |
|                | Solder Pocket | 632-BG2          | 632-BG2T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 632-CG2          | 632-CG2T        |                  |                  |                 |                      |                      |                      | 2C     |
| 36             | Round         | 636-AG1          | 636-AG1T        | 1.800<br>(45.72) | 1.700<br>(43.18) | .600<br>(15.24) | 1.500<br>(38.10)     | .900<br>(22.86)      | .400<br>(10.16)      | 2A     |
|                | Solder Pocket | 636-BG1          | 636-BG1T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 636-CG1          | 636-CG1T        |                  |                  |                 |                      |                      |                      | 2C     |
| 40             | Round         | 640-AG1          | 640-AG1T        | 2.000<br>(50.80) | 1.900<br>(48.26) | .600<br>(15.24) | 1.500<br>(38.10)     | .900<br>(22.86)      | .400<br>(10.16)      | 2A     |
|                | Solder Pocket | 640-BG1          | 640-BG1T        |                  |                  |                 |                      |                      |                      | 2B     |
|                | Slotted       | 640-CG1          | 640-CG1T        |                  |                  |                 |                      |                      |                      | 2C     |

\* Dimension C  $\pm .010$  (0.25)\*\* Dimension D<sub>1</sub>, D<sub>2</sub>, D<sub>3</sub>  $\pm .005$  (0.13)

Solderless Wrap Styles:

3 Level Solderless Wrap: add "F" to printed circuit Part Number. Ex. 608-AG1TF

**Note:** Before ordering, see Cross Reference in Section 15 for equivalent Tyco Electronics Part Number.



Sockets

## Plug Adapter Assemblies

## 600 Series

## SOLDER STYLE TERMINALS

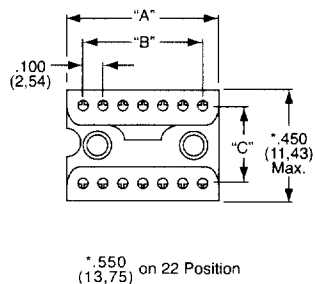


Fig. 1

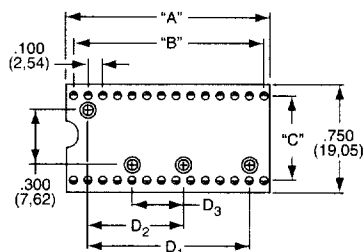


Fig. 2

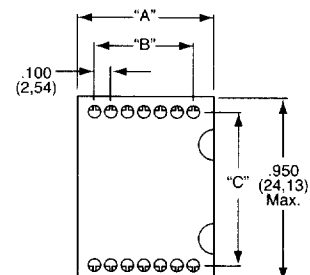
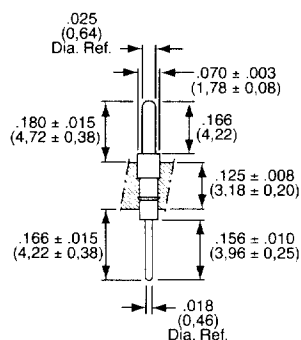
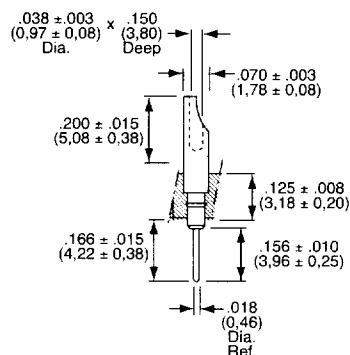
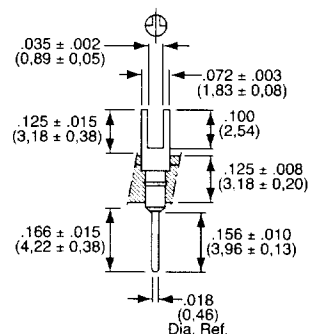


Fig. 3

Figure A  
8128-41P6 (Gold)Figure B  
8128-40P10 (Gold)Figure C  
8128-39P6 (Gold)

**Note:** Before ordering, see Cross Reference in Section 15 for equivalent Tyco Electronics Part Number.