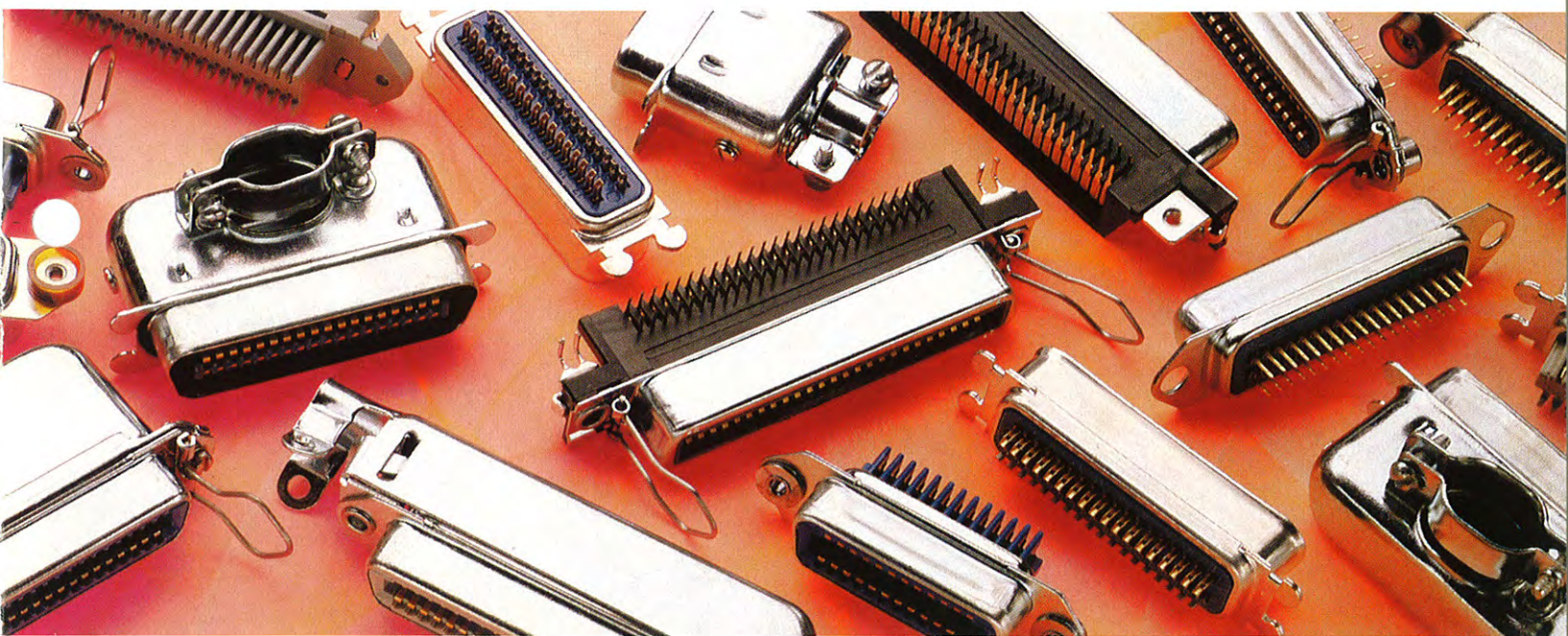


# Amphenol®

**57, 157, 57LE**  
series



**Amphenol miniature-ribbon connectors**

# introduction

Amphenol 57, 157, 57LE miniature-ribbon connectors — a family of connectors proven to meet the demands of today's multi-wire cable termination applications.

57, 157, 57LE miniature-ribbon connectors are ideally suited for use in modems, multi-plexers, computers and peripherals, medical equipment, PBX devices and scientific instrumentation. These connectors are used extensively in the connection of conventional telephone equipment. And they contribute to the reliable, cost-effective termination of cash registers, vending machines and similar equipment.

## interchangeable/intermateable

Mating surfaces of both solder-type 57 series and solderless 157 series connectors are compatible. This provides an intermate/intermount capability allowing you to interconnect new equipment without disturbing or rewiring existing connectors.

## engineered performance

57, 157, 57LE series connectors feature gold plating selectively applied to significant areas. Contacts are designed to mate easily and firmly — virtually eliminating the possibility of bent pins or misalignment. The two wide, flat surfaces making electrical contact are compressed tightly by the flexing action of both members. Contacts are self-cleaning, self-wiping — contact surfaces are kept clear of corrosion and foreign matter, the result being highly reliable electrical continuity and low contact resistance.

## low cost and efficient

With their long life and reliability, Amphenol 57, 157, 57LE miniature-ribbon connectors actually cost less than most other types. Low cost, efficient 57, 157, 57LE series connectors are easily terminated — either in the field, or in-plant. And special accessories available from Amphenol can help bring installed cost even lower. A large variety of connector sizes, configurations and optional features are available to suit the most exacting requirements.

The following pages detail our standard 57, 157, 57LE miniature-ribbon connectors, compatible accessories and termination tooling.

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# general configuration — 57 series solder termination

## description

Micro-Ribbon connectors offer a fast, economical and distinctively different method of achieving electrical interconnection.

The heart of the connector is the ribbon contact, selectively plated gold over nickel on a copper alloy base.

With contacts designed to mate easily and positively, the 57 series Micro-Ribbon connector delivers electrically and mechanically sound interconnections time after time.

Exceptionally versatile, 57 series Micro-Ribbon connectors are available in rack and panel, cable to panel, cable to cable and printed circuit types.

## general specifications

|                             |                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------|
| Current Capacity .....      | 5 amps per contact                                                                       |
| Voltage Rating .....        | 700 volts D.C. at sea level<br>200 volts D.C. at 70,000 ft.                              |
| Operating Temperature ..... | -55°C to +105°C<br>-67°F to +221°F                                                       |
| Wire Sizes .....            | Solid: 22-gauge maximum<br>Stranded: 24-gauge maximum                                    |
| Contacts .....              | Selectively plated 20 microinches gold over 50 microinches nickel on a copper alloy base |
| Dielectric .....            | Diallyl phthalate per MIL-M-14G Type MDG                                                 |
| Shells .....                | Zinc-plated steel with clear chromate coating; trapezoidal shape for polarization.       |

## features

- Copper alloy contacts, selectively plated gold-over-nickel for excellent current-carrying characteristics.
- UL 94 VO rated diallyl phthalate dielectric per MIL-M-14G Type MDG, for operation at up to 700 volts D.C. (sea level) without shorting or flashover. Resists cracking or chipping and has low moisture absorption.
- Float bushings on receptacles allow .020" radial float, for easy mating.
- Zinc-plated steel outer shell, with clear chromate finish, for corrosion resistance.
- Wide, flat mating surfaces, pressed tightly together by flexing action of both contacts, for electrical continuity.
- Positive mating action that wipes contacts clean, removing film or foreign matter, for low contact resistance.
- Solder cup type contact tails (for easy wire attachment) and pin style tails (for printed circuit board attachment) both are available. A high barrier between contact rows also is available.
- A trapezoidal-shape shell that assures correct polarity.

## connector deviations (1,000 piece m.o.q)

| Deviation Number | Deviation Description for 57/157 Series Connectors                                                          |
|------------------|-------------------------------------------------------------------------------------------------------------|
| (398)            | Connector shells and steel hardware nickel plated                                                           |
| (424)            | Contacts fully plated, 30 microinches gold select over 50 microinches nickel.                               |
| (438)            | Gold flashed contacts on mating area, 50 microinches min. nickel underplate.                                |
| (441)            | Tin plated shells                                                                                           |
| (448)            | Contacts selectively plated, 30 microinches min. gold on mating area, 50 microinches min. nickel underplate |
| (450)            | Contacts selectively plated, 50 microinches min. gold on mating area, 50 microinches min. nickel underplate |

NOTE: Not all part numbers are available in all deviations. To verify availability contact the factory directly, or your local manufacturer's representative or distributor. Check with factory for other deviations not listed above.

## connector deviation ordering information

To order a deviation of a catalog miniature-ribbon connector, add one of the listed deviation numbers in parenthesis to the catalog part number. Example: To order 57-10500 with tin plated shells, request 57-10500 (441).

NOTE: Only one deviation number can be applied to a catalog part number at a time.



UL  
Component  
Recognition

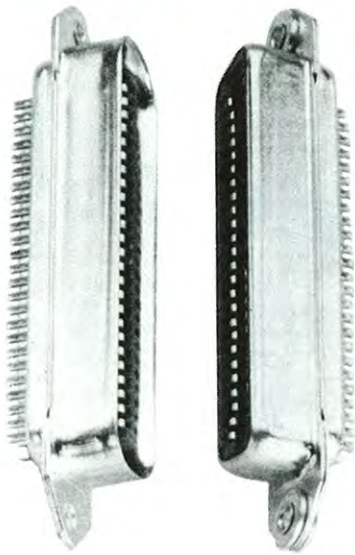


Canadian  
Standards  
Association

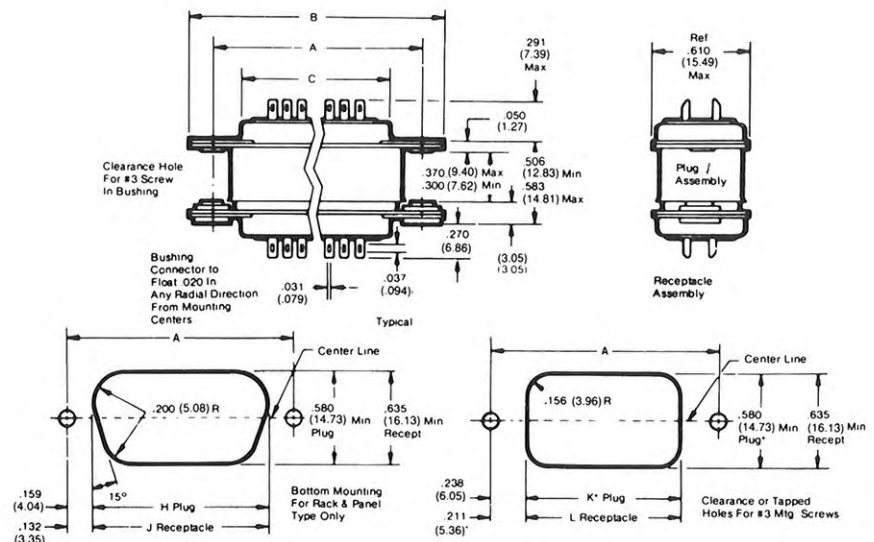
FILE E64911

FILE LR 45516-14

# 57 series rack-and-panel connectors



dimensions



|                 |   | 14 Contacts |       | 24 Contacts |       | 36 Contacts |       | 50 Contacts |       | 64 Contacts |       |
|-----------------|---|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
|                 |   | in.         | mm    | in.         | mm    | in.         | mm    | in.         | mm    | in.         | mm    |
|                 | A | 1.417       | 35.99 | 1.842       | 46.79 | 2.352       | 59.74 | 2.947       | 74.85 | 3.542       | 89.97 |
|                 | B | 1.750       | 44.45 | 2.175       | 55.25 | 2.685       | 68.20 | 3.280       | 83.31 | 3.875       | 98.43 |
|                 | C | .910        | 23.11 | 1.335       | 33.91 | 1.845       | 46.86 | 2.440       | 61.98 | 3.035       | 77.09 |
| Bottom Mounting | H | 1.099       | 27.92 | 1.524       | 38.71 | 2.034       | 51.66 | 2.629       | 66.78 | 3.224       | 81.89 |
|                 | J | 1.153       | 29.29 | 1.578       | 40.08 | 2.088       | 53.04 | 2.683       | 68.15 | 3.278       | 83.26 |
| Top Mounting    | K | .941        | 23.90 | 1.366       | 34.70 | 1.876       | 47.65 | 2.471       | 62.76 | 3.066       | 77.88 |
|                 | L | .995        | 25.27 | 1.420       | 36.07 | 1.930       | 49.02 | 2.525       | 64.14 | 3.120       | 79.25 |

## order information

| Contacts | Plugs:<br>Fix-mounted* | Plugs:<br>Fix-mounted** | Solder CupTails With           |                                          |                        |                                |
|----------|------------------------|-------------------------|--------------------------------|------------------------------------------|------------------------|--------------------------------|
|          |                        |                         | Low Barrier Insert             |                                          | High Barrier Insert    |                                |
|          |                        |                         | Receptacles:<br>Float-mounted* | Receptacles:<br>Less Float<br>Bushings** | Plugs:<br>Fix-mounted* | Receptacles:<br>Float-mounted* |
| 14       | 57-10140               | consult sales office    | 57-20140                       | 57-20140-4                               | N/A                    | N/A                            |
| 24       | 57-10240               | 57-10240-4***           | 57-20240                       | 57-20240-2***                            | N/A                    | N/A                            |
| 36       | 57-10360               | 57-10360-22             | 57-20360                       | 57-20360-3                               | 57-10360-14            | 57-20360-10                    |
| 50       | 57-10500               | 57-10500-48             | 57-20500                       | 57-20500-15                              | 57-10500-6             | 57-20500-6                     |
| 64       | —                      | —                       | —                              | —                                        | 57-10640               | 57-20640                       |

\*.103" Mounting Hole (accepts #3 screw — not included)

\*\* .185" Mounting Hole (accepts #8 screw — not included)

\*\*\*IEEE Type

## IEEE mounting hardware

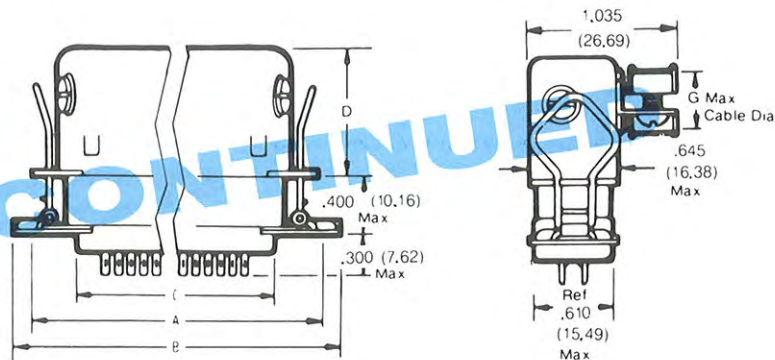
**408-153819** Inside panel mount hardware includes two each studs, nuts, washers.

**408-153818** Outside panel mount hardware includes two each studs, nuts, washers.

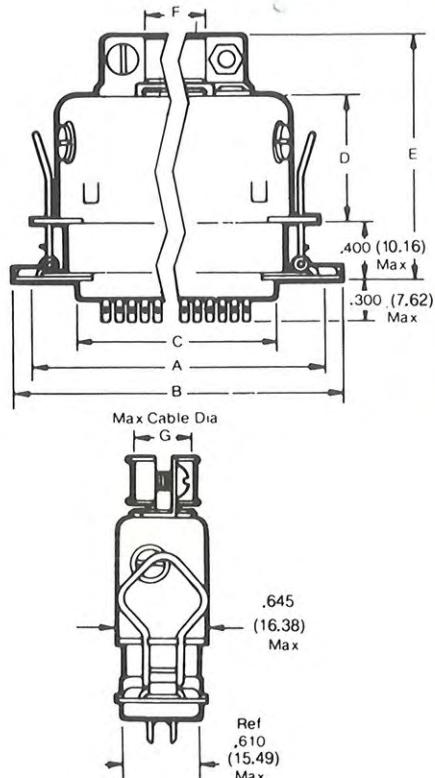
**PLEASE NOTE:** Amphenol rack and panel receptacle connectors have float bushings which allow .020" (6.008mm) radial float. Plugs and receptacles have solder cup tails and accept 22-gauge solid or 24-gauge (maximum) stranded wire. U.L. recognized.

# 57 series cable-to-panel connectors

## side cable entry type



## top cable entry type



## dimensions

|   | 14 Contacts |        | 24 Contacts |        | 36 Contacts |        | 50 Contacts |        |
|---|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
|   | In.         | mm     | In.         | mm     | In.         | mm     | In.         | mm     |
| A | 1.417       | 35.992 | 1.842       | 46.787 | 2.352       | 59.741 | 2.947       | 74.854 |
| B | 1.770       | 44.958 | 2.195       | 55.753 | 2.705       | 68.707 | 3.300       | 83.820 |
| C | .910        | 23.114 | 1.335       | 33.909 | 1.845       | 46.863 | 2.440       | 61.976 |
| D | .850        | 21.59  | .830        | 21.08  | .910        | 23.11  | 1.000       | 25.4   |
| E | 1.665       | 42.29  | 1.645       | 41.78  | 1.725       | 43.82  | 1.815       | 46.10  |
| F | .348        | 8.84   | .473        | 12.01  | .648        | 16.46  | .772        | 19.61  |
| G | .348        | 8.84   | .473        | 12.01  | .500        | 12.7   | .500        | 12.7   |

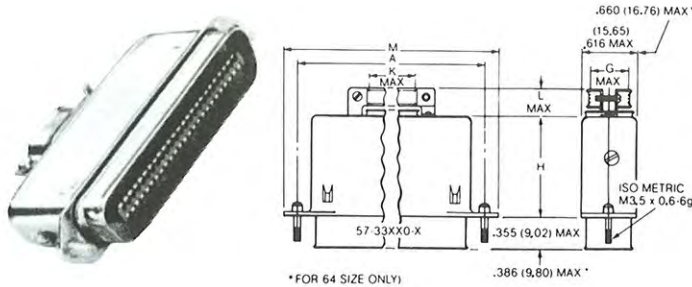
NOTE: All dimensions are reference.

## order information

| Contacts | Plugs: Top Cable Entry<br>Part Number | Plugs: Side Cable Entry<br>Part Number | Receptacle Mating Connection<br>With Spring Latches<br>Part Number |
|----------|---------------------------------------|----------------------------------------|--------------------------------------------------------------------|
| 14       | 57-30140                              | 57-50140                               | 57-40140                                                           |
| 24       | 57-30240                              | 57-50240                               | 57-40240                                                           |
| 36       | 57-30360 (screwtype hood)             | 57-50360                               | 57-40360                                                           |
| 36       | 57-30360-18 (snap on hood)            | —                                      | —                                                                  |
| 36       | —                                     | —                                      | 57-40360-9 (high barrier)                                          |
| 50       | 57-30500                              | 57-50500                               | 57-40500                                                           |
| 50       | 57-30500-3 (high barrier)             | —                                      | 57-40500-4 (high barrier)                                          |

# 57 series cable-to-panel connectors

## top cable entry type for screw lock



## order information

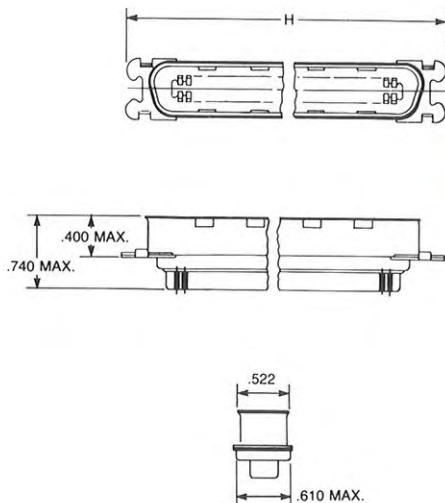
| Contacts | Plug: Top Cable Entry With Zinc Plated Shells For Screw Locking Part Number | Plug: Top Cable Entry With Nickel Plated Shells For Screw Locking Part Number |
|----------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 14       | 57-33140-1                                                                  | 57-33140-2                                                                    |
| 24       | 57-33240-1                                                                  | 57-33240-2                                                                    |
| 36       | 57-33360-1                                                                  | 57-33360-2                                                                    |
| 50       | 57-33500-1                                                                  | 57-33500-2                                                                    |

NOTE: Top cable entry plugs for screw locking can be mated with rack and panel type connectors utilizing IEEE mounting hardware.

## dimensions

| Size | 14    |       | 24    |       | 36    |       | 50    |       |
|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dim. | Inch  | mm    | Inch  | mm    | Inch  | mm    | Inch  | mm    |
| A    | 1.417 | 35.99 | 1.842 | 46.79 | 2.352 | 59.74 | 2.947 | 74.85 |
| G    | .442  | 10.72 | .468  | 11.89 | .468  | 11.89 | .468  | 11.89 |
| H    | .843  | 21.41 | .825  | 20.96 | .905  | 22.99 | .995  | 25.27 |
| K    | .348  | 8.84  | .473  | 12.01 | .639  | 16.23 | .766  | 19.46 |
| L    | .405  | 10.29 | .400  | 10.16 | .405  | 10.29 | .405  | 10.29 |
| M    | 1.729 | 43.92 | 2.154 | 54.71 | 2.664 | 67.67 | 3.259 | 82.78 |

## top cable entry type for overmold cable assemblies



## dimensions

|   | 36 Contacts |       | 50 Contacts |       |
|---|-------------|-------|-------------|-------|
|   | In.         | mm    | In.         | mm    |
| H | 2.431       | 61.75 | 3.030       | 76.96 |

NOTE: All dimensions are reference.

## order information

| Contacts | Plugs: With Bail Latch Ears For Overmold Cable Assemblies (low barrier) Part Number | Plugs: With Bail Latch Ears For Overmold Cable Assemblies (high barrier) Part Number |
|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 36       | 57-10360-29 (441)                                                                   | 57-10360-28 (441)                                                                    |
| 50       | —                                                                                   | 57-10500-79 (441)                                                                    |

## 57 series cable-to-cable connectors

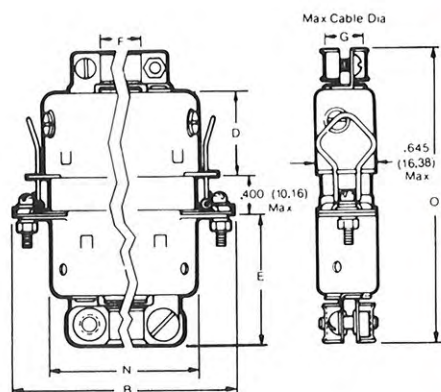
### top cable entry type



#### dimensions

|   | 14 Contacts |        | 24 Contacts |        | 36 Contacts |        | 50 Contacts |        |
|---|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
|   | in.         | mm     | in.         | mm     | in.         | mm     | in.         | mm     |
| B | 1.770       | 44.958 | 2.195       | 55.753 | 2.705       | 68.707 | 3.300       | 83.820 |
| D | .850        | 21.59  | .830        | 21.08  | .910        | 23.11  | 1.000       | 25.4   |
| E | 1.255       | 31.88  | 1.235       | 31.37  | 1.315       | 33.4   | 1.405       | 35.69  |
| F | .348        | 8.84   | .473        | 12.01  | .648        | 16.46  | .772        | 19.61  |
| G | .348        | 8.84   | .473        | 12.01  | .500        | 12.7   | .500        | 12.7   |
| N | 1.153       | 29.286 | 1.578       | 40.081 | 2.089       | 53.061 | 2.683       | 68.148 |
| O | 2.906       | 73.812 | 2.875       | 73.025 | 3.032       | 77.013 | 3.218       | 81.737 |

NOTE: All dimensions are reference.

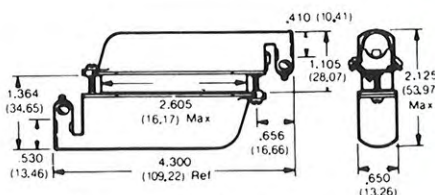


#### order information

| Contacts | Plugs: Top Cable Entry<br>Part Number | Plugs: Side Cable Entry<br>Part Number | Receptacle Mating Connection<br>With Spring Latches<br>Part Number |
|----------|---------------------------------------|----------------------------------------|--------------------------------------------------------------------|
| 14       | 57-30140                              |                                        | 57-60140                                                           |
| 24       | 57-30240                              | 57-50240                               | 57-60240                                                           |
| 36       | 57-30360                              | 57-50360                               | 57-60360                                                           |
| 50       | 57-30500                              | 57-50500                               | 57-60500                                                           |
| 50       | 57-30500-3 (high barrier)             | —                                      | —                                                                  |

### running cable type

NOTE: Only available in 50 contact size.



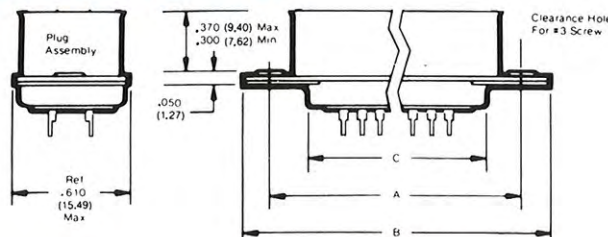
Low Profile Hood

#### order information

| 50-Size Plug Connectors w/ Metal Hoods<br>Part Number       |                                                       |
|-------------------------------------------------------------|-------------------------------------------------------|
| 57-10500-7                                                  | (low hood)— $\frac{5}{8}$ "                           |
| 57-10500-7 (402)                                            | (low hood, bulk-packed, egg crating)— $\frac{5}{8}$ " |
| 57-10500-14                                                 | (high hood)— $\frac{7}{8}$ "                          |
| 50-Size Receptacle Connectors w/ Metal Hoods<br>Part Number |                                                       |
| 57-20500-7                                                  | (high hood)— $\frac{7}{8}$ "                          |
| 57-20500-7 (402)                                            | (high hood, egg crated)— $\frac{7}{8}$ "              |
| 57-20500-19                                                 | (low hood)— $\frac{5}{8}$ "                           |

# 57 series printed circuit connectors

## straight tail without spring latch



### dimensions (See P.C. Board layout on page 8.)

|   | 14 Contacts |        | 24 Contacts |        | 36 Contacts |        | 50 Contacts |        |
|---|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
|   | in.         | mm.    | in.         | mm.    | in.         | mm.    | in.         | mm.    |
| A | 1.417       | 35.991 | 1.842       | 46.787 | 2.352       | 59.741 | 2.947       | 74.854 |
| B | 1.750       | 44.450 | 2.175       | 55.245 | 2.685       | 68.199 | 3.280       | 83.312 |
| C | .910        | 23.114 | 1.335       | 33.909 | 1.845       | 46.863 | 2.440       | 61.976 |
| D | .510        | 12.954 | .935        | 22.749 | 1.445       | 36.703 | 2.040       | 51.816 |

### order information

#### Plugs/PC Contacts (.100" tail)\*.

| Contacts | Part Number |
|----------|-------------|
| 14       | 57-10140-4  |
| 24       | 57-10240-3  |
| 36       | 57-10360-13 |
| 50       | 57-10500-27 |

#### Receptacles/PC Contacts (.100" tail): Float-Mounted\*

| Contacts | Part Number |
|----------|-------------|
| 14       | 57-20140-8  |
| 24       | 57-20240-8  |
| 36       | 57-20360-9  |
| 50       | 57-20500-31 |

#### Receptacles/PC Contacts (.100" tail): Without Float Bushings\*\*

| Contacts | Part Number |
|----------|-------------|
| 14       | 57-20140-12 |
| 24       | 57-20240-14 |
| 36       | 57-20360-15 |
| 50       | 57-20500-65 |

#### Plugs/PC Contacts (.135" tail)\*.

| Contacts | Part Number |
|----------|-------------|
| 14       | 57-10140-5  |
| 24       | 57-10240-5  |
| 36       | 57-10360-17 |
| 50       | 57-10500-46 |

#### Receptacles/PC Contacts (.135" tail): Without Float Bushings\*\*

| Contacts | Part Number |
|----------|-------------|
| 14       | 57-20140-10 |
| 24       | 57-20240-11 |
| 36       | 57-20360-13 |
| 50       | 57-20500-58 |

#### Receptacles/PC Contacts (.156" tail): Without Float Bushings\*\*

| Contacts | Part Number |
|----------|-------------|
| 14       | N/A         |
| 24       | 57-20240-23 |
| 36       | 57-20360-19 |
| 50       | 57-20500-85 |

#### Plugs/PC Contacts (.156" tail)\*.

| Contacts | Part Number |
|----------|-------------|
| 14       | N/A         |
| 24       | 57-10240-12 |
| 36       | 57-10360-25 |
| 50       | 57-10500-73 |

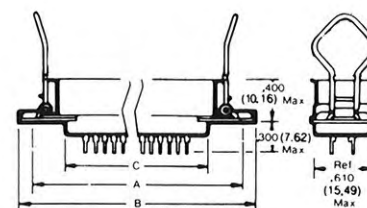
\* 103" Mounting Hole (accepts #3 screw — not included)  
\*\* 185" Mounting Hole (accepts #8 screw — not included)

## straight tail with spring latch



### order information

| Contacts | Receptacles/<br>PC Contacts<br>With Spring Latch<br>(.100" tail) | Receptacles/<br>PC Contacts<br>With Spring Latch<br>(.135" tail) | Receptacle<br>PC Contacts<br>With Spring Latch<br>(.156" tail) |
|----------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| 14       | 57-40140-8                                                       | 57-40140-11                                                      | N/A                                                            |
| 24       | 57-40240-9                                                       | 57-40240-11                                                      | 57-40240-14                                                    |
| 36       | 57-40360-12                                                      | 57-40360-16                                                      | 57-40360-24                                                    |
| 50       | 57-40500-9                                                       | 57-40500-16                                                      | 57-40500-24                                                    |

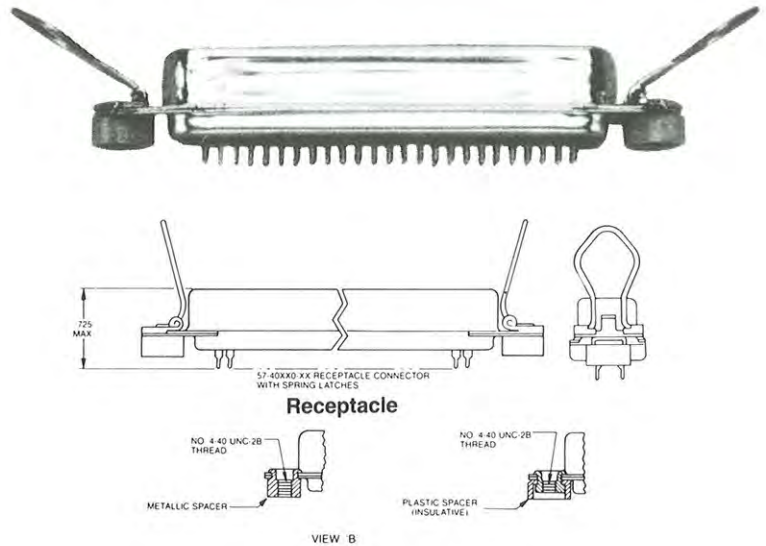
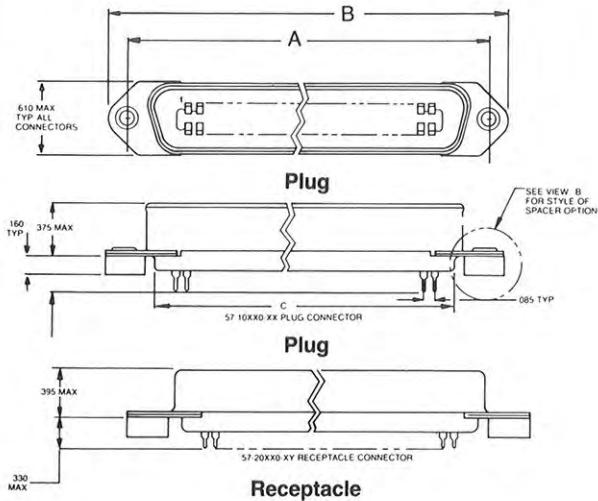


### dimensions

See dimensions table at top of page.  
(See P.C. Board layout on page 8.)

## 57 series printed circuit connectors (cont.)

### straight tail with standoff



### dimensions

See dimensions table at top of page 7.

### order information

#### Plugs/PC Contacts (.156) Metallic Standoff

|    |             |
|----|-------------|
| 24 | 57-10240-14 |
| 36 | 57-10360-27 |
| 50 | 57-10500-77 |

#### Receptacles/PC Contacts (.156) Metallic Standoff

|    |             |
|----|-------------|
| 24 | 57-20240-25 |
| 36 | 57-20360-21 |
| 50 | 57-20500-87 |

#### Receptacles/PC Contacts (.156) And Spring Latches Metallic Standoff

|    |             |
|----|-------------|
| 24 | 57-40240-16 |
| 36 | 57-40360-23 |
| 50 | 57-40500-26 |

#### Plugs/PC Contacts (.156) Insulative Standoff

|    |             |
|----|-------------|
| 24 | 57-10240-13 |
| 36 | 57-10360-26 |
| 50 | 57-10500-69 |

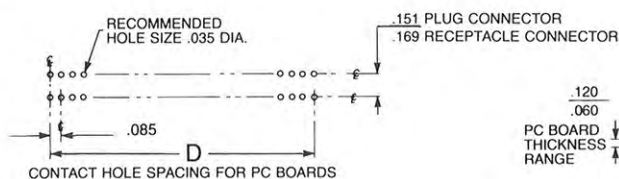
#### Receptacles/PC Contacts (.156) Insulative Standoff

|    |             |
|----|-------------|
| 24 | 57-20240-24 |
| 36 | 57-20360-20 |
| 50 | 57-20500-79 |

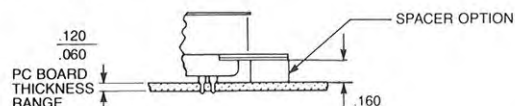
#### Receptacles/PC Contacts (.156) And Spring Latches Insulative Standoff

|    |             |
|----|-------------|
| 24 | 57-40240-15 |
| 36 | 57-40360-21 |
| 50 | 57-40500-23 |

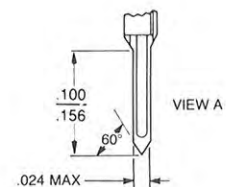
### typical mounting, contact hole spacing and termination lengths for PC boards



See dimensions table at top of page 7.



TYPICAL CONNECTOR MOUNTING  
FOR PRINTED CIRCUIT BOARD



## 57 series right angle PCB mount receptacle

(see also page 25, 57LE right angle)



### specifications

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| <b>Current rating:</b>        | 5 amps/contact                                |
| <b>Voltage rating:</b>        | 700 VDC at sea level<br>200 VDC at 70,000 ft. |
| <b>Withstanding voltage:</b>  | 1,000 VAC                                     |
| <b>Insulation resistance:</b> | 1,000 Megaohms min.                           |
| <b>Contact resistance:</b>    | 15 Milliohms max.                             |
| <b>Operating temperature:</b> | -67 °F to +221 °F<br>(-55 °C to +105 °C)      |

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| <b>Insulator material:</b> | Reinforced thermo-plastic UL 94 V-O rated, black               |
| <b>Contact material:</b>   | Beryllium Copper                                               |
| <b>Shell material:</b>     | Steel, Aluminum killed, Zinc plated with clear chromate finish |
| <b>Ground bracket:</b>     | Cold rolled Steel; bright Tin plated                           |

Amphenol introduces a new low profile right angle printed circuit board receptacle for Host Adapter Accessory Cards. Developed in response to newly emerging SCSI applications, it is also an ideal choice for any application requiring a low-cost, right angle PC tail connector.

Available in either standard, or reverse polarization, these receptacles are completely interchangeable with standard Amphenol micro-ribbon® connectors. To accommodate PC panel or chassis thickness, the front shell has been lengthened 0.100". A 0.070" reduction in connector-to-board height, as measured from PCB surface to connector centerline, provides a lower profile to accommodate PC Host Adapter Card/IO Port configurations.

Beryllium copper contacts feature recessed "Closed Front Entry" design for improved ESD suppression. The positive mating action of these contacts is self-wiping and self-cleaning, resulting in highly reliable electrical continuity and low contact resistance. Spring clip or jack screw mounting hardware assures connectors remain tightly engaged.

|                         |                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Contact plating:</b> | 30 microinches Gold in mating area, 100 microinches Tin/Lead on tails, 50 microinches Nickel underplate |
|-------------------------|---------------------------------------------------------------------------------------------------------|

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| <b>Mounting plates:</b> | Cold rolled Steel; Zinc plated with clear chromate finish |
|-------------------------|-----------------------------------------------------------|

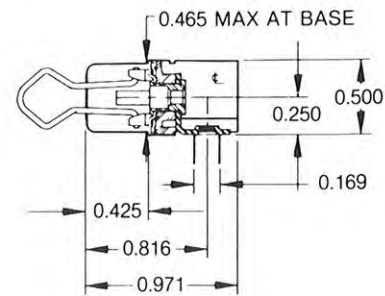
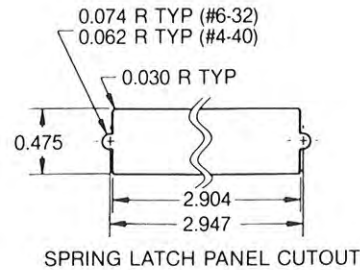
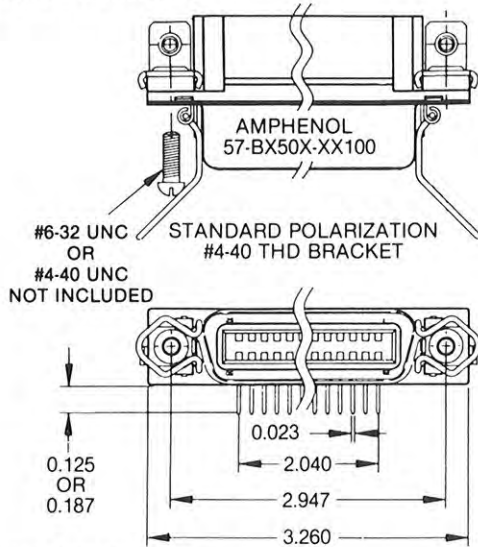
### order information

|                                                      |      |   |    |   |     |   |    |                                                                                                                       |
|------------------------------------------------------|------|---|----|---|-----|---|----|-----------------------------------------------------------------------------------------------------------------------|
| <b>Series</b>                                        | 57-B | X | 50 | X | -XX | X | 00 | <b>Ground Bracket Type</b>                                                                                            |
| <b>Tail Length /Mtg. Thd. Size /Connection Style</b> |      |   |    |   |     |   |    | 1 = #4-40 thd. extrusion<br>2 = P.C.B. locking tabs (.062 P.C.B.)                                                     |
| A = 0.125" / #6-32 thd. /spring latch                |      |   |    |   |     |   |    |                                                                                                                       |
| C = 0.125" / #4-40 thd. /spring latch                |      |   |    |   |     |   |    |                                                                                                                       |
| E = 0.125" / #6-32 thd. /jackscrew                   |      |   |    |   |     |   |    |                                                                                                                       |
| G = 0.125" / #4-40 thd. /jackscrew                   |      |   |    |   |     |   |    |                                                                                                                       |
|                                                      |      |   |    |   |     |   |    | <b>AM = 30 micro in. min Gold on mating area; 100 micro in. Tin/Lead on tails; 50 micro-in min Nickel underplate.</b> |
|                                                      |      |   |    |   |     |   |    | <b>Receptacle Style/Contact Material</b>                                                                              |
|                                                      |      |   |    |   |     |   |    | B = standard "D" polarization/Beryllium Copper                                                                        |
|                                                      |      |   |    |   |     |   |    | D = reverse "D" polarization/Beryllium Copper                                                                         |

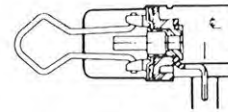
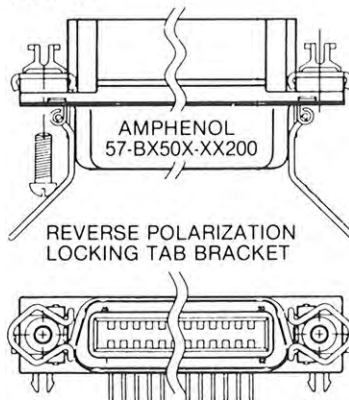
# 57 series right angle PCB mount receptacle (cont.)

## receptacle with spring latch

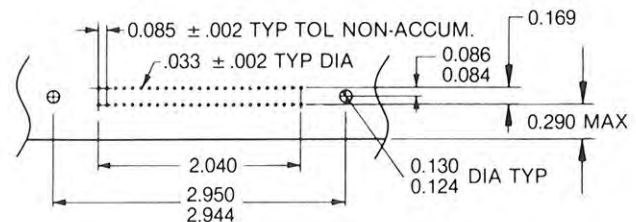
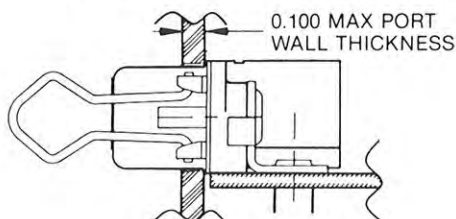
### Standard Polarization



### Reverse Polarization



## mounting specifications



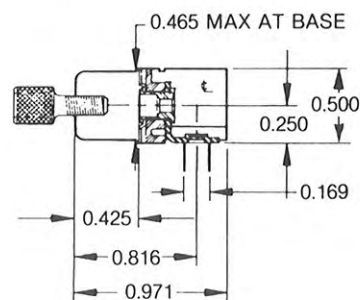
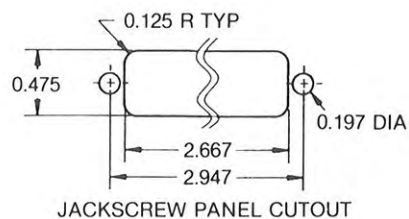
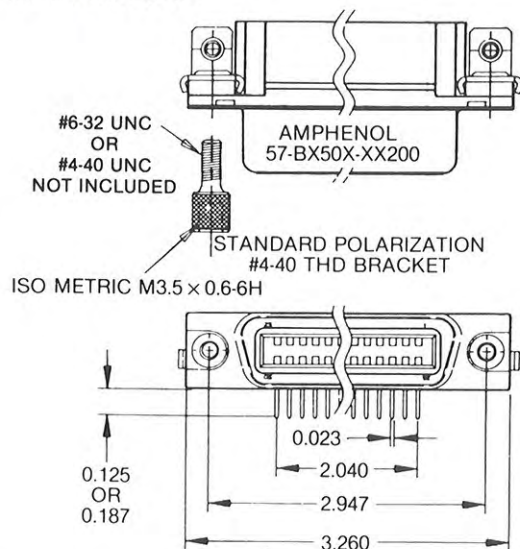
## Mounting Hardware Supplied Separately (20 screws per package—order by number of packages)

| Hardware Description                 |               | Part Number For<br>Screw With #6-32<br>External Thread | Part Number For<br>Screw With #4-40<br>External Thread |
|--------------------------------------|---------------|--------------------------------------------------------|--------------------------------------------------------|
| Screw For Spring Latch Receptacle    |               | 57-1911-01                                             | 57-2030                                                |
| Jackscrews (Internal<br>Thread Size) | M3.5 × 0.6-6H | 57-1912-02                                             | 57-2031                                                |
|                                      | #4-40 UNC-2B  | —                                                      | 57-2054                                                |

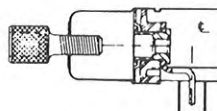
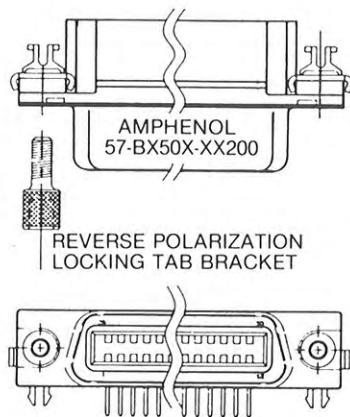
# 57 series right angle PCB mount receptacle (cont.)

## receptacle with jack screw

### Standard Polarization



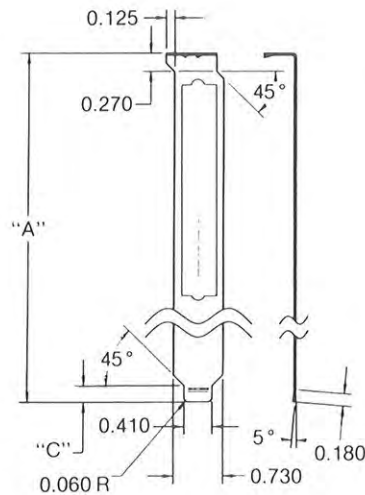
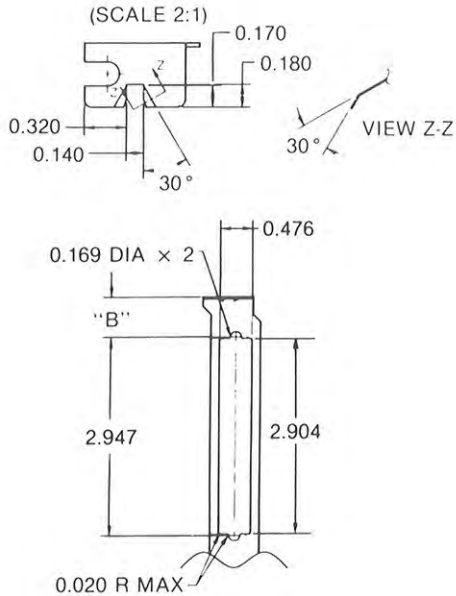
### Reverse Polarization



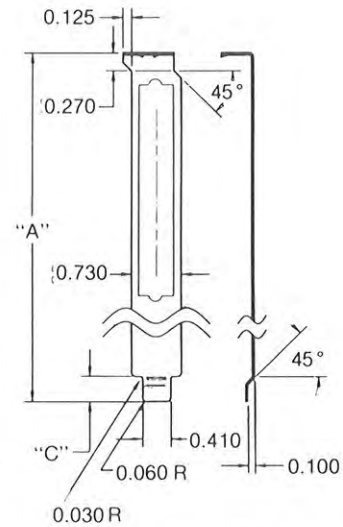
| Item           | Material                                                | Standard Plating                                                                                                             |
|----------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Housing        | Reinforced thermoplastic UL rated 94V-0, black          |                                                                                                                              |
| Contacts       | 0.008" Beryllium Copper                                 | 30 microinches Gold mating area; 100 microinches Tin/Lead on tails; 50 microinches Nickel underplating                       |
| Shell          | Cold rolled Steel<br>Aluminum killed, deep draw quality | .0002-.0004" electrodeposited clear chromate over<br>.0002-.0004" electrodeposited Zinc per spec. QQ-Z-325, Class 3, Type II |
| Ground bracket | Cold rolled Steel                                       | .0002-.0004" bright Tin plating                                                                                              |
| Rivets         | SAE C-1006 Steel                                        | .0002-.0004" electrodeposited clear chromate over<br>.0002-.0004" electrodeposited Zinc per spec QQ-Z-325, Class 3, Type II  |
| Spring latch   | 0.038" dia. Stainless Steel wire                        |                                                                                                                              |

# 57 series right angle PCB mount receptacle (cont.)

## host adapter card mounting plates for 50 position receptacle



Straight Tab



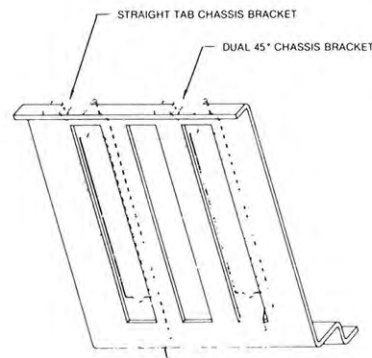
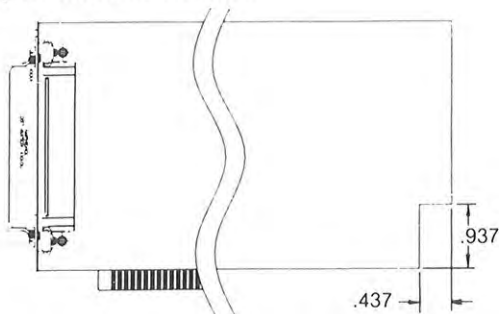
Dual 45° Tab

## dimensions/order information (10 000 pc. MOQ)

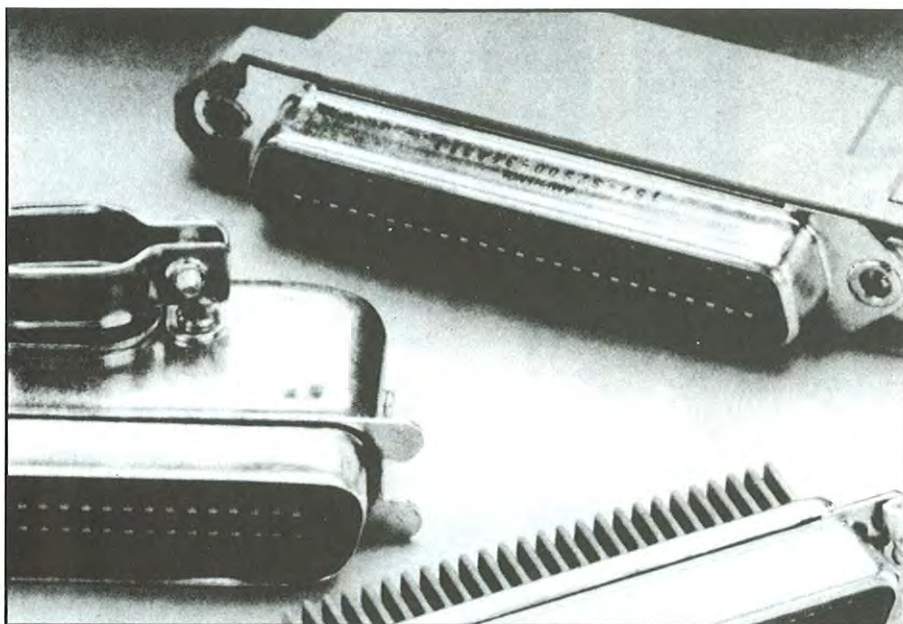
| Tab Style | Amphenol Part Number | Dimensions |       |       |
|-----------|----------------------|------------|-------|-------|
|           |                      | A          | B     | C     |
| Straight  | 57-2039-802          | 4.750      | 0.562 | 0.240 |
| Dual 45°  | 57-2039-902          | 4.150      | 0.630 | 0.346 |

## applications

### Host Adapter Card Accessories



## general configuration – 157 series I.D.C. termination



### description

Amphenol 157 Micro-Pierce connectors combine the field-proven features and reliability of 57 series micro-ribbon solder-type connectors with the speed and convenience of solderless termination.

These versatile rack and panel, cable to panel, and cable to cable connectors are available in 14-, 24-, 36-, 50- and 64-contact configurations (see factory for 64-pin option).

Solderless termination, as accomplished using either hand or automatic termination equipment is fast, requires no special skill, yet results in reliable, virtually mistake-proof termination because individual conductor preparation is not necessary.

### features

- Glass-filled polyester dielectric permits operation to 700 VDC at sea level without shorting or flashover. Dielectric resists cracking or chipping — has high mechanical strength. Also low moisture absorption.
- Iron-copper contacts with plated gold over nickel for excellent current-carrying characteristics up to 5 amps.
- Terminal area provides positive insulation-piercing, excellent electrical continuity as wiped-clean conductor cold-flows around engaging surface to form large contact area.
- Float-bushing mouting permits .020 radial float for easy mating.
- Zinc-plated steel outer shell with clear chromate finish resists corrosion.
- Wide, flat mating surfaces are pressed tightly together by the flexing action of both contacts for protection against "opens".
- Positive mating action wipes contacts clean, removes film or foreign material for low contact resistance.
- Trapezoidal shell assures correct polarity.

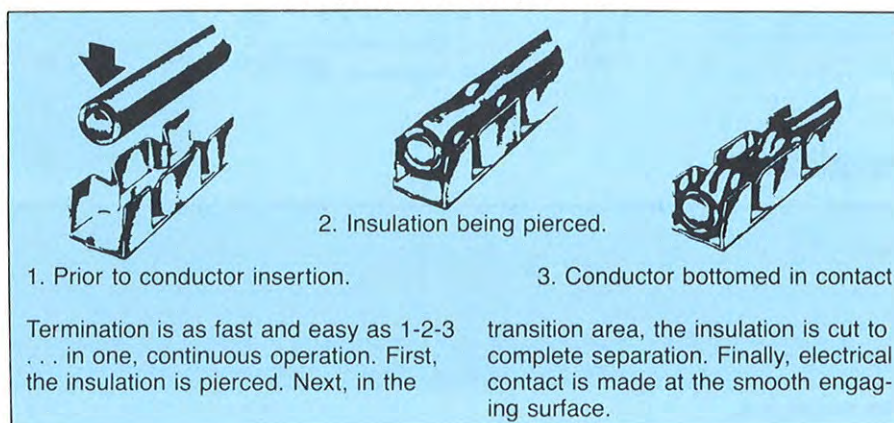
### general specifications

#### All Micro-Pierce Connectors

|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| Current capacity      | 5 amp per contact                                                                              |
| Voltage rating        | 700 VDC at sea level<br>200 VDC at 70,000 ft.                                                  |
| Operating temperature | -67°F to +221°F<br>-55°C to +105°C                                                             |
| Wire sizes            | 22 and 26 AWG, solid conductor*<br>26 and 28 AWG, stranded conductor                           |
| Contacts              | Selectively plated 20 microinches gold over 50 microinches nickel on a copper alloy base       |
| Dielectric            | DPT UL94V-0                                                                                    |
| Shells                | Zinc-plated steel with clear chromate coating. Trapezoidal shape assure positive polarization. |

\*see factory for further information

### 3-Step Insulation Displacement



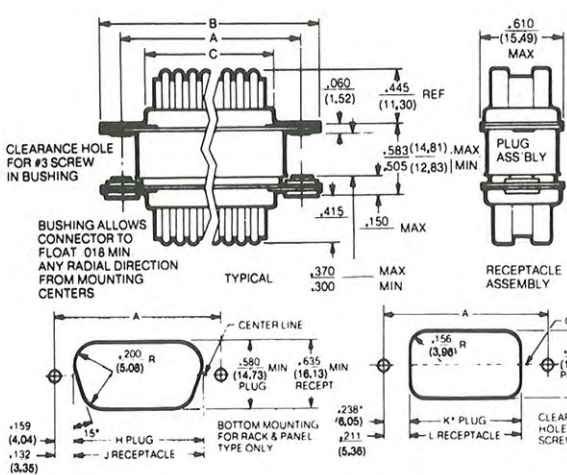
FILE E64911



Canadian Standards Association

FILE LR 45516-14

157 series rack-and-panel connectors



order information

| Contacts | Plug         | Receptacle    |
|----------|--------------|---------------|
| 14       | 157-12140    | 157-22140     |
| 24       | 157-12240*** | 157-22240***  |
| 36       | 157-12360    | 157-22360     |
| 50       | 157-12500    | 157-22500     |
| 50       | 157-12500-3* | 157-22500-3** |
| 64       | 157-12640    | 157-22640     |

\*IEEE type with .185 mounting hole.  
 \*\*IEEE type with .185 mounting hole less float bushing.  
 \*\*\*IEEE type.

IEEE mounting hardware

408-153819 Inside panel mount hardware includes two each studs, nuts, washers.  
 408-153818 Outside panel mount hardware includes two each studs, nuts, washers.

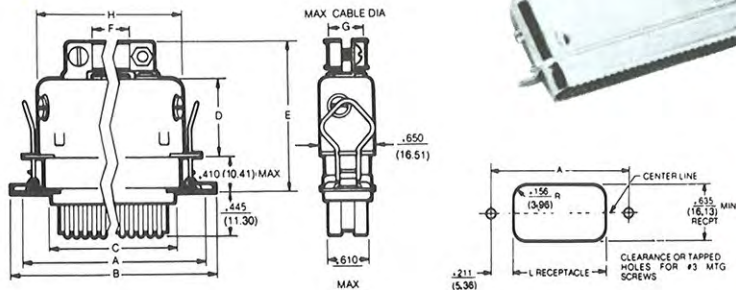
dimensions

| Contacts | A     |       | B     |       | C     |       | Bottom Mounting |       | Top Mounting |       |       |       |
|----------|-------|-------|-------|-------|-------|-------|-----------------|-------|--------------|-------|-------|-------|
|          | In.   | mm    | In.   | mm    | In.   | mm    | H               | J     | K            | L     | In.   | mm    |
| 14       | 1.417 | 35.99 | 1.750 | 44.45 | .910  | 23.11 | 1.099           | 27.92 | 1.153        | 29.29 | .941  | 23.90 |
| 24       | 1.842 | 46.79 | 2.175 | 55.25 | 1.335 | 33.91 | 1.524           | 38.71 | 1.578        | 40.08 | 1.366 | 34.70 |
| 36       | 2.352 | 59.74 | 2.685 | 68.20 | 1.845 | 46.86 | 2.034           | 51.66 | 2.088        | 53.04 | 1.876 | 47.65 |
| 50       | 2.947 | 74.85 | 3.280 | 83.31 | 2.440 | 61.98 | 2.629           | 66.78 | 2.683        | 68.15 | 2.471 | 62.76 |
| 64       | 3.542 | 89.97 | .875  | 98.43 | 3.035 | 77.09 | 3.224           | 81.89 | 3.278        | 83.26 | 3.066 | 77.88 |

NOTE: All rack and panel receptacle connectors have a float-bushing mount that permits .020" (.51mm) radial float for ease of mounting and connection. Connectors may be mounted above or below panels (see cut-out drawings above) using #3 mounting screws.

157 series cable-to-panel connectors

top cable entry type



order information

| Contacts | Plug (screw type hood) | Receptacle |
|----------|------------------------|------------|
| 14       | 157-32140              | 157-42140  |
| 24       | 157-32240              | 157-42240  |
| 36       | 157-32360              | 157-42360  |
| 50       | 157-32500              | 157-42500  |

dimensions

| Contacts | A     |       | B     |       | C     |       | D     |       | E     |       | F    |       | G    |       | H     |       | L     |       |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|
|          | In.   | mm    | In.   | mm    | In.   | mm    | In.   | mm    | In.   | mm    | In.  | mm    | In.  | mm    | In.   | mm    | In.   | mm    |
| 14       | 1.417 | 35.99 | 1.77  | 44.96 | .910  | 23.11 | .850  | 21.59 | 1.665 | 42.29 | .348 | 8.84  | .348 | 8.84  | 1.153 | 29.29 | .995  | 25.27 |
| 24       | 1.842 | 46.79 | 2.195 | 55.75 | 1.335 | 33.91 | .830  | 21.08 | 1.645 | 41.78 | .473 | 12.01 | .473 | 12.01 | 1.578 | 40.08 | 1.420 | 36.07 |
| 36       | 2.352 | 59.74 | 2.705 | 68.70 | 1.845 | 46.86 | .910  | 23.11 | 1.725 | 43.82 | .648 | 16.46 | .500 | 12.7  | 2.089 | 53.06 | 1.930 | 46.02 |
| 50       | 2.947 | 74.85 | 3.300 | 83.82 | 2.440 | 61.98 | 1.000 | 25.4  | 1.815 | 46.1  | .772 | 19.61 | .500 | 12.7  | 2.683 | 68.15 | 2.525 | 64.14 |

\*Has .185 mounting hole.

## 157 series cable-to-panel connectors (cont.)

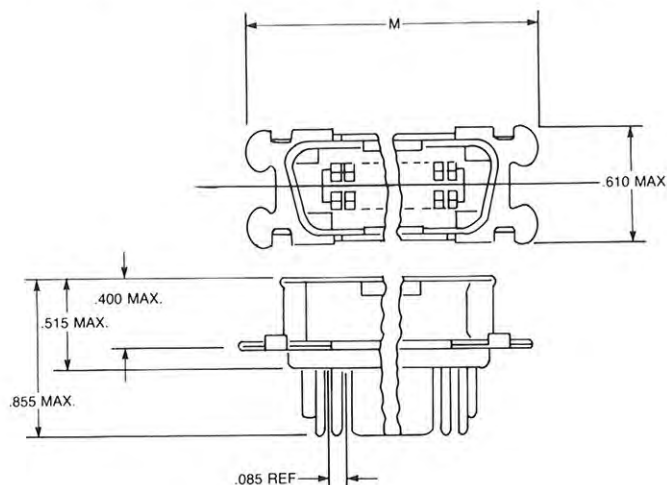
### top cable entry type (for overmold cable assemblies)

#### order information

| Contacts | Plugs: with bail latch ears for overmold cable assemblies<br>Part Number |
|----------|--------------------------------------------------------------------------|
| 36       | 157-12360-5 (441)                                                        |
| 50       | 157-12500-10 (441)                                                       |

#### dimensions

|   | 36 Contacts |       | 50 Contacts |       |
|---|-------------|-------|-------------|-------|
|   | In.         | mm    | In.         | mm    |
| M | 2.431       | 61.75 | 3.025       | 76.84 |



## SCSI overmold hood kit for 50 position connectors

This kit, including two hermaphroditic hood shells and a ferrule, reduces user pre-mold operations thus lowering labor costs. Also, the single crimp ferrule eliminates the need for an inner/outer crimp typical of other product offerings.

#### applications

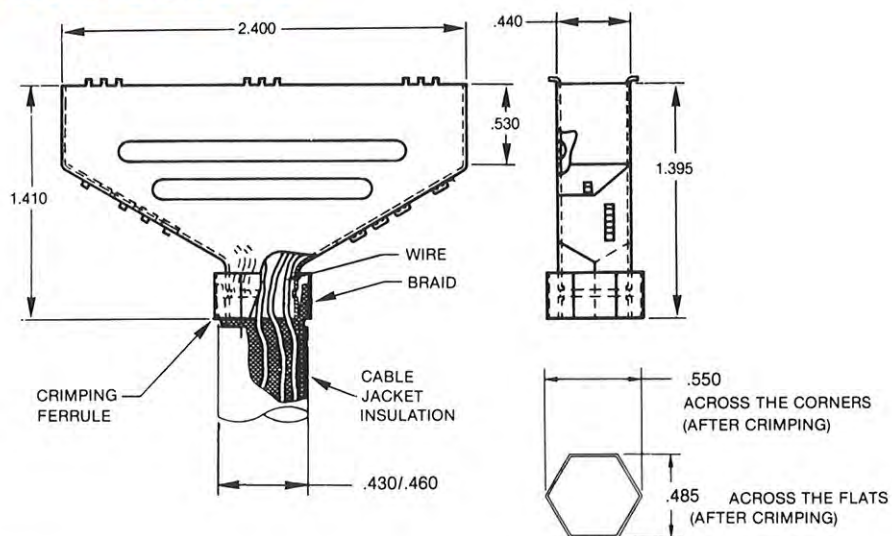
For use with the following Amphenol connectors:

157-12500-10 (441) 157-12500-14 (441)  
157-22500-14 (441) 157-42500 (441)

Use suffix "508" for connector & overmold hood combination kit, i.e., 157-12500-10-(508)

#### order information

Part Number: 157-1869-501

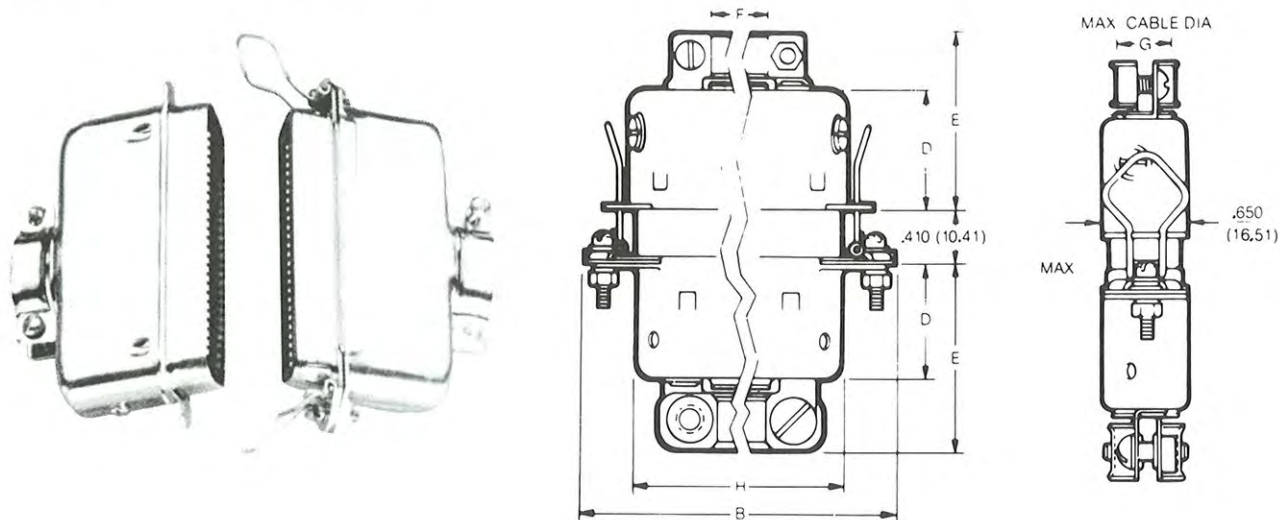


#### Assembly Instructions:

- 1.) Slide ferrule over the cable.
- 2.) Remove jacket insulation to appropriate length.
- 3.) Remove braid to appropriate length.
- 4.) Roll back braid over the jacket insulation.
- 5.) Terminate the connector.
- 6.) Assemble the overmold hoods.
- 7.) Roll back braid over the hoods.
- 8.) Slide ferrule over the braid such that the braid is sandwiched between the hood and ferrule.
- 9.) Crimp the ferrule.

# 157 series cable-to-cable connectors

## top cable entry type



## dimensions

| Contacts | B MAX |       | D MAX |       | E MAX |       | F MAX |       | G    |       | H MAX |       |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
|          | In.   | mm    | In.   | mm    | In.   | mm    | In.   | mm    | In.  | mm    | In.   | mm    |
| 14       | 1.770 | 44.96 | .850  | 21.59 | 1.255 | 31.88 | .348  | 8.84  | .348 | 8.84  | 1.153 | 29.29 |
| 24       | 2.195 | 55.75 | .830  | 21.08 | 1.235 | 31.37 | .473  | 12.01 | .473 | 12.01 | 1.578 | 40.08 |
| 36       | 2.705 | 68.70 | .910  | 23.11 | 1.315 | 33.4  | .648  | 16.46 | .500 | 12.7  | 2.089 | 53.06 |
| 50       | 3.30  | 83.82 | 1.000 | 25.4  | 1.405 | 35.69 | .772  | 19.61 | .500 | 12.7  | 2.683 | 68.15 |

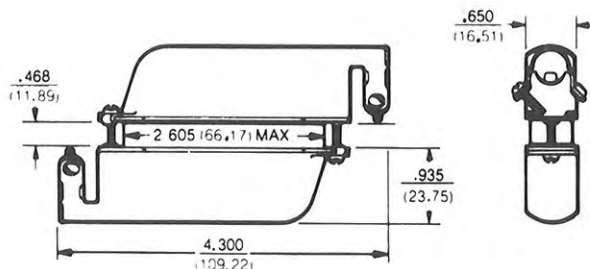
## order information

| Contacts | Top Cable Entry |            |
|----------|-----------------|------------|
|          | Plug            | Receptacle |
| 14       | 157-32140       | 157-62140  |
| 24       | 157-32240       | 157-62240  |
| 36       | 157-32360       | 157-62360  |
| 50       | 157-32500       | 157-62500  |

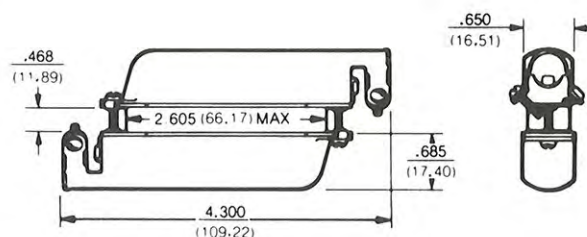
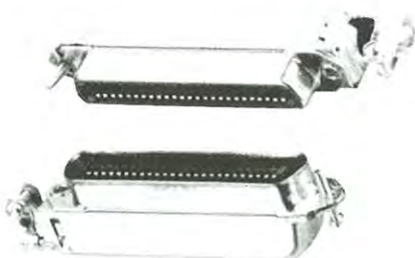
# 157 series cable-to-cable connectors (cont.)

## end cable entry type

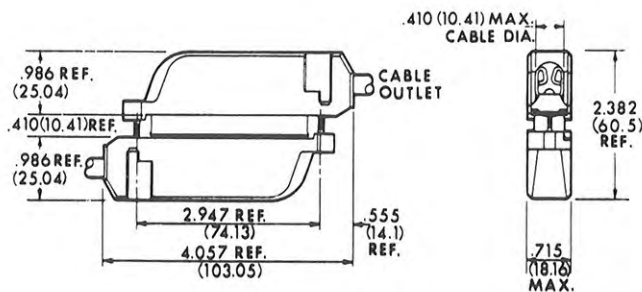
### low profile steel hood



### ultra-low profile steel hood



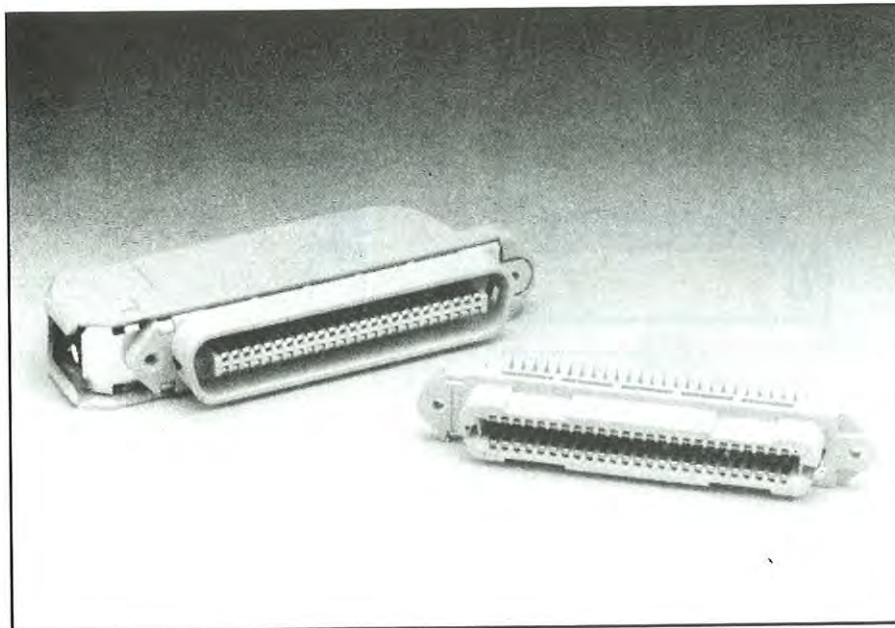
### low profile plastic hood



## order information

| Contacts | Low-Profile Steel Hood |             | Ultra-Low Profile Steel Hood |              | All-Plastic Hood |                  |
|----------|------------------------|-------------|------------------------------|--------------|------------------|------------------|
|          | Plug                   | Receptacle  | Plug                         | Receptacle   | Plug             | Receptacle       |
| 50       | 157-72500-3            | 157-82500-3 | 157-72500-18                 | 157-82500-18 | 157-72500-3(431) | 157-82500-3(431) |

# 157 series all-plastic Micro-Pierce® connectors



## features

- Glass-filled polyester dielectric permits operation to 700 VDC at sea level without shorting or flashover. Dielectric resists cracking or chipping — has high mechanical strength. Also low moisture absorption.
- Iron-copper contacts with plated gold over nickel for excellent current-carrying characteristics up to 5 amps.
- Terminal area provides positive insulation-piercing, excellent electrical continuity as wiped-clean conductor cold-flows around engaging surface to form large contact area.
- Float-bushing mounting permits .020 radial float for easy mating.
- Zinc-plated steel outer shell with clear chromate finish resists corrosion.
- Wide, flat mating surfaces are pressed tightly together by the flexing action of both contacts for protection against "opens".
- Positive mating action wipes contacts clean, removes film or foreign material for low contact resistance.
- Trapezoidal shell assures correct polarity.
- 90° plastic hoods are separate from the cable clamp device which is attached directly to the connector body. The hood snaps on and off easily.
- The mated connectors may be locked together with either spring clips, provided on the receptacle, or a captivated screw. With the spring clip locking device there is no need for additional hardware. The spring clips engage the windows provided in the plug body.

## description

Amphenol 157 Micro-Pierce connectors combine the field-proven features and reliability of 57 series micro-ribbon solder-type connectors with the speed and convenience of solderless termination.

Solderless termination, as accomplished using either hand or automatic termination equipment, is fast, requires no special skill, yet results in reliable, virtually mistake-proof termination because individual conductor preparation is not necessary.

## specifications

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| <b>Current capacity:</b>      | 5 amp per contact                                                                        |
| <b>Voltage rating:</b>        | 700 VDC at sea level<br>200 VDC at 70,000 ft.                                            |
| <b>Operating temperature:</b> | -67°F to +221°F<br>-55°C to +105°C                                                       |
| <b>Wire sizes</b>             | 24 and 26 AWG, solid conductor;<br>26 and 28 AWG, stranded conductor                     |
| <b>Contacts</b>               | Selectively plated 20 microinches gold over 50 microinches nickel on a copper alloy base |
| <b>Dielectric</b>             | Fiberglass-filled polyester                                                              |

### 3-Step Insulation Displacement:

1. Prior to conductor insertion.
2. Insulation being pierced.
3. Conductor bottomed in contact.

Termination is as fast and easy as 1-2-3 ... in one, continuous operation. First, the insulation is pierced. Next, in the

transition area, the insulation is cut to complete separation. Finally, electrical contact is made at the smooth engaging surface.



UL  
Component  
Recognition

FILE E64911



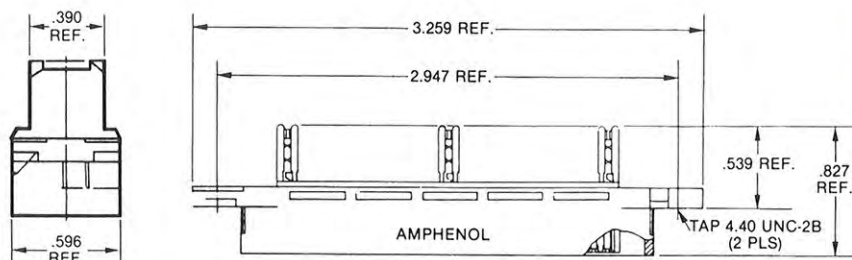
Canadian  
Standards  
Association

FILE LR 45516-14

# 157 series all-plastic Micro-Pierce® connectors (cont.)

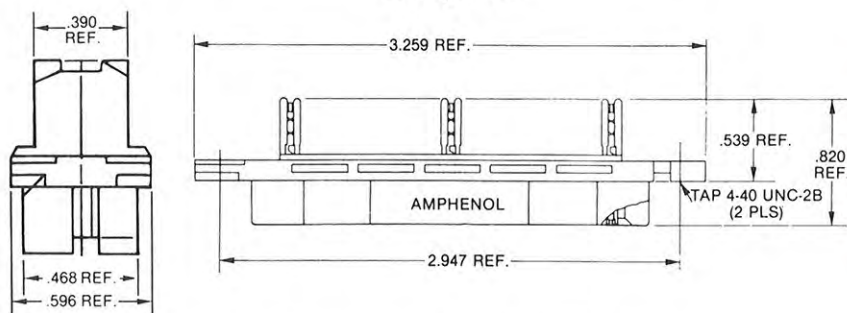
## dimensions and order information

**Plug**



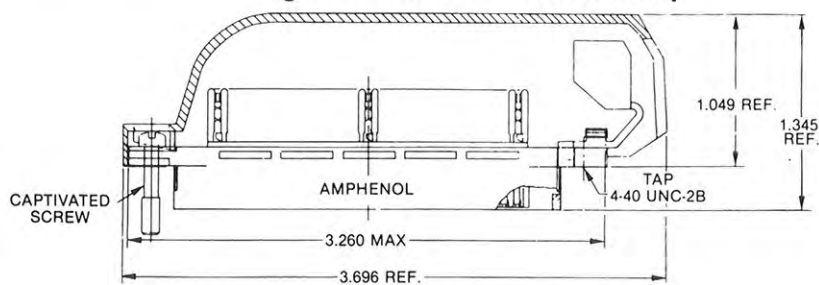
| Mounting Arrangement | Amphenol Part Number |
|----------------------|----------------------|
| 4-40 tapped 2 pls.   | 157-19500-01         |
| .125" thru holes     | 157-19500-02         |

**Receptacle**



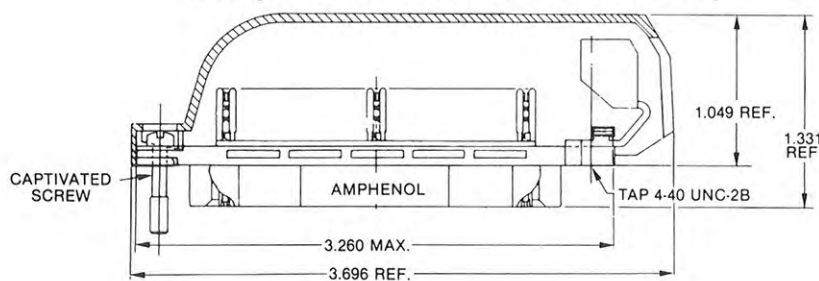
| Mounting Arrangement                 | Amphenol Part Number |
|--------------------------------------|----------------------|
| 4-40 tapped 2 pls.                   | 157-29500-01         |
| .125" thru holes                     | 157-29500-02         |
| 4-40 tapped 2 pls. with spring clips | 157-29500-03         |
| .125" thru holes with spring clips   | 157-29500-04         |

**Plug with hood and cable clamp**



| Mounting Arrangement                               | Amphenol Part Number |
|----------------------------------------------------|----------------------|
| 4-40 captivated screw, tapped hole and cable clamp | <b>157-79500-01</b>  |
| 4-40 tapped 2 pls. and cable clamp                 | 157-79500-02         |

**Receptacle with hood and cable clamp**



| Mounting Arrangement                                 | Amphenol Part Number |
|------------------------------------------------------|----------------------|
| 4-40 captivated screw, tapped hole and cable clamp   | <b>157-89500-01</b>  |
| 4-40 tapped 2 pls. with spring clips and cable clamp | 157-89500-02         |

# connectors for small computer system interface (SCSI) applications

## description

Amphenol 57 and 157 series connectors are ideally suited for small computer system interface (SCSI), given their compact design and versatility.

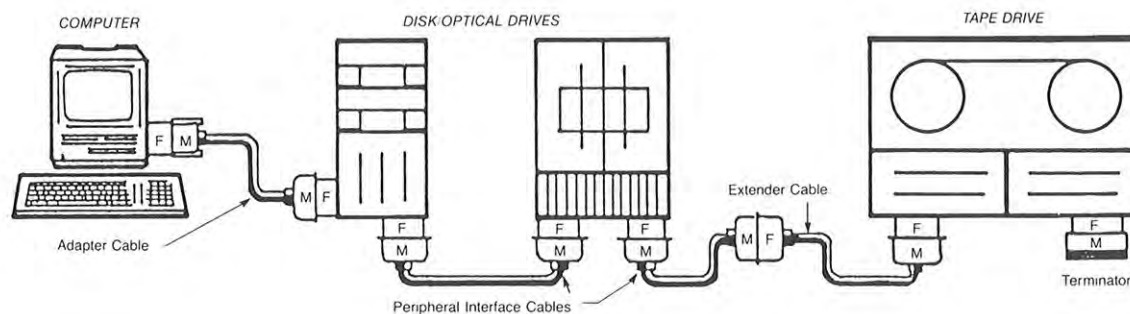
These connectors provide the internal and external interconnections between host computers and various types of peripheral devices including: disk drives; tape drives; printers; and optical disk storage units.

Amphenol 57 and 157 series connectors for SCSI applications provide plugs incorporating grounding indents for maximum EMI/RFI protection, in addition to tin plated shells for solderability.

An overmold can is available for the 157 series 50 contact connector. Also available is a low profile right angle printed circuit board connector for host adapter accessory cards.

## applications

The schematic diagram shown on this page illustrates a typical interconnect configuration as defined by ANSI X3T9.2. While this may vary by manufacturer and equipment design, it serves to demonstrate the SCSI interconnect system and connectors offered by Amphenol.

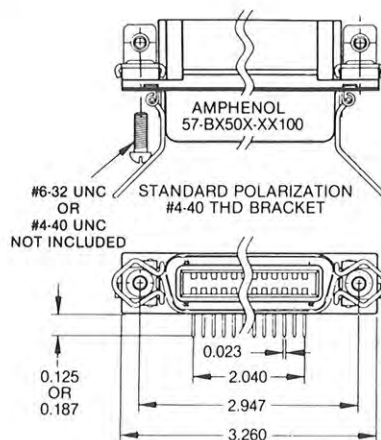


# SCSI board mount type 50 position receptacle

## order information

Part Number: 57-BX50X-XXX00 & 57LE-40XX0-X70XX (drawing not shown)

NOTE: See pages 9 & 26 for specifications and order information for this connector.



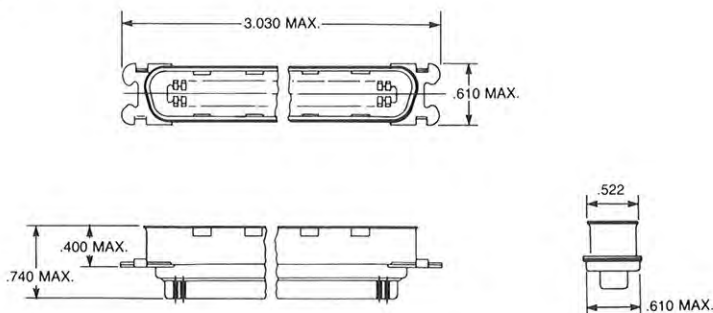
# SCSI solder type 50 position plug for spring latch

Applications: Terminators and Feed-through Adapters

## order information

Part Number: 57-10500-79 (441)

NOTE: See page 5 for specifications and order information for this connector.

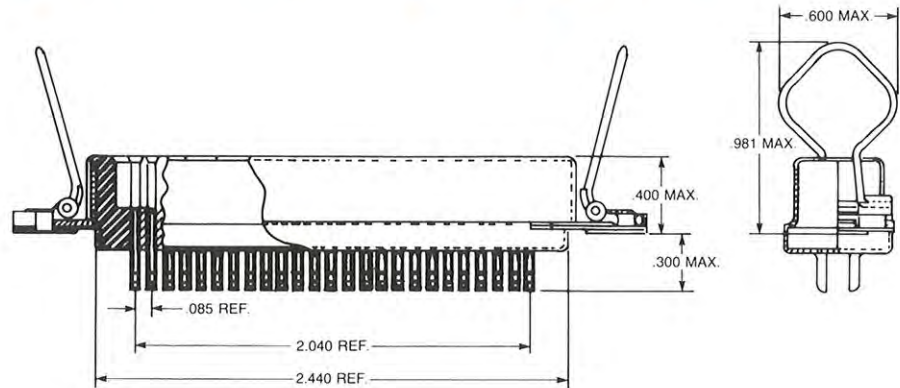


## SCSI solder type 50 position receptacle with spring latch

Applications: Feed-through Adapters

**order information**  
Part Number: 57-40500 (441)

NOTE: See page 4 for specifications and order information for this connector.



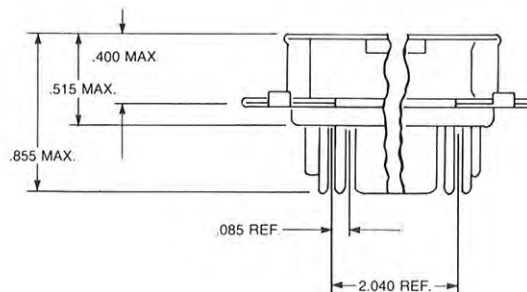
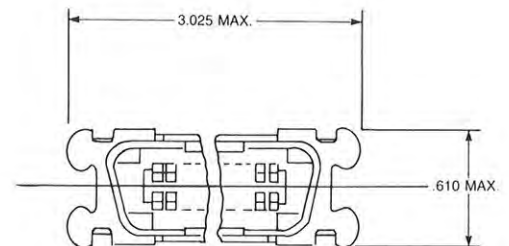
## SCSI overmold cable connectors (IDC)

### 50 position plug for spring latching

Applications: Adapters, Peripheral Interface and Extended Cables

**order information**  
Part Number: 157-12500-10 (441)

NOTE: See page 15 for specifications and order information for this connector.



## SCSI overmold cable connectors (IDC)

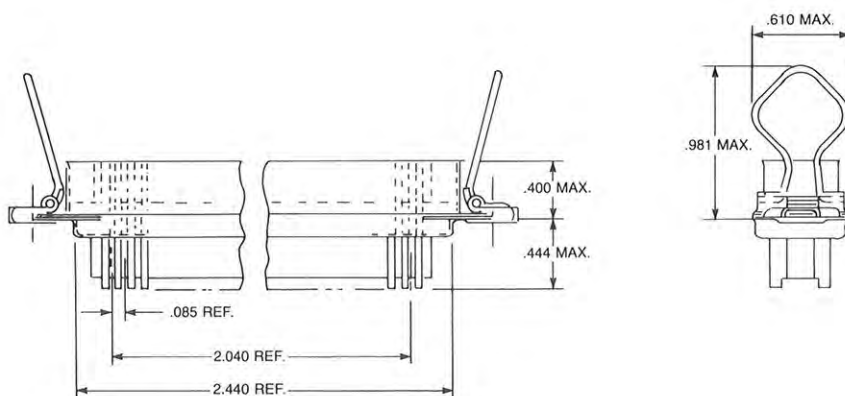
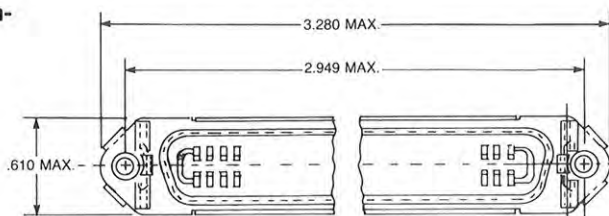
### 50 position receptacle with spring latch

Applications: Adapters; Peripheral Interface; and Extended Cables

#### order information

Part Number: 157-42500 (441)

NOTE: See page 15 for specifications and order information for this connector.



## SCSI overmold cable connectors (IDC)

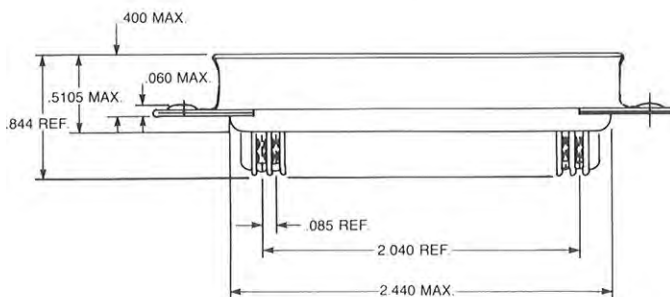
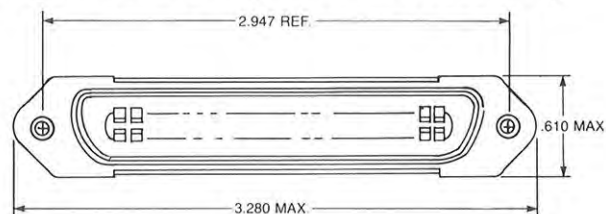
### 50 position plug for 4-40 mounting screws (not included)

Applications: Adapters, Peripheral Interface or Extended Cables

#### order information

Part Number: 157-12500-14 (441)

NOTE: See page 14 for specifications and order information for this connector.



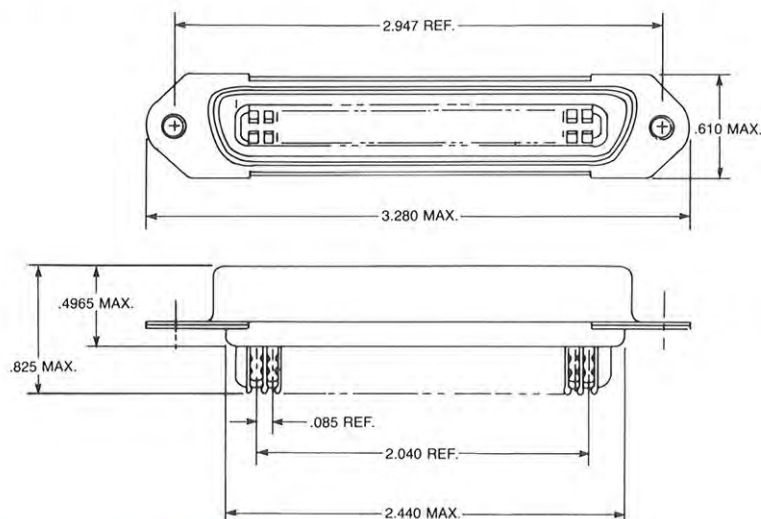
## SCSI overmold cable connectors (IDC)

### 50 position receptacle for 4-40 screws (not included)

Applications: Adapters; Peripheral Interface; and Extended Cables

#### order information

Part Number: 157-22500-14 (441)



## SCSI overmold hood kit for 50 position connectors

This kit, including two hermaphroditic hood shells and a ferrule, reduces user pre-mold operations thus lowering labor costs. Also, the single crimp ferrule eliminates the need for an inner/outer crimp typical of other product offerings.

#### applications

For use with the following

Amphenol connectors:

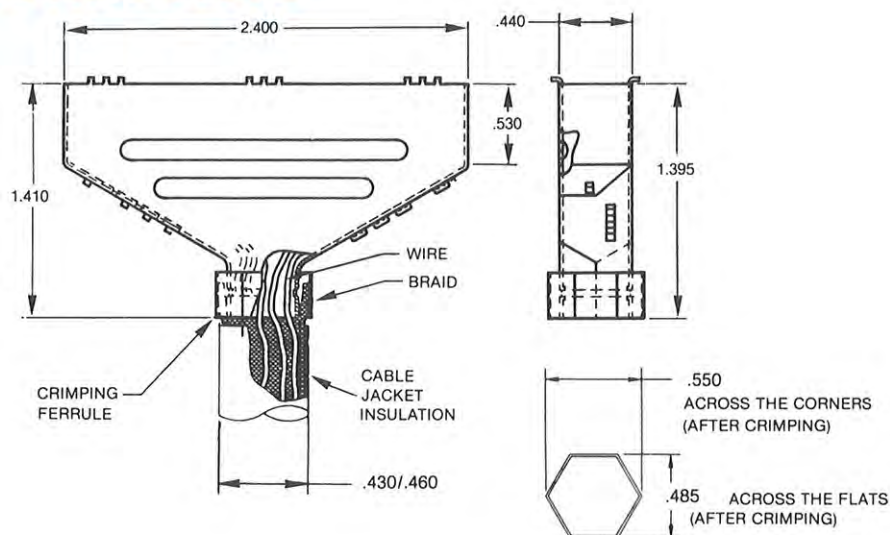
157-12500-10 (441) 157-12500-14 (441)

157-22500-14 (441) 157-42500 (441)

Use suffix "508" for connector & overmold hood combination kit, i.e., 157-12500-10-(508)

#### order information

Part Number: 157-1869-501

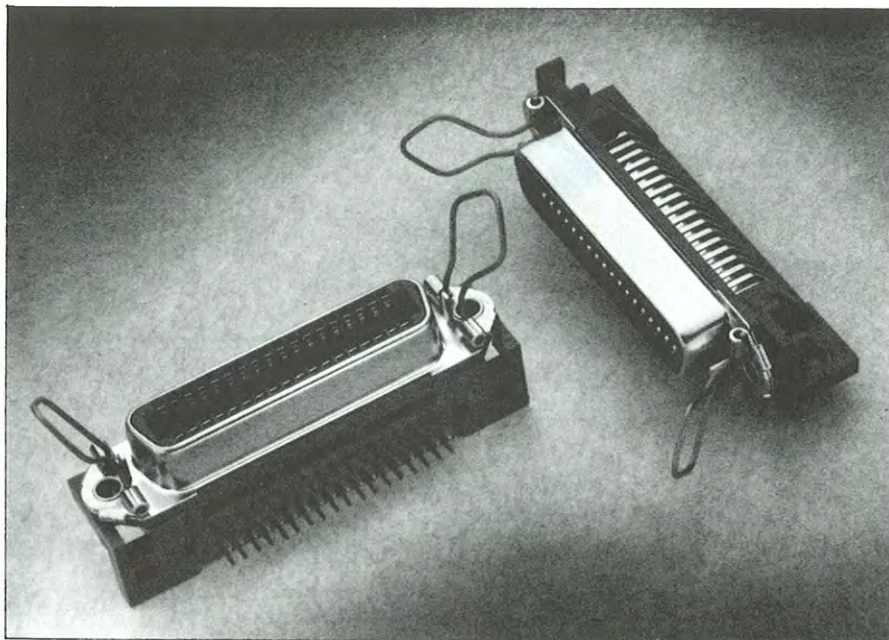


#### Assembly Instructions:

- 1.) Slide ferrule over the cable.
- 2.) Remove jacket insulation to appropriate length.
- 3.) Remove braid to appropriate length.
- 4.) Roll back braid over the jacket insulation.
- 5.) Terminate the connector.
- 6.) Assemble the overmold hoods.
- 7.) Roll back braid over the hoods.
- 8.) Slide ferrule over the braid such that the braid is sandwiched between the hood and ferrule.
- 9.) Crimp the ferrule.

## general configuration

### 57LE series, right angle PC mount



#### description

Compatible with both Amphenol 57 series solder-type and 157 series insulation displacement-type connectors, the Amphenol 57LE series comprises a family of all-plastic Micro-Ribbon connectors unique in its versatility. Versatility that results, in part, from a flexibility of configuration that enables you to obtain an EMI/RFI shielding capability through use of metal front shells.

#### features

- Intermateable with Amphenol 57 series (solder termination) and 157 series Micro-Pierce® (solderless termination) connectors.
- Ribbon contacts are captivated in the connector housing to provide repeated mating and unmating without displacement of contacts.
- Availability of right angle header allows use of mass termination technology from P/C board to equipment panels.
- UL94V-0 flammability rated material.
- Alternative plating for application flexibility.

#### general specifications

##### 57LE

|                                 |                             |
|---------------------------------|-----------------------------|
| Current capacity                | 3 amp per contact           |
| Voltage rating                  | 500V AC (RMS)               |
| Operating temperature           | -55°C to +105°C             |
| Contact resistance              | 35 MΩ max. at 1A DC         |
| Insulation resistance           | 1000 MΩ min. at 500V DC     |
| Dielectric withstanding voltage | 1200V AC (RMS) at sea level |
| Contacts                        | Selectively gold plated     |
| Dielectric                      | Polyester resin (UL 94V-0)  |
| Front Shell (57LE)              | Steel/nickel plating        |
| Spring latch                    | Stainless steel             |

The diagram on the left illustrates the assembly of the 57LE series connector. It shows a **PWB** (Printed Wiring Board) with a **Panel** mounted on it. A **57LE series** connector is shown being inserted into the panel. A **Cable Plug** is shown being inserted into the connector. The photograph on the right shows the **57LE series plastic with metal front-shell** connector, which is a long, narrow component with a metal front shell and a plastic body.

### dimensions

#### 57LE series

Technical drawings of the 57LE series actuator showing dimensions in inches (mm).

**Front View Dimensions:**

- Overall length:  $A \pm .008$  ( $A \pm 0.2$ )
- Overall width:  $B$
- Mounting bracket width:  $.126 \text{ DIA. } 2 \text{ PLCS.}$  ( $2 - \phi 3.2$ )
- Mounting bracket thickness:  $.130$  (3.3)
- Mounting bracket hole diameter:  $.174$  (4.4)
- Mounting bracket hole spacing:  $.470$  (11.93)
- Mounting bracket hole diameter:  $.573$  (14.5)

**Side View Dimensions:**

- Actuator body length:  $.086$  (2.16)
- Actuator body width:  $.026 \times .012$  ( $0.65 \times 0.3$ )
- Actuator body height:  $.188$  (4.75)
- Actuator body hole diameter:  $.321$  (8.13)
- Actuator body hole spacing:  $.618$  (15.88)
- Actuator body hole diameter:  $.169$  (4.29)

| Number of<br>Contacts | A    |       | B    |       | C     |       | D    |      |
|-----------------------|------|-------|------|-------|-------|-------|------|------|
|                       | In.  | mm    | In.  | mm    | In.   | mm    | In.  | mm   |
| 14                    | 1.42 | 36.00 | 1.73 | 44.00 | .510  | 12.96 | 1.40 | 35.5 |
| 24                    | 1.84 | 46.78 | 2.16 | 54.78 | .935  | 23.76 | 1.82 | 46.3 |
| 36                    | 2.35 | 59.74 | 2.67 | 67.74 | 1.446 | 36.72 | 2.33 | 59.2 |
| 50                    | 2.95 | 74.85 | 3.26 | 82.85 | 2.041 | 51.84 | 2.93 | 74.4 |

**57LE - 40XX 0 - X 7 O X X**

**Series No.**  
**57LE — Metallic Shell Type**

**Connector Type**  
**40 — Receptacle with Spring Latches**

**Number of Contacts**  
**14, 24, 36, 50**

**Keyed Shell**  
**0 — No Key**

**Contact Plating**  
 7 — Contact area 15 micro-inches gold over nickel, tail area tin lead  
 8 — Gold flash over nickel, tail area tin lead

**Ground Tab Option**  
 Blank — 4-40 UNC  
 D3 — 3.2mm hole  
 D12 — M3 thread  
 D29 — Boardlock (soldering tab)

**Dielectric Material Color**  
**O — Blue**  
**B — Black**

**Cover**  
**O — Less Cover**

**Tail Length**  
**7 — .188 (4.75mm)**

Panel Cut Out, Bottom Mounting  
(Thickness 1.6 MAX.)

## termination tooling

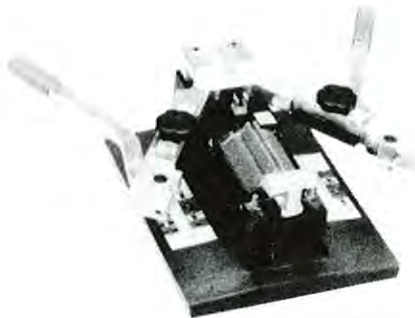
### **Insertion Tool No. 356-251**

The hand insertion/repair tool is designed for single wire termination into Amphenol 157 series connectors as well as for the opening and closing of cable clamps.



### **Tele-Pierce® Hand Tool No. 356-246**

This versatile bench mount tool is complete and ready for in-the-field termination of all types of running cable. It can be used as a low-volume production tool. Carrying case included.



### **Adapter Kit No. 356-247**

For use with No. 356-246 Tele-Pierce Hand Tool, this adapter kit allows termination of all types and sizes of top and side cable entry connectors as well as rack and panel connectors.

## termination tooling

### Electro-Pierce® Mark V Machine No. 359-429

The Electro-Pierce Mark V is a semi-automatic production tool for positioning and inserting cable one-pair-at-a-time into 157 series connectors. It features an internal micro-processor which controls all machine functions eliminating interconnecting cabling associated with external control units. Modularized design results in increased performance reliability and ease of maintenance. The Electro-Pierce Mark V can be programmed for termination of the complete line of 157 series connectors including 7, 12, 18, 25 and 32 wire pairs.

Also available for model "ACCU-PIERCE II"  
P/N 359-8157 for high volume manufacturing.



P/N 359-429



P/N 359-8157

### Pneumatic Crimp Tool (for overmold can) No. 358-408

Low cost pneumatic tool for hexagonal ferrule crimp. Lowers user installed cost on higher production applications. Crimp die No. 357-315-04 purchased separately.



### Hand Crimp Tool (for overmold can) No. 357-315

Economical hand tool for hexagonal ferrule crimp to cable and hood. Crimp die (No. 357-315-04) purchased separately.



### Crimp Die No. 357-315-04

Hexagonal crimp die for use with either hand crimp tool No. 357-315 or pneumatic crimp tool No. 358-408.



## connector hardware and accessories

### screws/nut

**57-1523-02** #4-40 x 3/8" long slotted round head taptite screw for use on cable clamp assembly.

**37-788-04** #2-56 NC-2A x 5/32" binding head machine screw with internal tooth lockwasher. Used to secure front and back shell on top and side cable entry connectors.

**57-1815-02** #4-40 x 5/8" long NC-2A fillister head screw, rolled head. Long screw used to lock mated pairs of running cable connectors such as: 57-10500-7; 57-20500-7; 157-72500-3; and 57-82500-3.

**34-1120** #3-48 NC2A x 5/16" long special screw for 57-60XXX connectors.

**41-333-3** #3-48 Elastic nut and washer for 57-60XXX connectors.

**57-1523-2P** Short screw for end cable entry type (pg. 17 & 19)

**57-1815-2P** Long screw for end cable entry type (pg. 17 & 19)

### latch

**57-1002-02** Spring latch. Wire locking device used on female connectors such as 57-40XXX and 57-60XXX connectors.

**57-1001-2** End disc. Retaining bracket for spring latch 57-1002-02.

**57-2035-2P** Spring latch for 57B series (pg. 9)

### hoods

**57-1030-2** Low profile hood (large 7/8" high) used on 57-10500-14 and 57-20500-7 connectors.

**57-1031-2** Low profile hood (small 5/8" high) used on 57-10500-7 and 57-20500-19 connectors.

**157-1836** Low profile plastic hood used on 157-79500-X and 157-89500-1 connectors, and connectors with deviation (431)

### dust cover

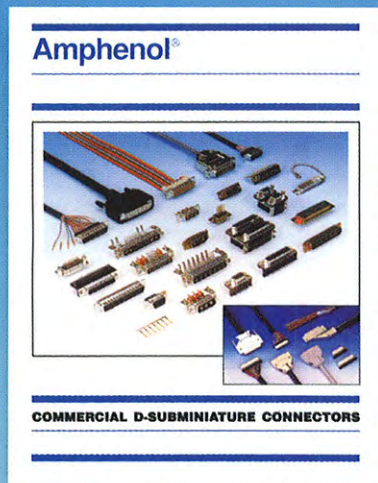
**57-1763** Dust cover for 50 contact male or female connectors.

## part number/page number index

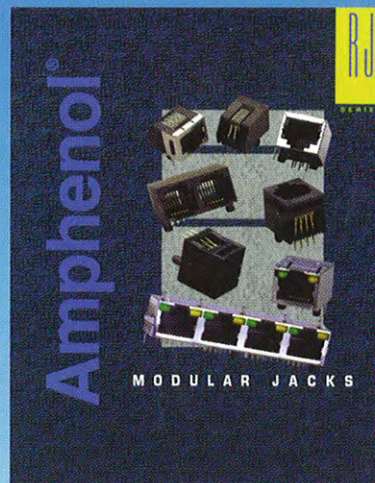
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| 41-0333-03        | 29   | 57-20140-10      | 7    | 57-40240-14        | 7     |
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| 57-1031-02        | 29   | 57-20240-08      | 7    | 57-40360-09        | 4     |
| 57-1523-02        | 29   | 57-20240-11      | 7    | 57-40360-12        | 7     |
| 57-1763           | 29   | 57-20240-14      | 7    | 57-40360-16        | 7     |
| 57-1815-02        | 29   | 57-20240-23      | 7    | 57-40360-21        | 8     |
| 57-1911-01        | 10   | 57-20240-24      | 8    | 57-40360-23        | 8     |
| 57-1912-02        | 10   | 57-20240-25      | 8    | 57-40360-24        | 7     |
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| 57-10140-05       | 7    | 57-20360-20      | 8    | 57-40500-26        | 8     |
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| 57-10240-03       | 7    | 57-20500         | 3    | 57-50240           | 4,6   |
| 57-10240-04       | 3    | 57-20500-06      | 3    | 57-50360           | 4,6   |
| 57-10240-05       | 7    | 57-20500-07      | 6    | 57-50500           | 4,6   |
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| 57-10500-14       | 6    | 57-33140-02      | 5    | 157-19500-02       | 19    |
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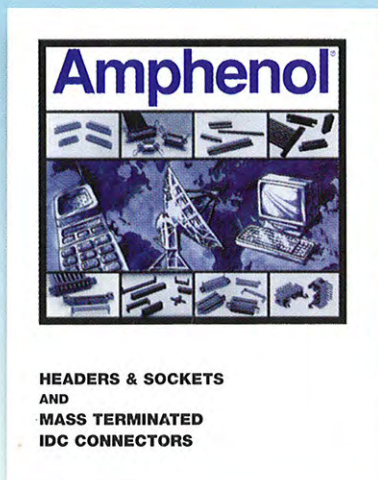
**D-Subminiature Connectors**



**RJ Modular Jacks**



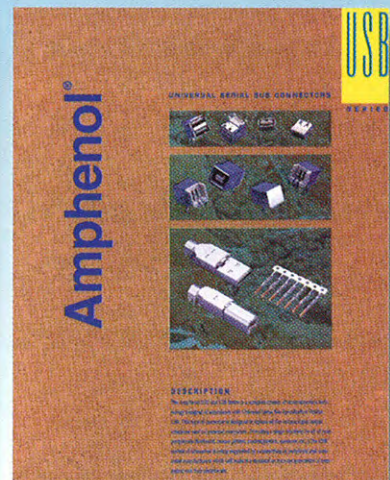
**FCC Filtered Connectors**



**Mass Terminated IDC Connections**



**DIN 41612 Circuit Board Connectors**



**Universal Serial Bus Connectors**

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Printed in Canada

CATALOGUE NR. ADT 0005/98-03