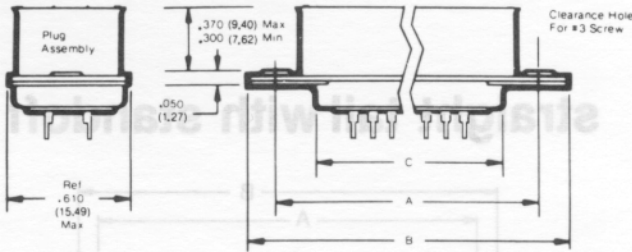
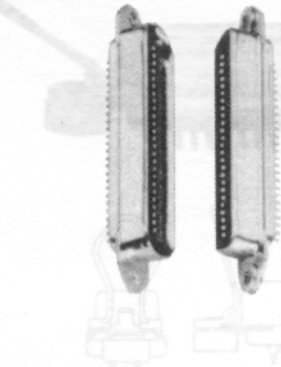


57 series printed circuit connectors

straight tail without spring latch



(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)

Items in bold print are popular, readily available parts.

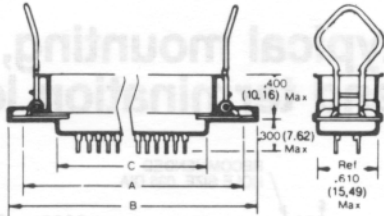
straight tail with spring latch



order information

Contacts	Receptacles/ PC Contacts With Spring Latch (.100" tail)	Receptacles/ PC Contacts With Spring Latch (.135" tail)	Receptacle PC Contacts With Spring Latch (.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

Items in bold print are popular, readily available parts.

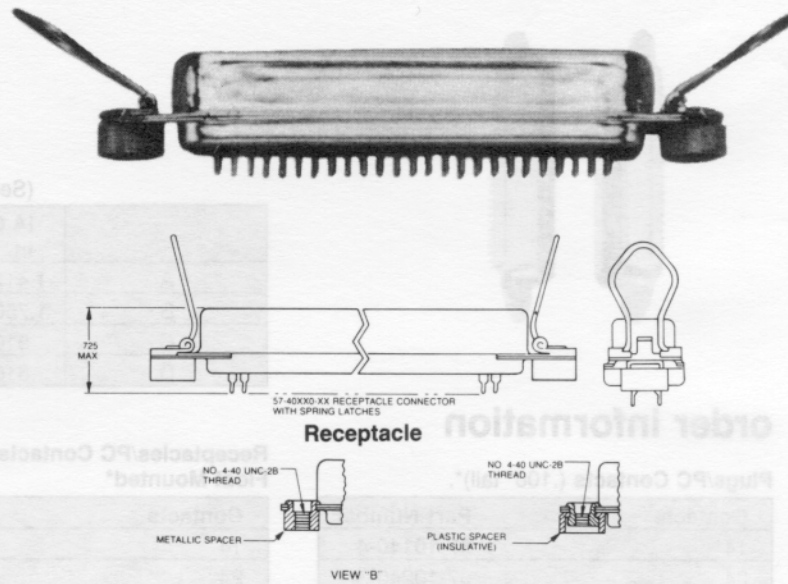
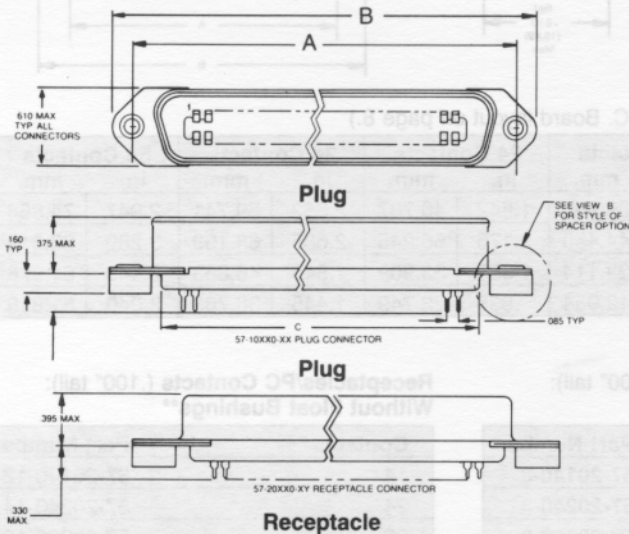


dimensions

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

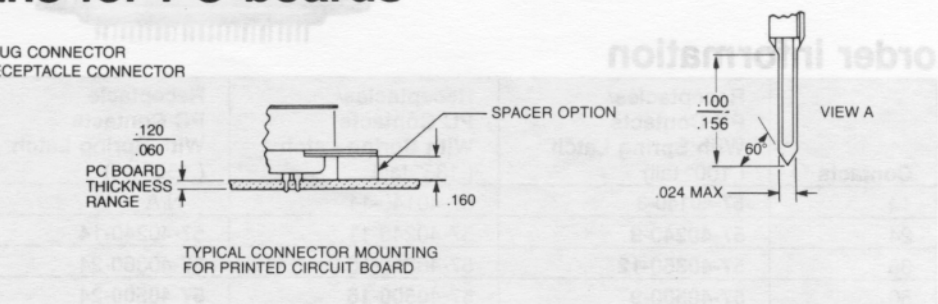
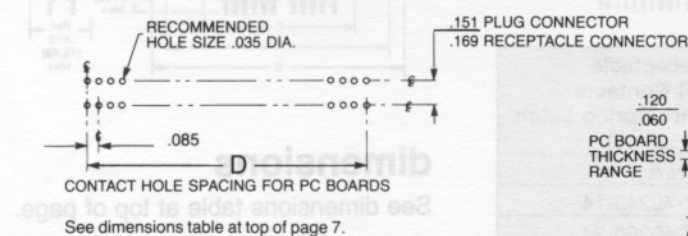
24	57-20240-24
36	57-20360-20
50	57-20500-79

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

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

Items in bold print are popular, readily available parts.

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



57 series right angle PCB mount receptacle



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.

specifications

Current rating:	5 amps/contact	Insulator material:	Reinforced thermo-plastic UL 94 V-O rated, black
Voltage rating:	700 VDC at sea level 200 VDC at 70,000 ft.	Contact material:	Beryllium Copper
Withstanding voltage:	1,000 VAC	Shell material:	Steel, Aluminum killed, Zinc plated with clear chromate finish
Insulation resistance:	1,000 Megaohms min.	Ground bracket:	Cold rolled Steel; bright Tin plated
Contact resistance:	15 Milliohms max.		
Operating temperature:	− 67 °F to + 221 °F (− 55 °C to + 105 °C)		

Contact plating:	30 microinches Gold in mating area, 100 microinches Tin/Lead on tails, 50 micro-inches Nickel underplate
Mounting plates:	Cold rolled Steel; Zinc plated with clear chromate finish

order information

Series

Tail Length /Mtg. Thd. Size /Connection Style

A = 0.125" / #6-32 thd. /spring latch

B = 0.187" / #6-32 thd. /spring latch

C = 0.125" / #4-40 thd. /spring latch

D = 0.187" / #4-40 thd. /spring latch

E = 0.125" / #6-32 thd. /jackscrew

F = 0.187" / #6-32 thd. /jackscrew

G = 0.125" / #4-40 thd. /jackscrew

H = 0.187" / #4-40 thd. /jackscrew

57-B X 50 X -XX X 00

Receptacle Style/Contact Material

B = standard "D" polarization/Beryllium Copper

D = reverse "D" polarization/Beryllium Copper

Ground Bracket Type

1 = #4-40 thd. extrusion

2 = P.C.B. locking tabs (.062 P.C.B.)

AM =

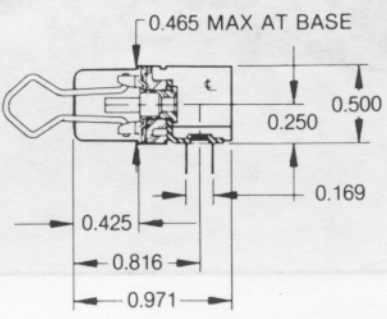
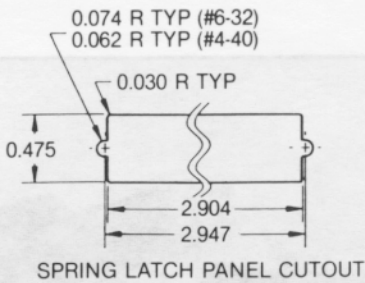
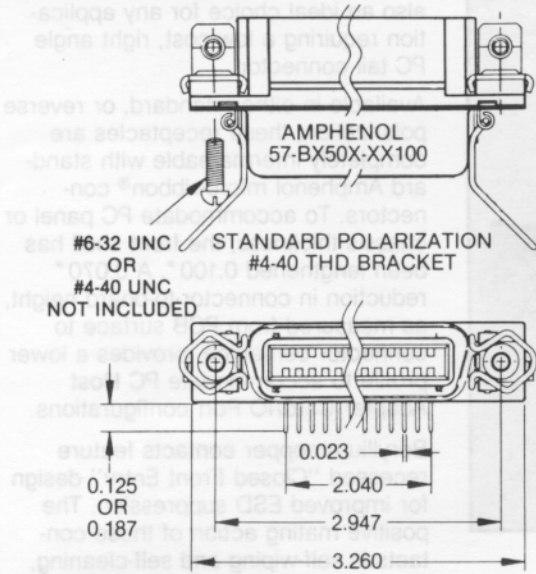
30 micro in. min Gold on mating area; 100 micro in. Tin/Lead on tails; 50 micro-in min Nickel underplate.

Items in bold print are popular, readily available parts. Consult factory for all others.

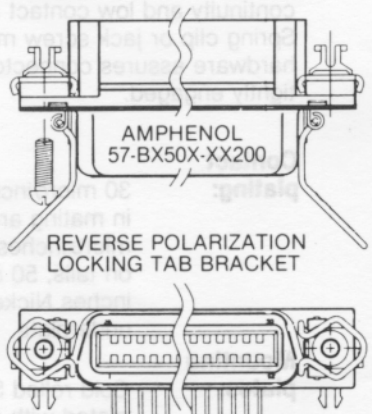
57 series right angle PCB mount receptacle (cont.)

receptacle with spring latch

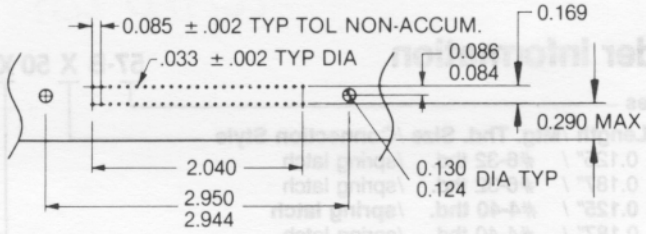
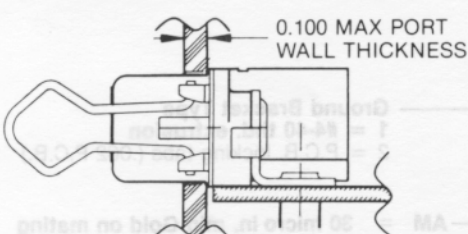
Standard Polarization



Reverse Polarization



mounting specifications



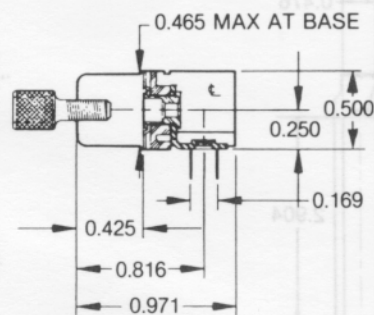
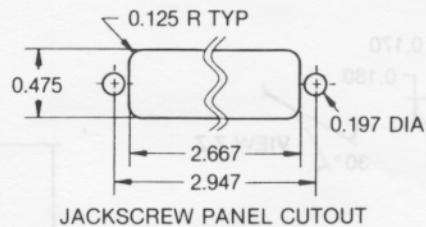
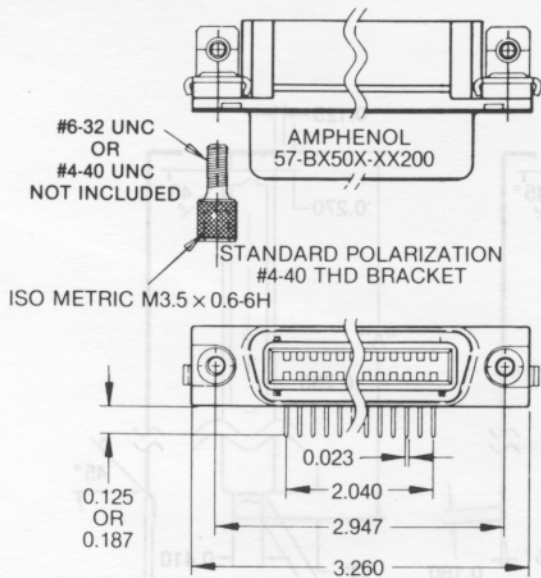
Mounting Hardware Supplied Separately
(20 screws per package—order by number of packages)

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

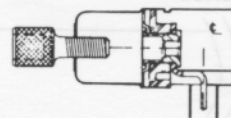
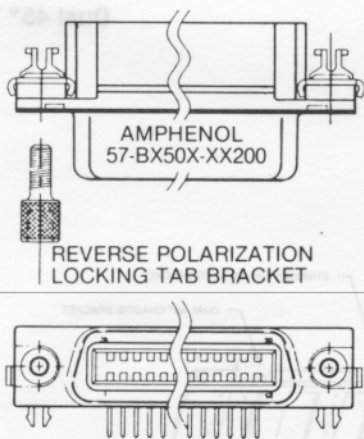
57 series right angle PCB mount receptacle (cont.)

receptacle with jack screw

Standard Polarization



Reverse Polarization

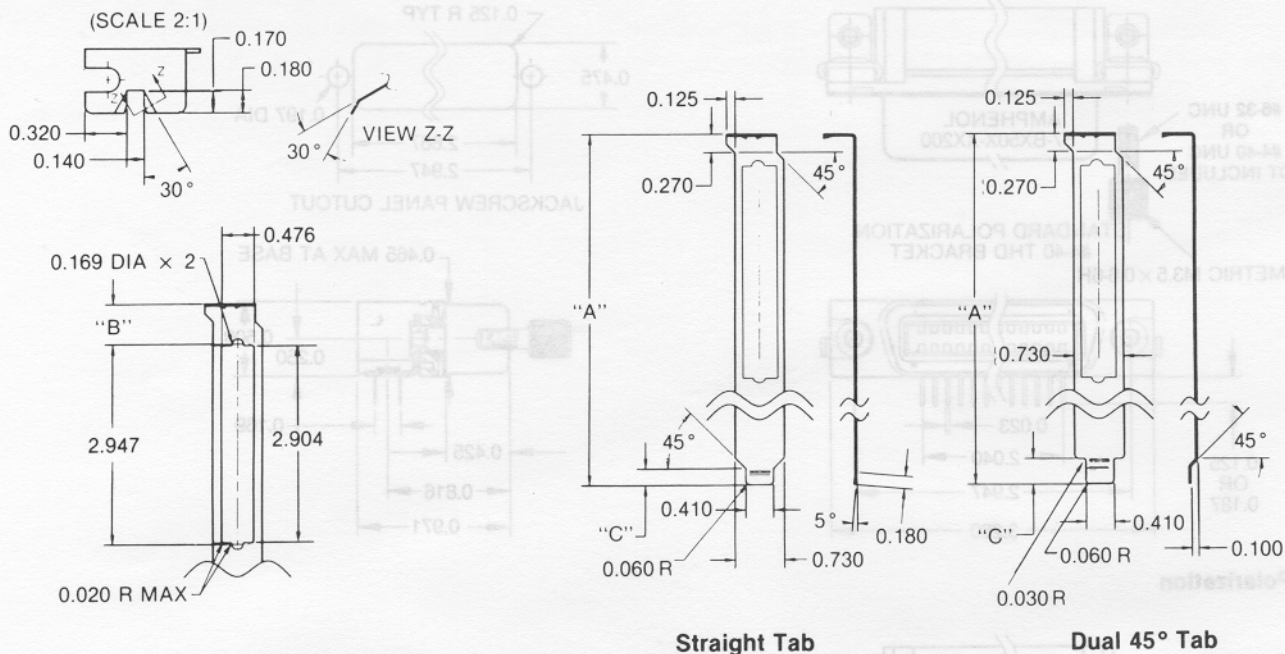


Item	Material	Standard Plating
Housing	Reinforced thermoplastic UL rated 94V-0, black	
Contacts	0.008" Beryllium Copper	30 microinches Gold mating area; 100 microinches Tin/Lead on tails; 50 microinches Nickel underplating
Shell	Cold rolled Steel Aluminum killed, deep draw quality	.0002-.0004" electrodeposited clear chromate over .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 .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



dimensions/order information

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

