

EATURES

- Low-pass (single-pole, capacitive) filtered contacts reduce inbound and outbound conducted EMI standard capacitance values of 50pF through 1,200pF.
- Saves space by incorporating required filter functions directly into footprint of I/O connector.
- Available as straight Solder Tail plug for solder termination to printed circuit board (nominal thickness through .093") and as plug/socket adapter, in 50-position size.
- All-plastic design reduces cost.
- All plugs lock with InstaLatch passive latch feature for automatic latching.
- Adapters available with InstaLatches, with Bail Latches, or with no latches on socket side.
- Available with through holes, #4-40 holes, #6-32 holes, or M3 holes for mounting/latching.

ATERIALS

insulator: Gray UL94V-0 rated glass-filled polyester

Contact: Copper alloy

Contact Plating: 30µin. select gold over 50µin. select nickel

standard; tin-lead on solder tails

Mounting Hardware Plating: Tin-lead

ironmental

Operating Temperature: -50°C to +105°C

Shock: 50G Peak, per EIA Std. RS364, TP27, Condition A **Vibration:** 3 cycles @ 10-55Hz in each of 3 axes per EIA Std.

364, TP28, Condition A

Moisture Resistance: Per EIA Std. RS364, TP31, Condition B,

with Step 7B excluded

ECTRICAL

Voltage Rating: 500VDC @ sea level

Contact Rating: 3 Amps RF Current Rating: 0.3 Amps

Leakage Current: 10mA maximum per contact when subjected to

1000 VAC test voltage, applied over 30 seconds and held for 60 seconds per FCC Part 68.5

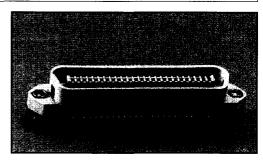
Voltage Surge: Withstands 1,500V peak longitudinal voltage surge with 10µsec. risetime, 160µsec. decay

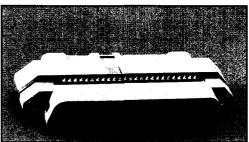
Contact Resistance: 6 milliohms maximum, per EIA Std. RS364, TP6

Insulation Resistance: 5000 Megohms minimum

Dissipation Factor: 5% maximum @ 25°C, 1kHz and

1 VAC RMS maximum





Insertion Loss: Capacitance	Insertion Loss, min. (dB, @ 25°C, @ 50 ohm, no load, per MIL-STD-220)						
@ 25°C, 1kHz, 1 VAC RMS max.	10MHz	30MHz	50MHz	70MHz	100MHz	500MHz	1GHz
50pF±15%	-	-	-	-	2	14	11
100pF±15%	-		-	-	3	14	11
220pF±15%	-	-	4	7	12	14	11
470pF±15%	-	5	11	14	20	14	11
820pF±15%	3	3	16	20	20	14	11
1,000pF±15%	3	3	16	20	20	14	11
1,200pF±15%	3	3	16	20	20	14	11

HANICA

Durability: 200 mating/unmating cycles

Mating / Unmating Forces:

Mating Force (max.) Unmating Force (min.) with InstaLatches without InstaLatches

 Size
 Lb.
 Kg
 Lb.
 Kg

 50
 32
 14.52
 7
 3.18

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6-48

.085 in. (2.16mm) Density Miniature Ribbon

Filtered Vertical-Mount Solder Tail and Male/Female Adapter

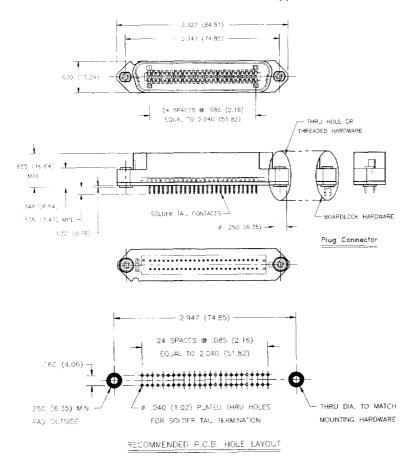


Filtered Vertical-Mount Solder Tail Plug

Vertical-mount Filtered Miniature Ribbon plugs provide filtered I/O directly from printed circuit boards, where the mating face of the connector is in a plane parallel to that of the board. Filtering keeps conducted EMI from passing between the system board and I/O cable.

The connector's filter must be grounded to the system at the mounting holes, via either top flange or through the lower standoff to a pad on the component side of the printed circuit board.

See page 6-51 for accessories such as dust covers and mounting screws that make the use of Cinch Filtered Miniature Ribbon connectors even more cost-effective in board-mount applications.



Ordering Information, Filtered Vertical-Mount Solder Tail Plug, 50 Position

	Capacitance	.144 Hole	#4-40 Hole	#6-32 Hole	M3 -0.5 Hole
	50pF±15%	CF97-50PB-TH	CF97-50PB-4T	CF97-50PB-6T	CF97-50PB-3T
0	100pF±15%	CF97-50PC-TH	CF97-50PC-4T	CF97-50PC-6T	CF97-50PC-3T
h or hole	220pF±15%	CF97-50PD-TH	CF97-50PD-4T	CF97-50PD-6T	CF97-50PD-3T
e d	470pF±15%	CF97-50PE-TH	CF97-50PE-4T	CF97-50PE-6T	CF97-50PE-3T
Through threader b	820pF±15%	CF97-50PF-TH	CF97-50PF-4T	CF97-50PF-6T	CF97-50PF-3T
Ė	1,000pF±15%	CF97-50PH-TH	CF97-50PH-4T	CF97-50PH-6T	CF97-50PH-3T
•	1,200pF±15%	CF97-50PJ-TH	CF97-50PJ-4T	CF97-50PJ-6T	CF97-50PJ-3T
	50pF±15%	Territoria de la seria. -	CF97-50PB-4B	CF97-50PB-6B	CF97-50PB-3B
	100pF±15%	-	CF97-50PC-4B	CF97-50PC-6B	CF97-50PC-3B
Threaded Boardlock	220pF±15%	-	CF97-50PD-4B	CF97-50PD-6B	CF97-50PD-3B
g g	470pF±15%	-	CF97-50PE-4B	CF97-50PE-6B	CF97-50PE-3B
hre	820pF±15%	-	CF97-50PF-4B	CF97-50PF-6B	CF97-50PF-3B
Ē	1,000pF±15%	-	CF97-50PH-4B	CF97-50PH-6B	CF97-50PH-3B
	1,200pF±15%	-	CF97-50PJ-4B	CF97-50PJ-6B	CF97-50PJ-3B

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Filtered Panel Mount Feedthrough Adapter

Filtered Ribbon Panel Mount Adapters provide filtered I/O in systems where internal cabling carries signals to the system panel.

By filtering right at the panel, EMI that could otherwise be generated over the length of the internal cable is prevented. The use of a plug/socket adapter also yields a benefit in serviceability. Should it ever be necessary to replace the filter, an adapter can be readily replaced without replacing a bulky, more expensive cable assembly.

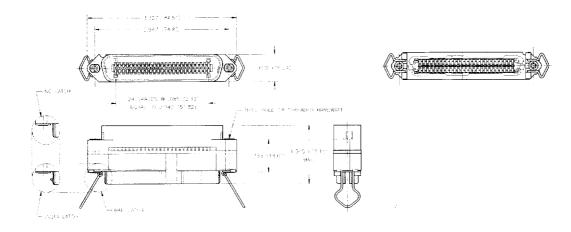
The adapter must be grounded to the system panel through the mounting hardware, which extends to both plug and socket flanges; thus, the adapter may be mounted with either side to the panel.

Adapters are also available without filter capacitors. Often referred to as "connector savers", these devices are most useful as "throw away" intermediate interconnects in applications where numerous mating/unmating cycles are required.

See page 6-51 for accessories such as bent bail latches, dust covers, and mounting screws that make the use of Cinch Miniature Ribbon Filtered Adapters even more cost-effective in panel mount-applications.

#6-32 Hole

M3 -0.5 Hole



Ordering Information, Filtered Adapter, 50 position

Canacitance

		Capacitance	#7-70 FIOIC	#O OE HOIC	1110 0.0 11010
		None (Connector Saver)	CF97-50AA-4T	CF97-50AA-6T	CF97-50AA-3T
Socket with Socket without InstaLatches latches		50pF±15%	CF97-50AB-4T	CF97-50AB-6T	CF97-50AB-3T
	חסר	100pF±15%	CF97-50AC-4T	CF97-50AC-6T	CF97-50AC-3T
	with sec	220pF±15%	CF97-50AD-4T	CF97-50AD-6T	CF97-50AD-3T
	atch	470pF±15%	CF97-50AE-4T	CF97-50AE-6T	CF97-50AE-3T
	- 50	820pF±15%	CF97-50AF-4T	CF97-50AF-6T	CF97-50AF-3T
		1,000pF±15%	CF97-50AH-4T	CF97-50AH-6T	CF97-50AH-3T
		1,200pF±15%	CF97-50AJ-4T	CF97-50AJ-6T	CF97-50AJ-3T
		None (Connector Saver)	CF97-50AA-4TI	CF97-50AA-6TI	CF97-50AA-3TI
		50pF±15%	CF97-50AB-4TI	CF97-50AB-6TI	CF97-50AB-3TI
	ith ies	100pF±15%	CF97-50AC-4TI	CF97-50AC-6TI	CF97-50AC-3TI
	at ch	220pF±15%	CF97-50AD-4TI	CF97-50AD-6TI	CF97-50AD-3TI
	g Çke	470pF±15%	CF97-50AE-4TI	CF97-50AE-6TI	CF97-50AE-3TI
	Sol	820pF±15%	CF97-50AF-4TI	CF97-50AF-6TI	CF97-50AF-3TI
		1,000pF±15%	CF97-50AH-4TI	CF97-50AH-6TI	CF97-50AH-3TI
		1,200pF±15%	CF97-50AJ-4TI	CF97-50AJ-6TI	CF97-50AJ-3TI
		None (Connector Saver)	CF97-50AA-4TB	CF97-50AA-6TB	CF97-50AA-3TB
Socket with Bail latches		50pF±15%	CF97-50AB-4TB	CF97-50AB-6TB	CF97-50AB-3TB
	es ⊒	100pF±15%	CF97-50AC-4TB	CF97-50AC-6TB	CF97-50AC-3TB
	tc ₹	220pF±15%	CF97-50AD-4TB	CF97-50AD-6TB	CF97-50AD-3TB
	\$ ∺	470pF±15%	CF97-50AE-4TB	CF97-50AE-6TB	CF97-50AE-3TB
	യ്യ	820pF±15%	CF97-50AF-4TB	CF97-50AF-6TB	CF97-50AF-3TB
		1,000pF±15%	CF97-50AH-4TB	CF97-50AH-6TB	CF97-50AH-3TB
		1,200pF±15%	CF97-50AJ-4TB	CF97-50AJ-6TB	CF97-50AJ-3TB

#4-40 Hole

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