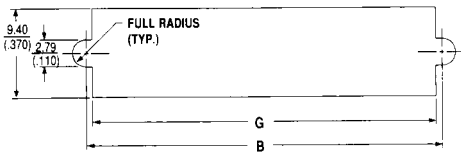


## APPLICATION INFORMATION

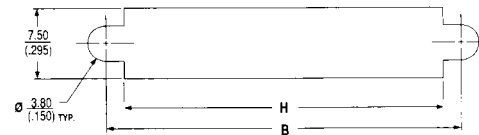
### RECOMMENDED BULKHEAD PANEL CUT-OUTS

NUMBER OF POSITIONS	PANEL CUT-OUT DIMENSION TABLE		
	B	G	H
26	31.2 (1.230)	29.8 (1.175)	27.6 (1.085)
40	40.1 (1.580)	38.7 (1.525)	36.5 (1.435)
50	46.5 (1.830)	45.1 (1.775)	42.8 (1.685)
60	52.8 (2.080)	51.4 (2.025)	49.2 (1.935)
68	57.9 (2.280)	56.5 (2.225)	54.2 (2.135)
80	65.5 (2.580)	64.1 (2.525)	61.8 (2.435)
100	78.2 (3.080)	76.8 (3.025)	74.5 (2.935)
120	90.9 (3.580)	89.5 (3.525)	49.2 (1.935)

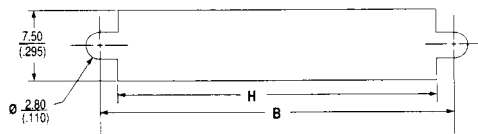
2-56 Cable Latch With Rails



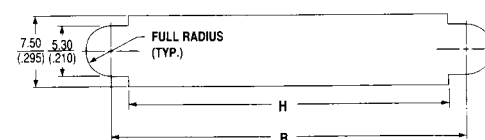
4-40 Flush



2-56 Cable Latch Without Rails



2-56 Cable Standoff

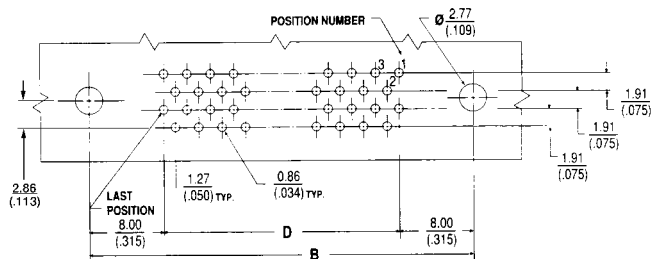


## APPLICATION INFORMATION

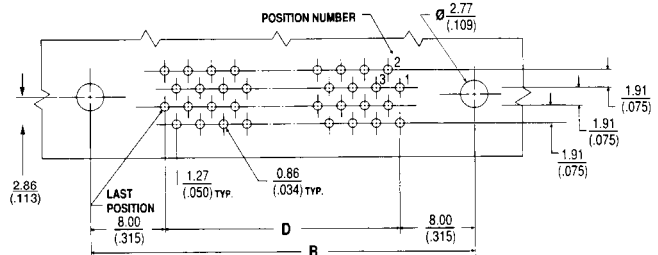
### RECOMMENDED PRINTED CIRCUIT BOARD LAYOUTS

NUMBER OF POSITIONS	BOARD LAYOUT DIMENSION TABLE	
	B	D
26	31.2 (1.230)	15.24 (.600)
40	40.1 (1.580)	24.13 (.950)
50	46.5 (1.830)	30.48 (1.200)
60	52.8 (2.080)	36.8 (1.450)
68	57.9 (2.280)	41.91 (1.650)
80	65.5 (2.580)	49.50 (1.950)
100	78.2 (3.080)	62.20 (2.450)
120	90.9 (3.580)	74.9 (2.950)

For 26 and 50 Position Parts



For 40, 60, 68, 80, 100, and 120 Position Parts



**DESCRIPTION/APPLICATION**

The Thomas & Betts .050" Fine Pitch "D" connector is ideally suited for desktop computers, peripherals, and other new generation equipment where space and weight are at a premium. Press-Fit .050" Fine Pitch "D" connectors are designed for high density backplane or motherboard applications.

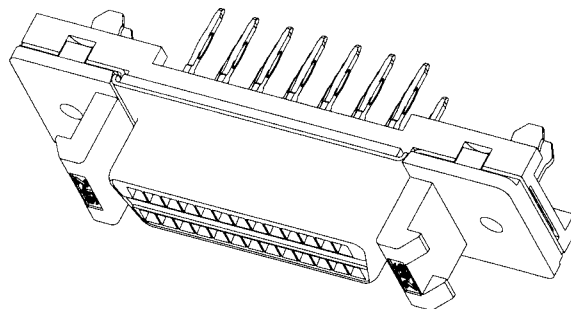
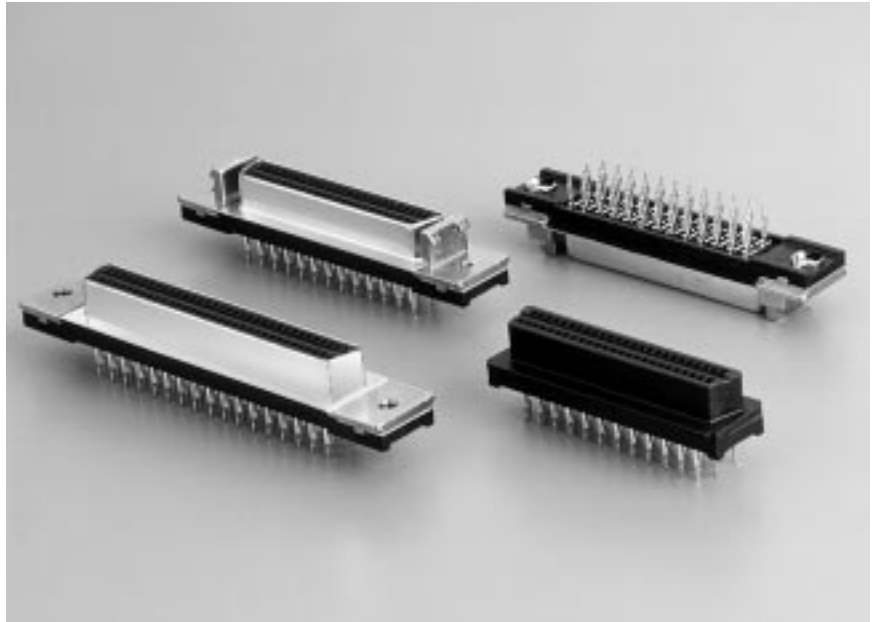
All Thomas & Betts Fine Pitch "D" connectors are compatible with the following industry standards:

- SCSI-2, 50 and 68 position fine pitch cable latch connectors
- SCSI-3, 68 position with flush 4-40 threaded inserts
- IPI-2, 50 pin and 100 pin
- RS232-E, 26 pin

**DESIGN ADVANTAGES**

- Available in metal shell and all plastic versions.
- Metal snap latches maintain ground screen to the PCB without soldering.
- Thomas & Betts compliant pin .050" Fine Pitch "D" connectors do not need special PCB insertion tools; "flat rock" type blocks are all that is required to install.
- High temperature rated plastic housing will not degrade during reflow soldering processes.
- Unique pin geometry allows for even distribution of forces reducing axial pin rotation and preserving perpendicularity to the PC board.

# COMPLIANT PIN PC BOARD MOUNT RECEPTACLES



## METAL SHELL .050" FINE PITCH "D" COMPLIANT PIN PCB MOUNT



### PHYSICAL PROPERTIES

CONTACT RETENTION TO PCB: 6.6 Kg/contact min.  
CONTACT MATING FORCE: 5.4 Kg/contact max.  
CONTACT UNMATING FORCE: .9 Kg/contact max.  
COMPLIANT PIN INSERTION FORCE INTO PCB: 30.8 Kg/contact max.  
COLOR: Black  
DURABILITY: 500 mating cycles per EIA-364-09A

### MATERIALS AND FINISHES

INSULATION HOUSING: High temperature glass filled polyester rated UL 94V-0  
CONTACT: High strength copper alloy, selectively plated 30µ" gold in contact area. 85/300µ" tin/lead solder plate over tail area. 50µ" min. nickel underplate overall  
SNAP LATCH: Tin plated high strength copper alloy  
MOUNTING BLOCK: Nickel plated zinc alloy  
METAL SHELL: Tin plated steel

### ELECTRICAL PROPERTIES

CURRENT RATING: 1 Ampere per isolated contact  
INSULATION RESISTANCE: >1000 Megohms  
DIELECTRIC STRENGTH: >1000 VDC (Sea Level)

### ENVIRONMENTAL PROPERTIES

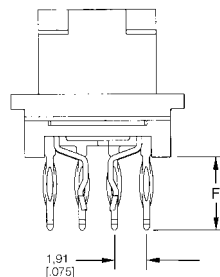
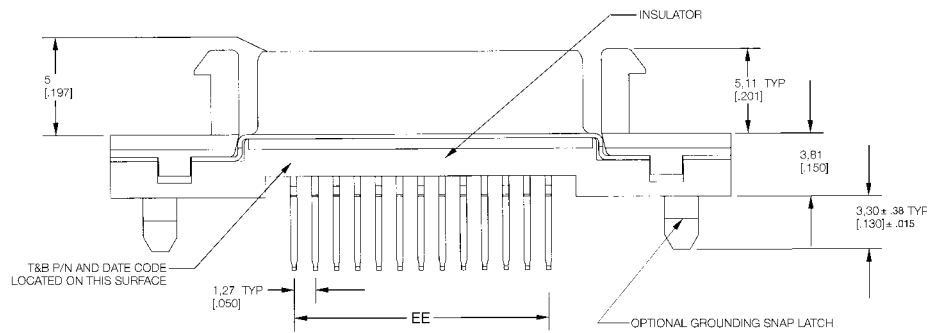
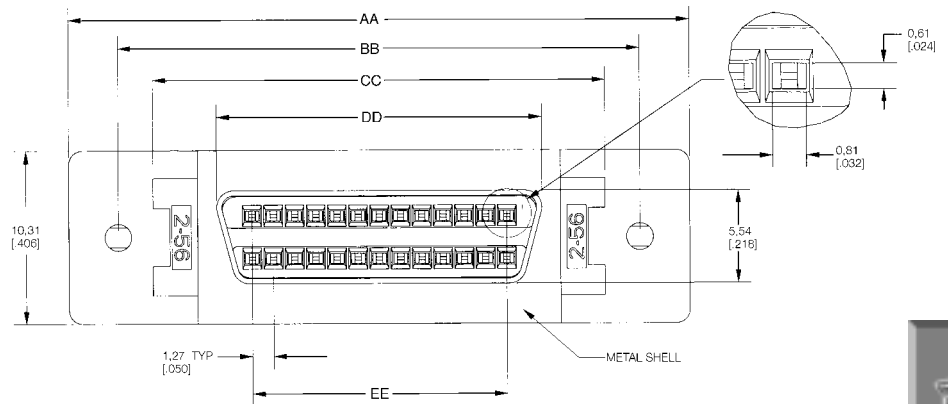
TEMPERATURE RATING: -55° C to +125° C  
TEMPERATURE CYCLING: EIA-364-32A  
VIBRATION: EIA-364-28A

### DRAWING NUMBER: 1305116

### PRODUCT SPECIFICATION: PFS-1013

### MOUNTING HARDWARE (sold separately)

**Jacksocket Kit**  
Catalog Number: 8700040001  
(for mounting style "C")  
Kit includes:  
— 2 Jacksockets (shown above)  
— 2 Split Lockwashers



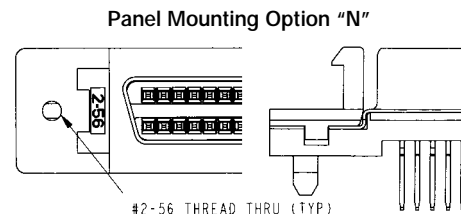
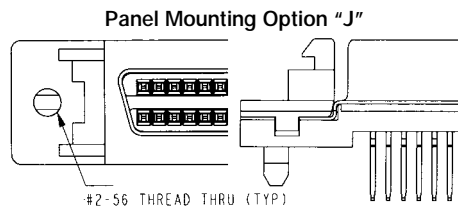
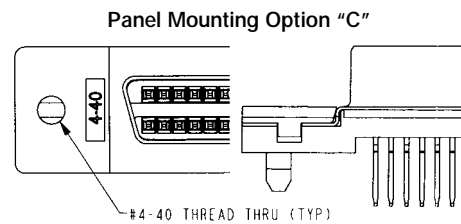
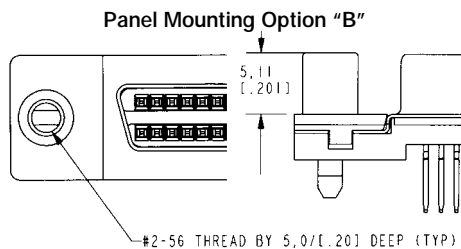
F	TAIL LENGTH
1	4,39 [.173]
2	7,11 [.280]

PANEL CUTOUT: See page 4  
PCB HOLE PATTERN: See page 4

## Metal Shell Ordering Information

BULKHEAD MOUNTING STYLE	SIZE	DIMENSIONS					CATALOG NUMBER			
		AA	BB	CC	DD	EE	WITHOUT PCB SNAPLATCH TAIL LENGTH = 4,39 [.173]	WITH PCB SNAPLATCH	WITHOUT PCB SNAPLATCH TAIL LENGTH = 7,11 [.280]	WITH PCB SNAPLATCH
2-56 Stand-Off	26	37.2 [1.465]	31.2 [1.230]	27.1 [1.065]	19.5 [.766]	15.2 [.600]	HFR026PF29B1	HFR026PF29BS1	HFR026PF29B2	HFR026PF29BS2
4-40 Flush							HFR026PF29C1	HFR026PF29CS1	HFR026PF29C2	HFR026PF29CS2
2-56 Cable Latch with Rails							HFR026PF29J1	HFR026PF29JS1	HFR026PF29J2	HFR026PF29JS2
2-56 Cable Latch w/o Rails							HFR026PF29N1	HFR026PF29NS1	HFR026PF29N2	HFR026PF29NS2
2-56 Stand-Off	40	46.1 [1.815]	40.1 [1.580]	35.9 [1.415]	28.3 [1.116]	24.1 [.950]	HFR040PF29B1	HFR040PF29BS1	HFR040PF29B2	HFR040PF29BS2
4-40 Flush							HFR040PF29C1	HFR040PF29CS1	HFR040PF29C2	HFR040PF29CS2
2-56 Cable Latch with Rails							HFR040PF29J1	HFR040PF29JS1	HFR040PF29J2	HFR040PF29JS2
2-56 Cable Latch w/o Rails							HFR040PF29N1	HFR040PF29NS1	HFR040PF29N2	HFR040PF29NS2
2-56 Stand-Off	50	52.5 [2.065]	46.5 [1.830]	42.3 [1.665]	34.7 [1.366]	30.5 [1.200]	HFR050PF29B1	HFR050PF29BS1	HFR050PF29B2	HFR050PF29BS2
4-40 Flush							HFR050PF29C1	HFR050PF29CS1	HFR050PF29C2	HFR050PF29CS2
2-56 Cable Latch with Rails							HFR050PF29J1	HFR050PF29JS1	HFR050PF29J2	HFR050PF29JS2
2-56 Cable Latch w/o Rails							HFR050PF29N1	HFR050PF29NS1	HFR050PF29N2	HFR050PF29NS2
2-56 Stand-Off	68	63.9 [2.515]	57.9 [2.280]	53.7 [2.115]	46.1 [1.816]	41.9 [1.650]	HFR068PF29B1	HFR068PF29BS1	HFR068PF29B2	HFR068PF29BS2
4-40 Flush							HFR068PF29C1	HFR068PF29CS1	HFR068PF29C2	HFR068PF29CS2
2-56 Cable Latch with Rails							HFR068PF29J1	HFR068PF29JS1	HFR068PF29J2	HFR068PF29JS2
2-56 Cable Latch w/o Rails							HFR068PF29N1	HFR068PF29NS1	HFR068PF29N2	HFR068PF29NS2
2-56 Stand-Off	80	71.5 [2.815]	65.6 [2.580]	61.3 [2.415]	53.7 [2.116]	49.5 [1.950]	HFR080PF29B1	HFR080PF29BS1	HFR080PF29B2	HFR080PF29BS2
4-40 Flush							HFR080PF29C1	HFR080PF29CS1	HFR080PF29C2	HFR080PF29CS2
2-56 Cable Latch with Rails							HFR080PF29J1	HFR080PF29JS1	HFR080PF29J2	HFR080PF29JS2
2-56 Cable Latch w/o Rails							HFR080PF29N1	HFR080PF29NS1	HFR080PF29N2	HFR080PF29NS2
2-56 Stand-Off	100	84.2 [3.315]	78.2 [3.080]	74.0 [2.915]	66.4 [2.616]	62.2 [2.450]	HFR100PF29B1	HFR100PF29BS1	HFR100PF29B2	HFR100PF29BS2
4-40 Flush							HFR100PF29C1	HFR100PF29CS1	HFR100PF29C2	HFR100PF29CS2
2-56 Cable Latch with Rails							HFR100PF29J1	HFR100PF29JS1	HFR100PF29J2	HFR100PF29JS2
2-56 Cable Latch w/o Rails							HFR100PF29N1	HFR100PF29NS1	HFR100PF29N2	HFR100PF29NS2

## BULKHEAD MOUNTING OPTIONS

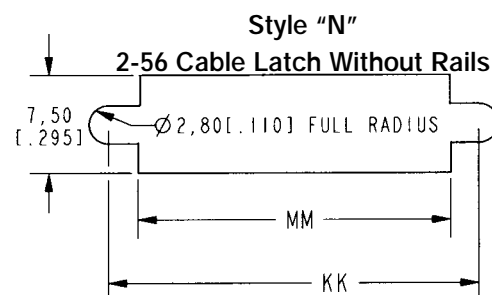
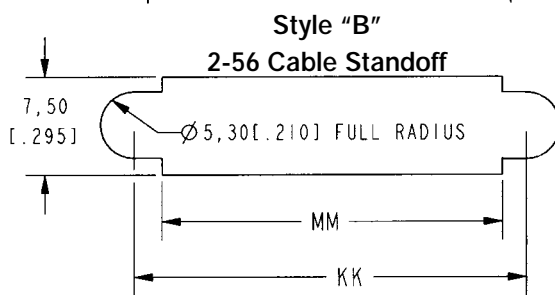
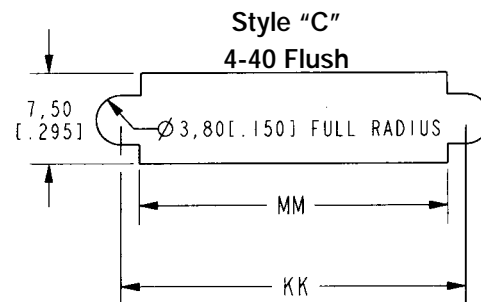
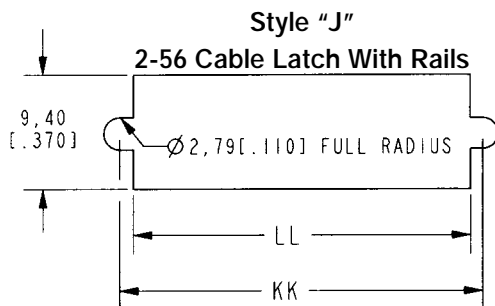
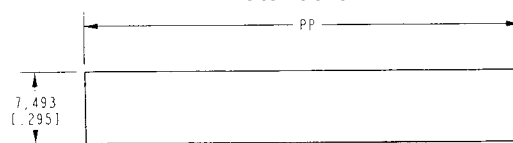


# APPLICATION INFORMATION

## RECOMMENDED BULKHEAD PANEL CUT-OUTS

NUMBER OF POSITIONS	PANEL CUT-OUT DIMENSION TABLE			
	KK	LL	MM	PP
26	31,2 [1.230]	29,8 [1.175]	27,6 [1.085]	20,0 [0.786]
40	40,1 [1.580]	38,7 [1.525]	36,5 [1.435]	28,9 [1.136]
50	46,5 [1.830]	45,1 [1.775]	42,8 [1.685]	35,2 [1.386]
68	57,9 [2.280]	56,5 [2.225]	54,2 [2.135]	46,6 [1.836]
80	65,5 [2.580]	64,1 [2.525]	61,8 [2.435]	54,3 [2.136]
100	78,2 [3.080]	76,8 [3.025]	74,5 [2.935]	67,0 [2.636]

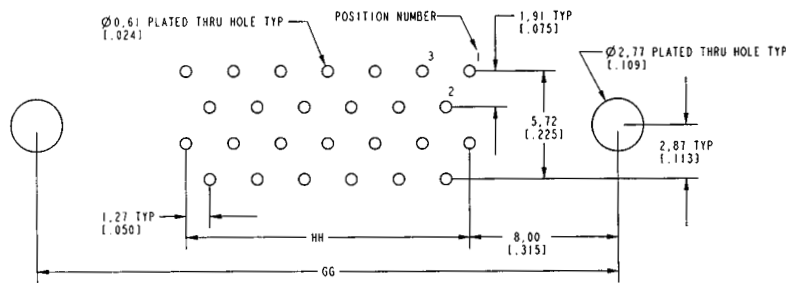
No Ears  
Standard



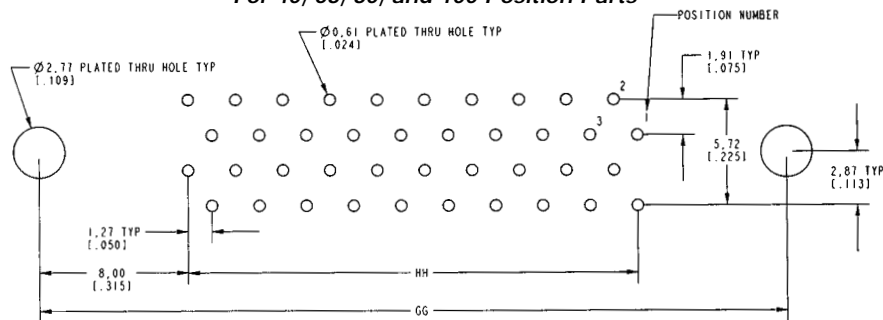
# APPLICATION INFORMATION

## RECOMMENDED PRINTED CIRCUIT BOARD LAYOUTS

### For 26 and 50 Position Parts

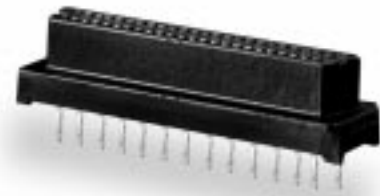


### For 40, 68, 80, and 100 Position Parts



NUMBER OF POSITIONS	BOARD LAYOUT DIMENSION TABLE	
	GG	HH
26	31.2 [1.230]	15.24 [.600]
40	40.1 [1.580]	24.13 [.950]
50	46.5 [1.830]	30.48 [1.200]
68	57.9 [2.280]	41.91 [1.650]
80	65.5 [2.580]	49.50 [1.950]
100	78.2 [3.080]	62.20 [2.450]

**ALL PLASTIC SHELL  
.050" FINE PITCH  
COMPLIANT PIN PCB MOUNT**



**PHYSICAL PROPERTIES**

CONTACT RETENTION TO PCB: 6.6 Kg/contact min.  
CONTACT MATING FORCE: 5.4 Kg/contact max.  
CONTACT UNMATING FORCE: .9 Kg/contact max.  
COMPLIANT PIN INSERTION FORCE INTO PCB: 30.8 Kg/contact max.  
COLOR: Black  
DURABILITY: 500 mating cycles per EIA-364-09A

**MATERIALS AND FINISHES**

INSULATION HOUSING: High temperature glass filled polyester rated UL 94V-0  
CONTACT: High strength copper alloy, selectively plated 30µ" gold in contact area. 85/300µ" tin/lead solder plate over tail area. 50µ" min. nickel underplate overall  
MOUNTING BLOCK: Nickel plated zinc alloy

**ELECTRICAL PROPERTIES**

CURRENT RATING: 1 Ampere per isolated contact  
INSULATION RESISTANCE: >1000 Megohms  
DIELECTRIC STRENGTH: >1000 VDC (Sea Level)

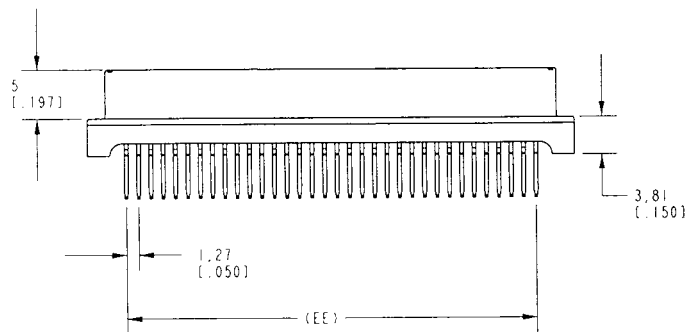
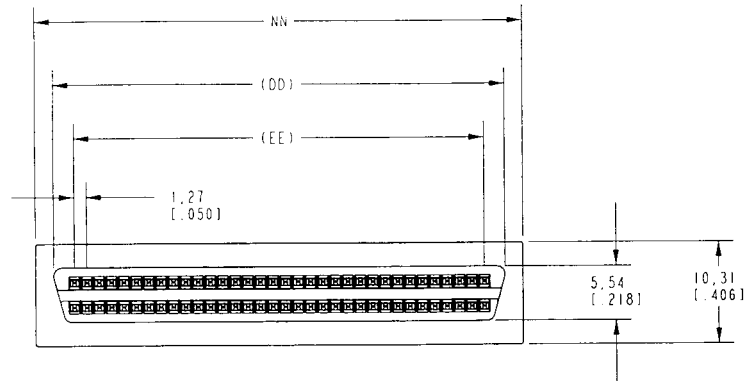
**ENVIRONMENTAL PROPERTIES**

TEMPERATURE RATING: -55° C to +125° C  
TEMPERATURE CYCLING: EIA-364-32A  
VIBRATION: EIA-364-28A

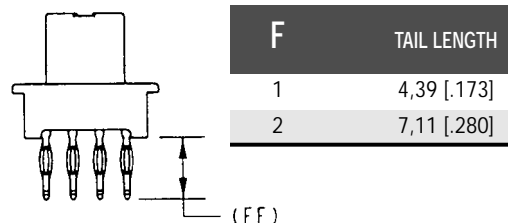
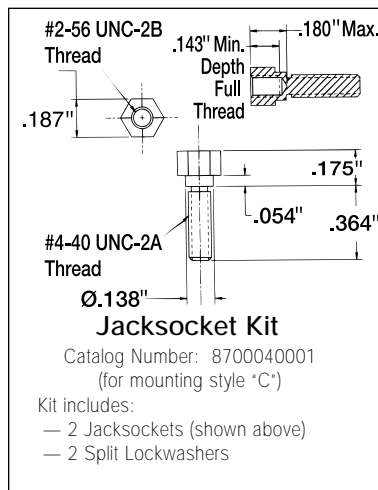
**DRAWING NUMBER: 1305117**

**PRODUCT SPECIFICATION: PFS-1013**

**MOUNTING HARDWARE** (sold separately)



NOTE: All plastic .050" Fine Pitch connectors are available with mounting holes and cable latches. Dimensions are the same as .050" Fine Pitch metal shell connectors. Please refer to drawings on page 2 for bulkhead mounting configurations.



PANEL CUTOUT: See page 4  
PCB HOLE PATTERN: See page 4