

.100" [2.54] CENTERLINE  
.049" [1.25] CENTERLINE  
.039" [1.00] CENTERLINE  
PCB SERIES

## INTRODUCTION:

Adam Tech PCB Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are a LIF (low insertion force) design that provides a low cost, fast, easy and reliable connection of flexible printed circuits to a PCB. Adam Tech's special contact design preserves conductor integrity while producing a stable, high pressure connection. This series includes single and dual row versions in .039", .049" and .100" centerlines with vertical or horizontal orientations.

## FEATURES:

Superior contact design protects conductors  
High pressure contacts  
Single or dual row versions  
Choice of .039", .049" and .100" centerlines

## MATING FPC & FFC CABLE:

Mates with flat flexible cable and flexible printed circuits with thickness of 0.3mm

## Specifications:

### Material:

Standard insulator: PBT, Glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator color: Black  
Contacts: Phosphor Bronze

### Contact Plating:

Tin over copper underplate

### Electrical:

Operating voltage: 100V AC max.  
Current rating: .039" Spacing: 0.5 Amp max.  
.049" Spacing: 1 Amp max  
.100" Spacing: 3 Amps max  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 500 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:

Insertion Force: 5 oz max  
Withdrawal Force: 3 oz min

### Temperature Rating:

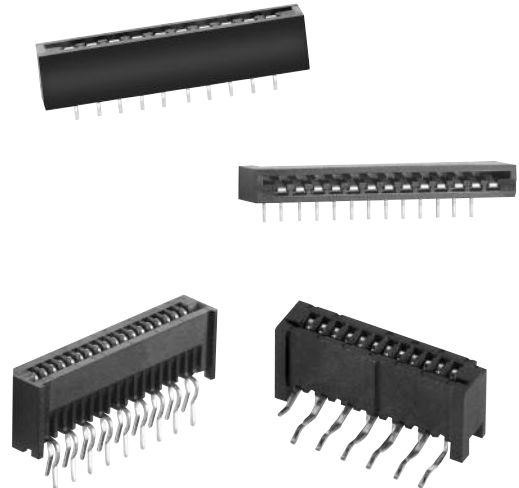
Operating temperature: -40°C to +85°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

## PACKAGING:

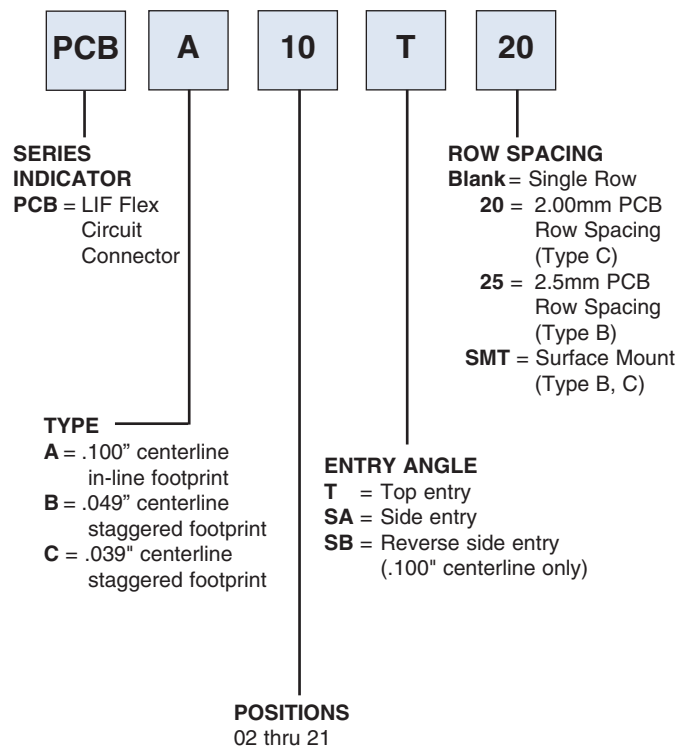
Anti-ESD plastic tubes or trays

## APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053  
CSA Certified File No. LR1578596



## ORDERING INFORMATION

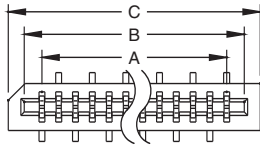


## OPTIONS

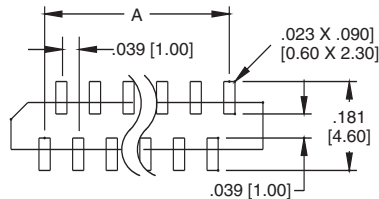
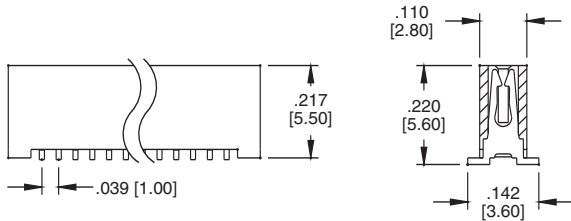
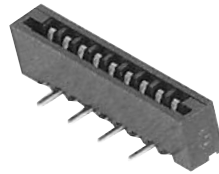
Add designator(s) to end of part number  
HT= Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

### PCB-C

.039" (1.00) TOP ENTRY SMT



PCB-C-09-T-SMT

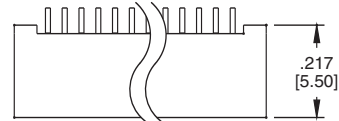


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

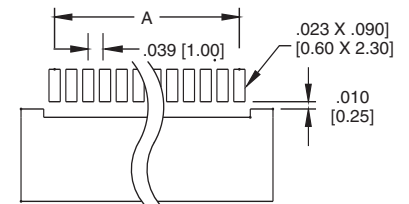
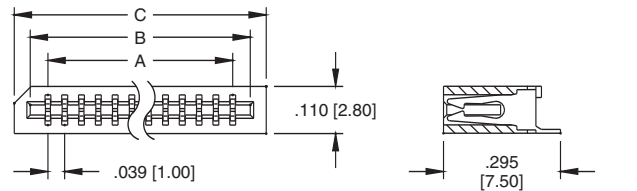
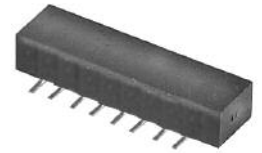
Recommended PCB Layout

### PCB-C

.039" (1.00) SIDE ENTRY SMT



PCB-C-08-SA-SMT

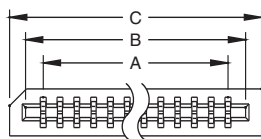


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

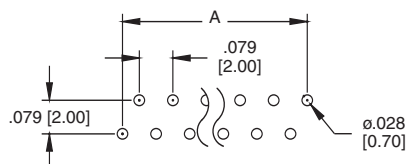
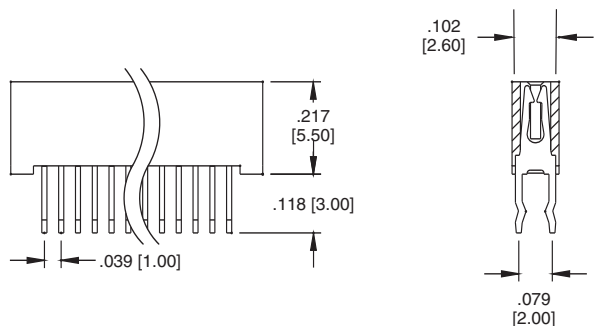
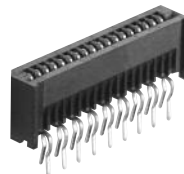
Recommended PCB Layout

### PCB-C

.039" (1.00) TOP ENTRY THRU HOLE



PCB-C-18-T-20

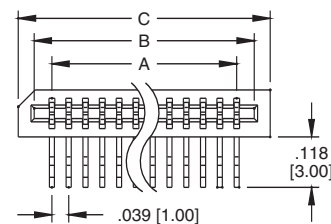


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

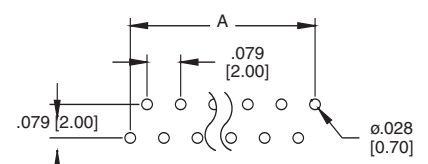
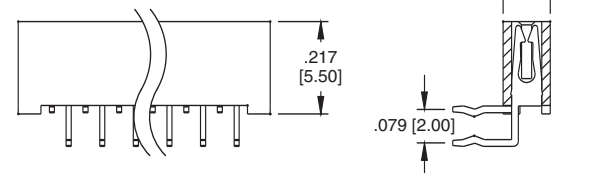
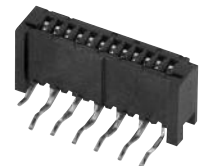
Recommended PCB Layout

### PCB-C

.039" (1.00) SIDE ENTRY THRU HOLE



PCB-C-12-SA-20

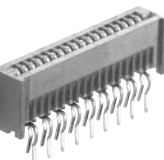
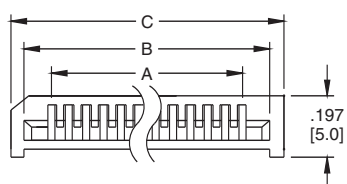


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

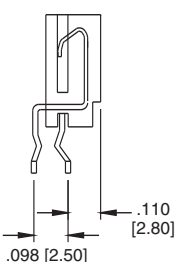
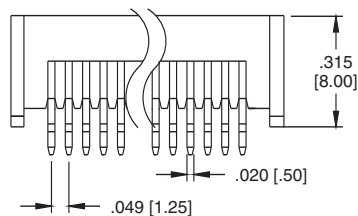
Recommended PCB Layout

## PCB-B

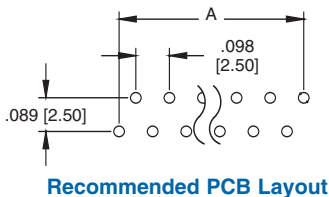
### .049"(1.25) TOP ENTRY THRU HOLE



PCB-B-18-T-25



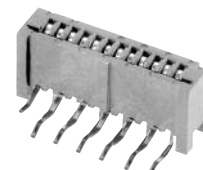
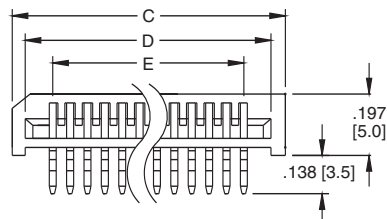
$$\begin{aligned} A &= .049 [1.25] \times \text{No. of Spaces} \\ B &= A + .098 [2.50] \\ C &= A + .197 [5.00] \end{aligned}$$



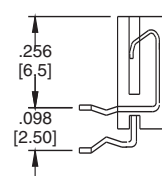
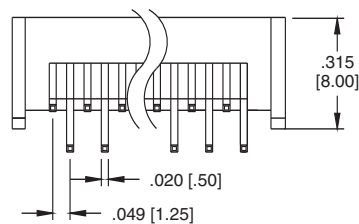
Recommended PCB Layout

## PCB-B

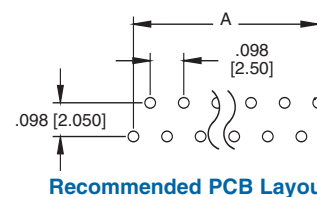
### .049"(1.25) SIDE ENTRY THRU HOLE



PCB-B-12-SA-25



$$\begin{aligned} A &= .049 [1.25] \times \text{No. of Spaces} \\ B &= A + .098 [2.50] \\ C &= A + .197 [5.00] \end{aligned}$$



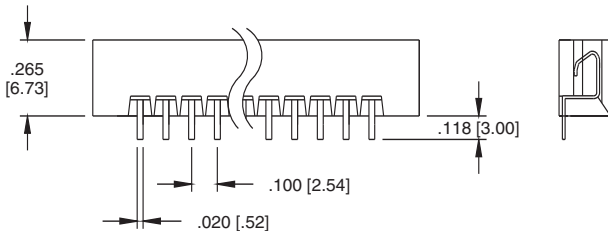
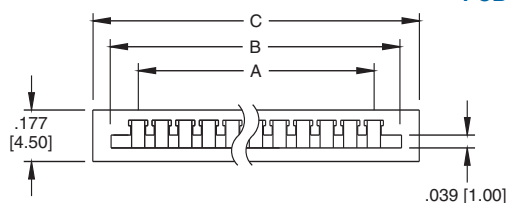
Recommended PCB Layout

## PCB-A

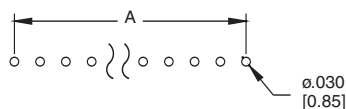
### .100"(2.54) TOP ENTRY INLINE THRU HOLE



PCB-A-10-T



$$\begin{aligned} A &= .100 [2.54] \times \text{no. of Spaces} \\ B &= A + .232 [5.90] \\ C &= A + .315 [8.00] \end{aligned}$$



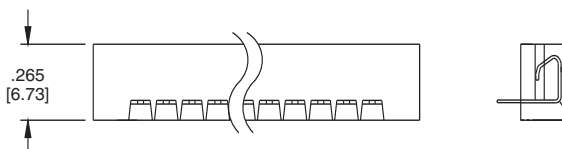
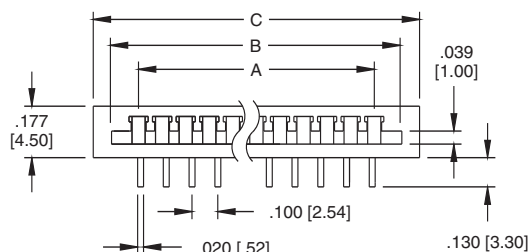
Recommended PCB Layout

## PCB-A

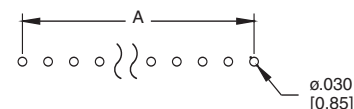
### .100"(2.54) SIDE ENTRY INLINE THRU HOLE



PCB-A-13-SA



$$\begin{aligned} A &= .100 [2.54] \times \text{no. of Spaces} \\ B &= A + .232 [5.90] \\ C &= A + .315 [8.00] \end{aligned}$$



Recommended PCB Layout