

2.54mm [.100"] CENTERLINE

1.25mm [.049"] CENTERLINE

1.00mm [.039"] CENTERLINE

0.50mm [.020"] 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 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines with vertical or horizontal orientations.

### FEATURES:

Superior contact design protects conductors  
High pressure contacts  
Single or dual row versions  
Choice of 2.54mm, 1.25mm, 1.00mm & 0.50mm 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:

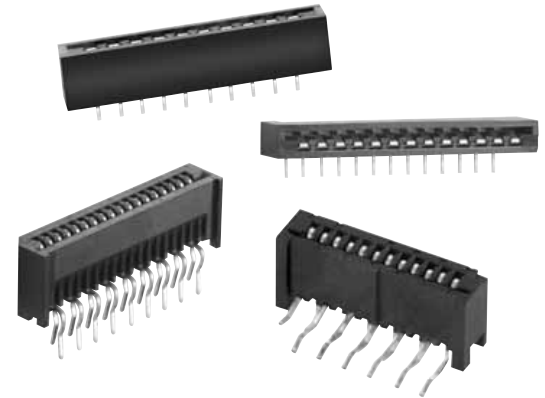
Operating temperature: -40°C to +85°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

#### PACKAGING:

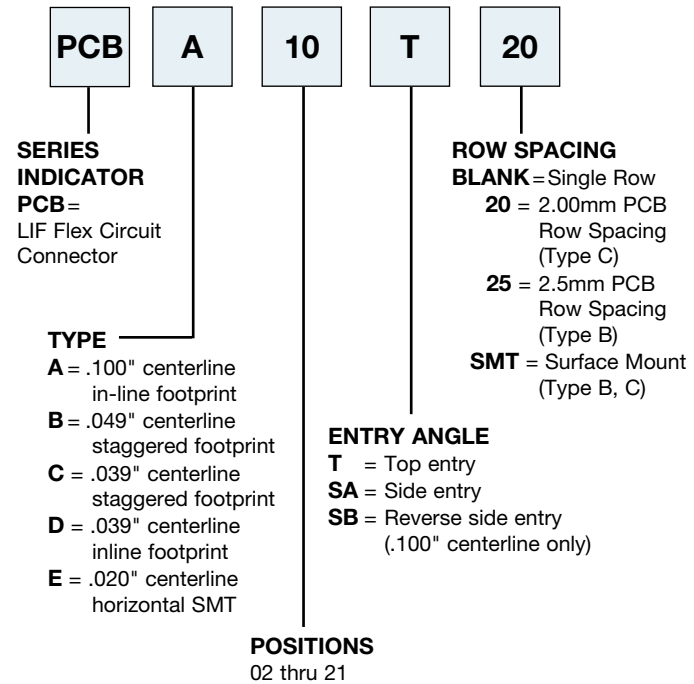
Anti-ESD plastic tubes or trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



### ORDERING INFORMATION

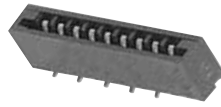


#### OPTIONS

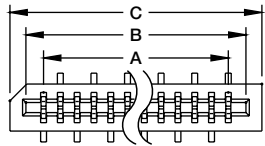
Add designator(s) to end of part number  
HT= Hi-Temp insulator for Hi-Temp soldering processes up to 260°C



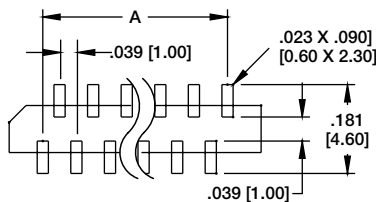
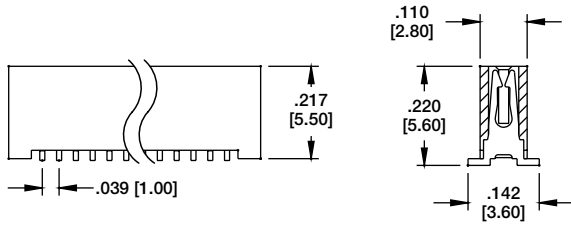
**PCB-C**  
1.00 (.039") TOP ENTRY SMT



**PCB-C-09-T-SMT**



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

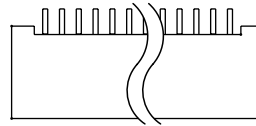


**Recommended PCB Layout**

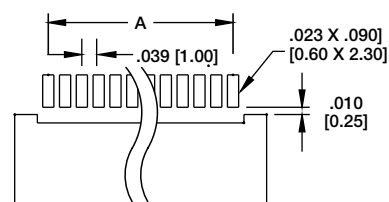
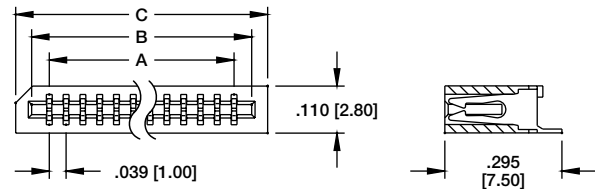
**PCB-C**  
1.00 (.039") SIDE ENTRY SMT



**PCB-C-18-SA-SMT**



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

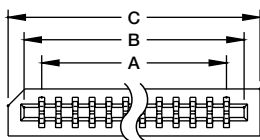


**Recommended PCB Layout**

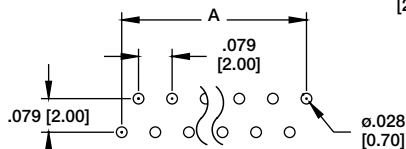
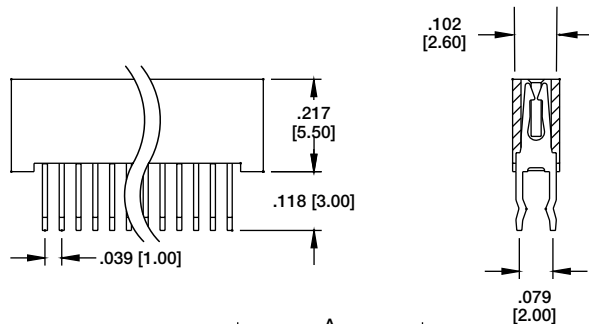
**PCB-C**  
1.00 (.039") TOP ENTRY THRU HOLE



**PCB-C-18-T-20**

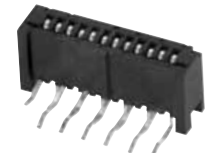


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

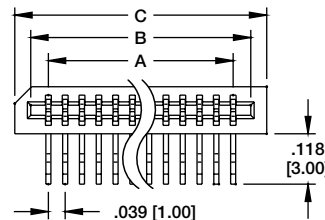


**Recommended PCB Layout**

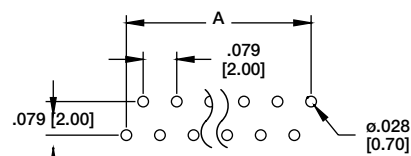
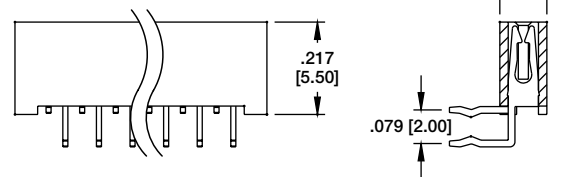
**PCB-C**  
1.00 (.039") SIDE ENTRY THRU HOLE



**PCB-C-12-SA-20**

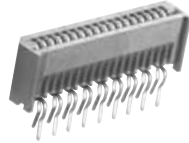
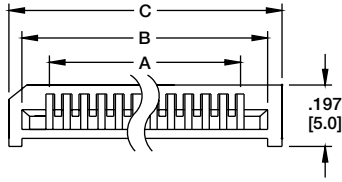


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

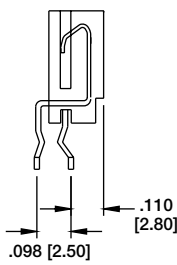
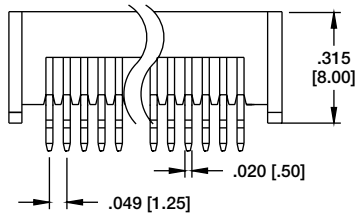


**Recommended PCB Layout**

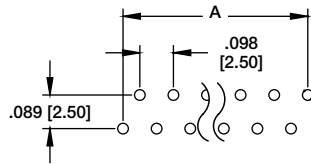
**PCB-B**  
1.25 (.049") TOP ENTRY THRU HOLE



**PCB-B-18-T-25**

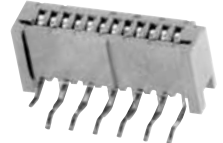
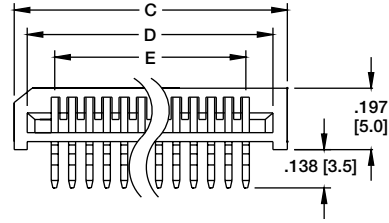


A = .049 [1.25] X No. of Spaces  
B = A + .098 [2.50]  
C = A + .197 [5.00]

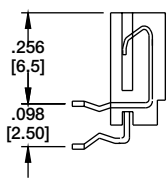
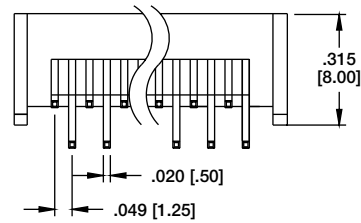


**Recommended PCB Layout**

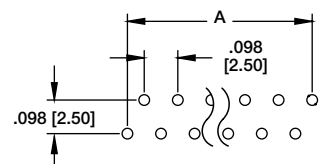
**PCB-B**  
1.25 (.049") SIDE ENTRY THRU HOLE



**PCB-B-12-SA-25**

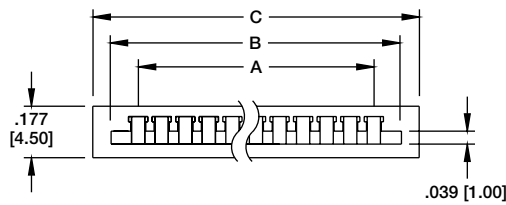


A = .049 [1.25] X No. of Spaces  
B = A + .098 [2.50]  
C = A + .197 [5.00]

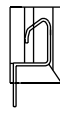
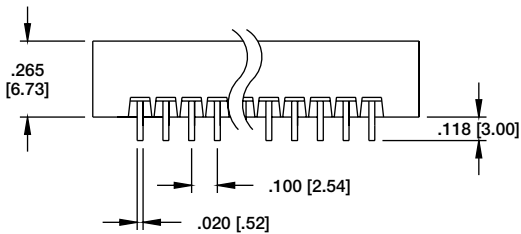


**Recommended PCB Layout**

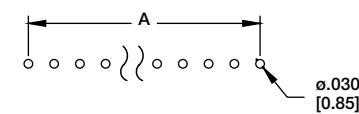
**PCB-A**  
.100" (2.54) TOP ENTRY INLINE THRU HOLE



**PCB-A-10-T**

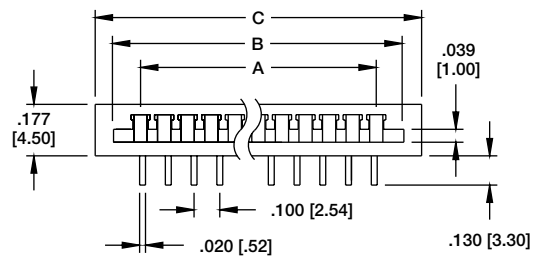


A = .100 [2.54] x no. of Spaces  
B = A + .232 [5.90]  
C = A + .315 [8.00]

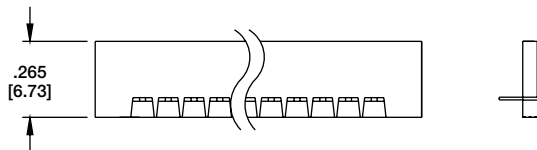


**Recommended PCB Layout**

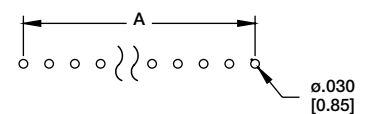
**PCB-A**  
.100" (2.54) SIDE ENTRY INLINE THRU HOLE



**PCB-A-13-SA**



A = .100 [2.54] x no. of Spaces  
B = A + .232 [5.90]  
C = A + .315 [8.00]



**Recommended PCB Layout**