

# ADAM TECH LIF FLEX CIRCUIT CONNECTOR

ADAM TECHNOLOGIES

**.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 .049" or .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:

Insulator: PBT, Glass reinforced, 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:

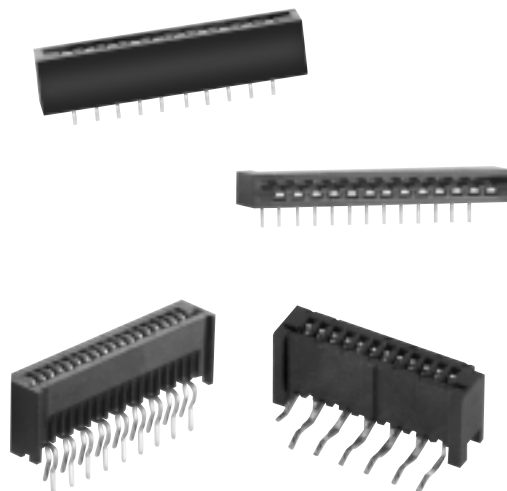
Operating temperature: -40°C to +85°C

## PACKAGING:

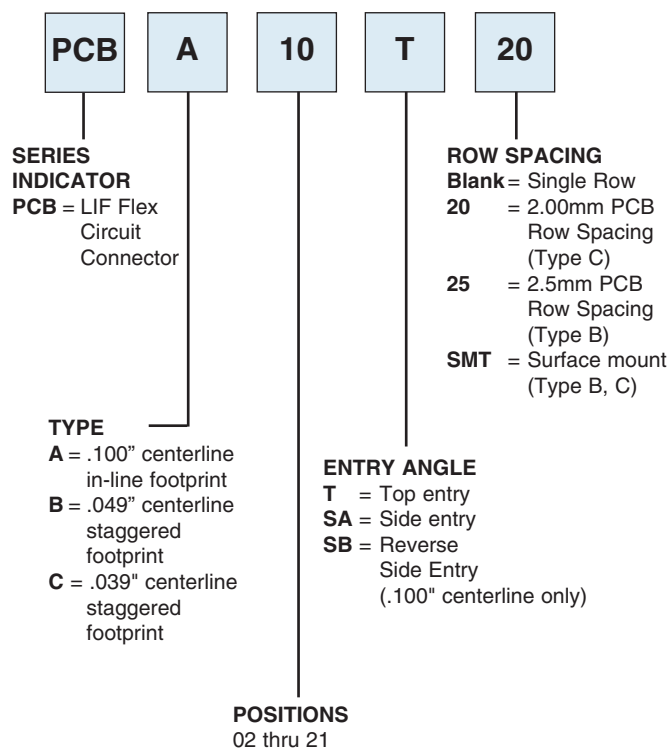
Anti-ESD plastic tubes or trays

## APPROVALS AND CERTIFICATIONS:

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



## ORDERING INFORMATION



## OPTIONS

Add designator(s) to end of part number  
RC = RoHS compliant lead-free product with Hi-Temp insulator

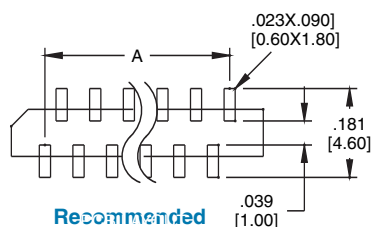
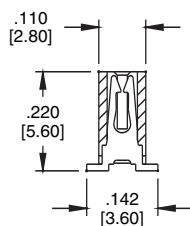
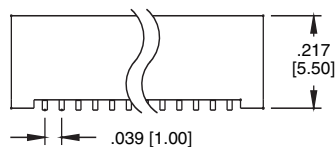
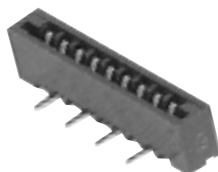
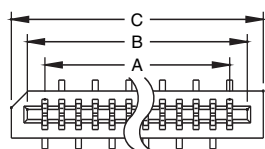
# ADAM TECH LIF FLEX CIRCUIT CONNECTOR

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**.039" [1.00] CENTERLINE  
PCB SERIES**

**TYPE C, TOP ENTRY .039" SMT**

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

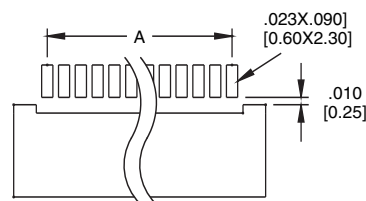
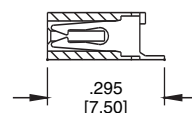
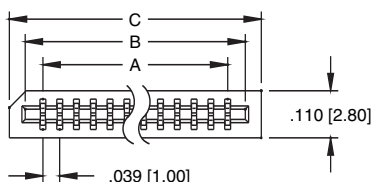
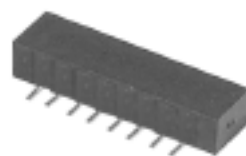
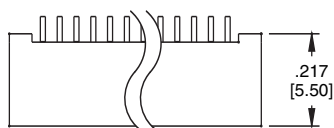


**Recommended  
PCB Layout**

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

**TYPE C, SIDE ENTRY .039" SMT**

**PCB-C-08-SA-SMT**

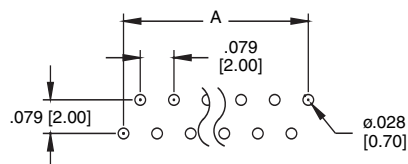
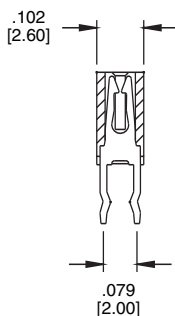
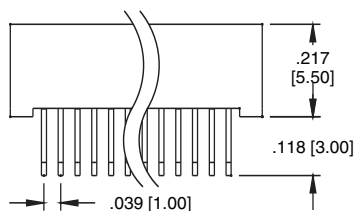
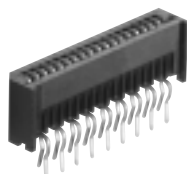
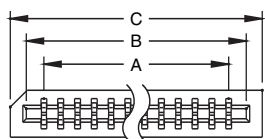


**Recommended PCB Layout**

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

**TYPE C, TOP ENTRY .039" THRU-HOLE**

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

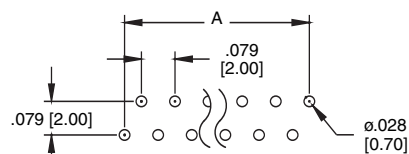
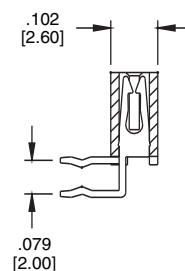
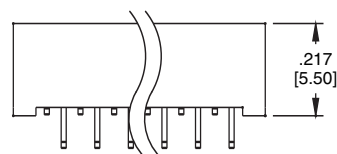
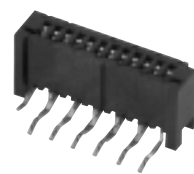
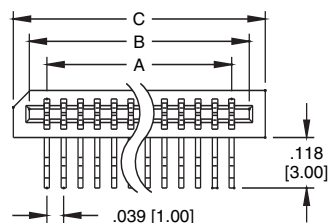


**Recommended PCB Layout**

A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .57 [4.00]

**TYPE C, SIDE ENTRY .039" THRU-HOLE**

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



**Recommended PCB Layout**

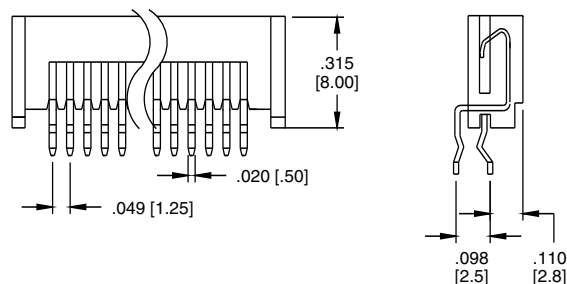
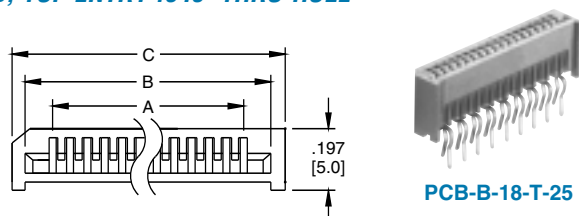
A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

# ADAM TECH LIF FLEX CIRCUIT CONNECTOR

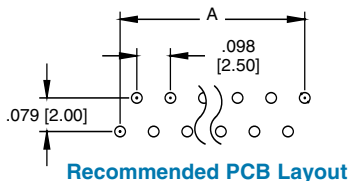
ADAM TECHNOLOGIES

.049" [1.25] & .100" [2.54] CENTERLINE  
PCB SERIES

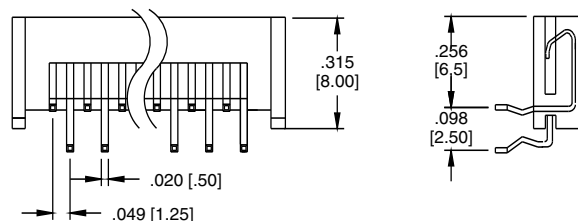
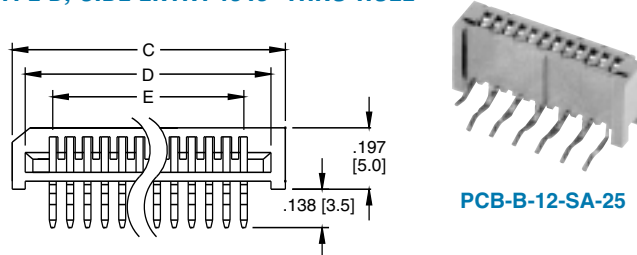
## TYPE B, TOP ENTRY .049" THRU-HOLE



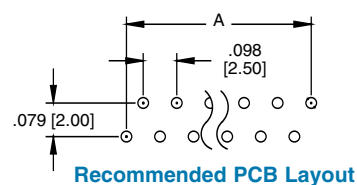
A = .049 [1.25] X No. of Spaces  
B = A + .098 [2.50]  
C = A + .197 [5.00]



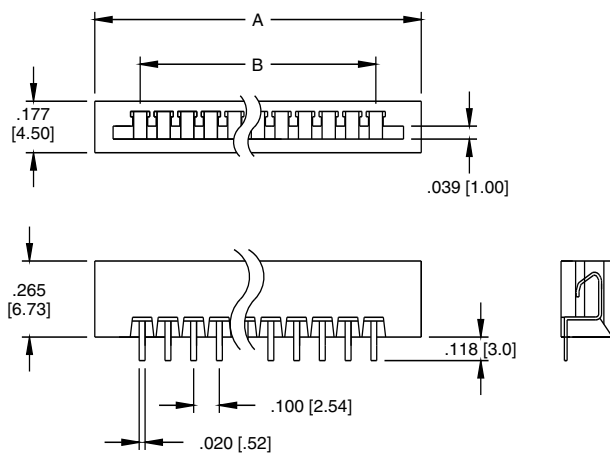
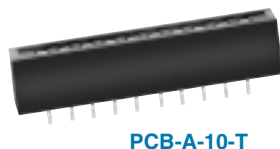
## TYPE B, SIDE ENTRY .049" THRU-HOLE



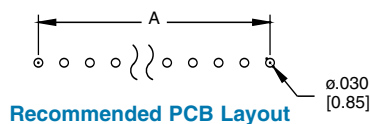
A = .049 [1.25] X No. of Spaces  
B = A + .098 [2.50]  
C = A + .197 [5.00]



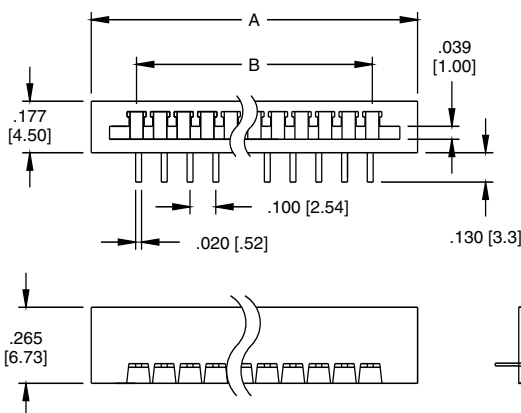
## TYPE A, TOP ENTRY .100" INLINE THRU-HOLE



A = .100 [2.54] x  
no. of Spaces  
B = A + .232 [5.90]  
C = A + .3 [7.62]



## TYPE A, SIDE ENTRY .100" INLINE THRU-HOLE



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

