

.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

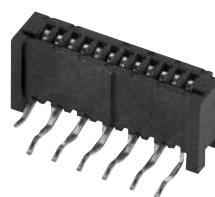
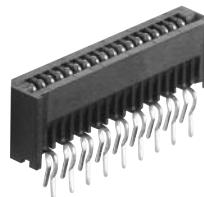
PACKAGING:

Anti-ESD plastic tubes or trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053

CSA Certified File No. LR1578596



ORDERING INFORMATION

PCB A 10 T 20

SERIES
INDICATOR
PCB = LIF Flex
Circuit
Connector

ROW SPACING
Blank = Single Row
20 = 2.00mm PCB
Row Spacing
(Type C)
25 = 2.5mm PCB
Row Spacing
(Type B)
SMT = Surface Mount
(Type B, C)

TYPE
A = .100" centerline
in-line footprint
B = .049" centerline
staggered footprint
C = .039" centerline
staggered footprint

ENTRY ANGLE
T = Top entry
SA = Side entry
SB = Reverse side entry
(.100" centerline only)

POSITIONS
02 thru 21

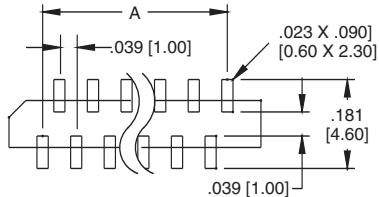
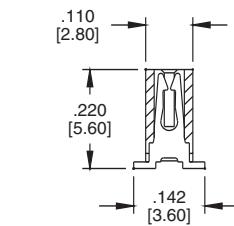
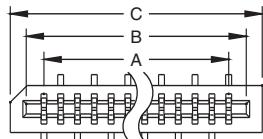
OPTIONS

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

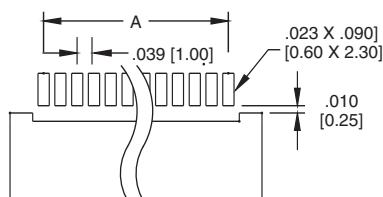
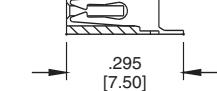
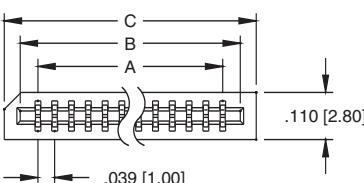
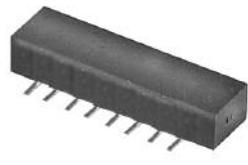
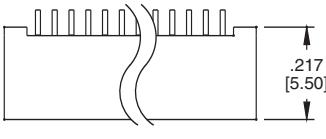


Recommended PCB Layout

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

PCB-C

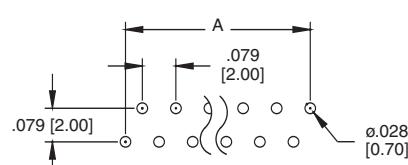
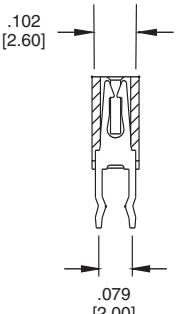
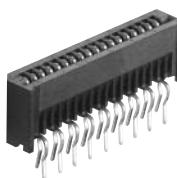
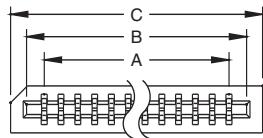
.039" (1.00) SIDE ENTRY SMT



Recommended PCB Layout

PCB-C

.039" (1.00) TOP ENTRY THRU HOLE

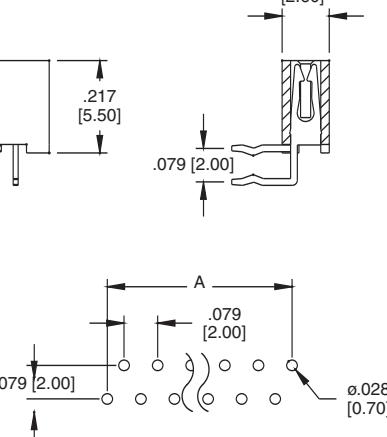
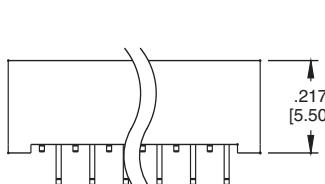
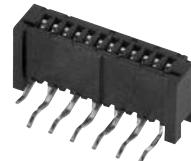
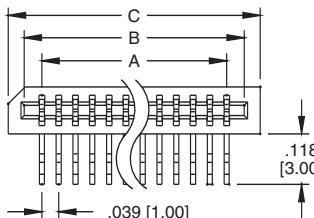


A = .039 [1.00] X No. of Spaces
 B = A + .090 [2.30]
 C = A + .157 [4.00]

Recommended PCB Layout

PCB-C

.039" (1.00) SIDE ENTRY THRU HOLE

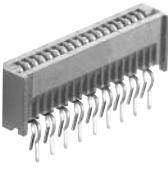
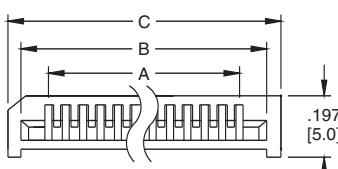


A = .039 [1.00] X No. of Spaces
 B = A + .090 [2.30]
 C = A + .157 [4.00]

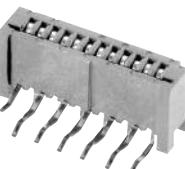
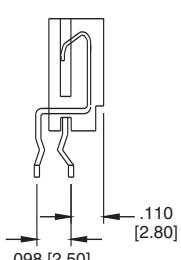
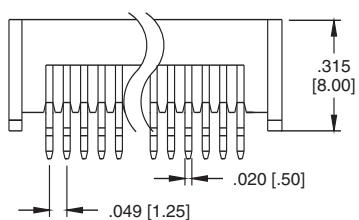
Recommended PCB Layout

PCB-B

.049"(1.25) TOP ENTRY THRU HOLE



PCB-B-18-T-25



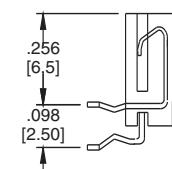
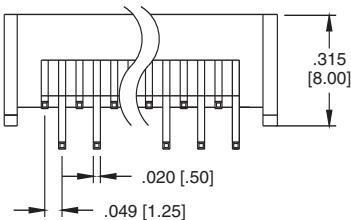
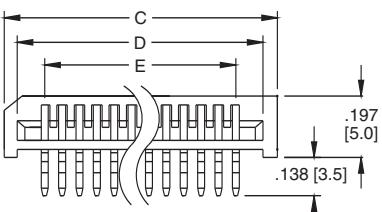
PCB-B-12-SA-25

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

Recommended PCB Layout

PCB-B

.049"(1.25) SIDE ENTRY THRU HOLE



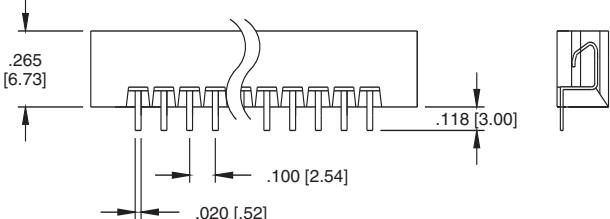
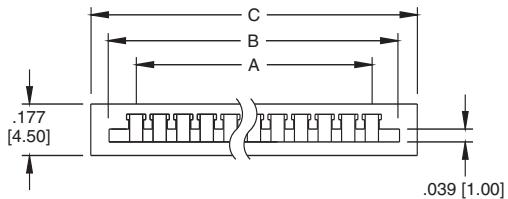
Recommended PCB Layout

PCB-A

.100"(2.54) TOP ENTRY
INLINE THRU HOLE



PCB-A-10-T

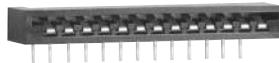


A = .100 [2.54] x no. of Spaces
 B = A + .232 [5.90]
 C = A + .315 [8.00]

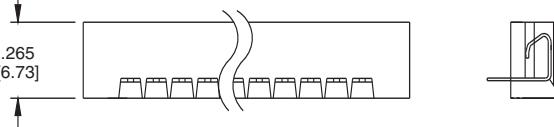
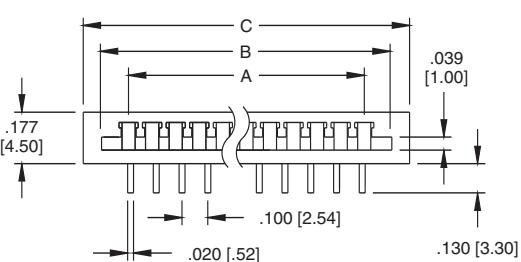
Recommended PCB Layout

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