

INTRODUCTION:

Adam Tech .050" IDC Sockets and Transition Plugs are low profile, precision designed flat cable connectors that feature either .050" x .100" centerlines or .050" x .050" centerlines. These series quickly and easily mass terminate flat cable in one simple step. Our superior contact design provides a smooth, high pressure wiping action to ensure excellent continuity. They are used with a single layer of .025" flat cable. Their small size, light weight and high density make them ideal for compact and limited space applications.

FEATURES:

.050" x .050" or .050" x .100"
Low Profile and High Density
Uses Single layer .025" Flat Cable
Quickly and easily mass terminates standard Flat Cable
Smooth High Pressure Wiping Contacts

MATING CONNECTORS:

Adam Tech .050" HBHR series box headers, latch headers or HPH2 series pin headers

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. Initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.312 lbs per contact max.
Withdrawal force: 0.094 lbs per contact min.
Recommended wire size: 28 Awg stranded
Cable retention: 22 lbs. min axial force per inch.
Mating durability: 500 cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

HFCS

50

SG

SERIES INDICATOR

HFCS = Low profile
.050" x .100" IDC
Socket for single
layer .025"
Flat Cable
HFCS-A = Low profile
.050" x .050" IDC
Socket for single
layer .025"
Flat Cable
HFTR = .050" Transition
plug
HFDP = .050" Paddleboard
Connector for
single layer .025"
Flat Cable
FDH = 4 Row
Transition plug

PLATING

SG = Selective
gold plating
in contact
area, nickel
plating in
termination
area
T = Tin plated
(HFDP &
FDH only)

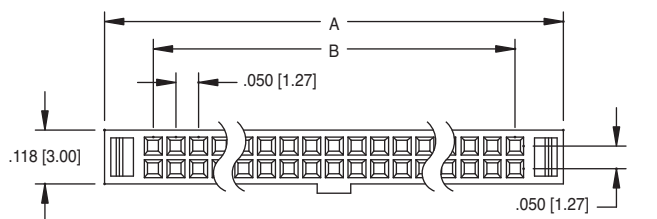
POSITIONS

HFCS: 10, 20, 30, 40,
50, 60, 70, 80,
90, 100
HFCS-A: 10, 20, 26, 34,
40, 50
HFDP: 30, 50, 68,
72, 80, 100
HFTR: 10, 12, 14, 16,
20, 22, 26, 30,
34, 40, 44, 50
FDH: 10, 14, 16,
20, 26, 34,
40, 50, 60

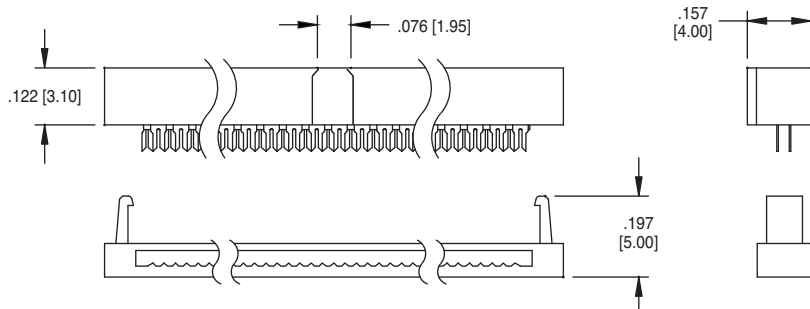
OPTIONS

Add designator(s) to end of part number
N = No polarization bump (HFCS series)

HFCS-A
.050" X .050"

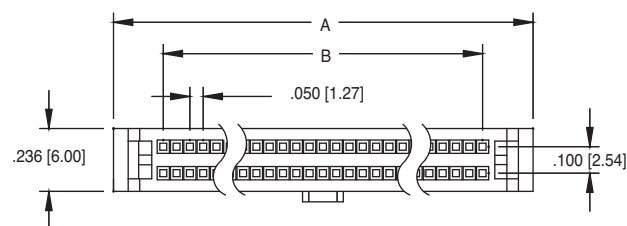


HFCS-A-34-SG

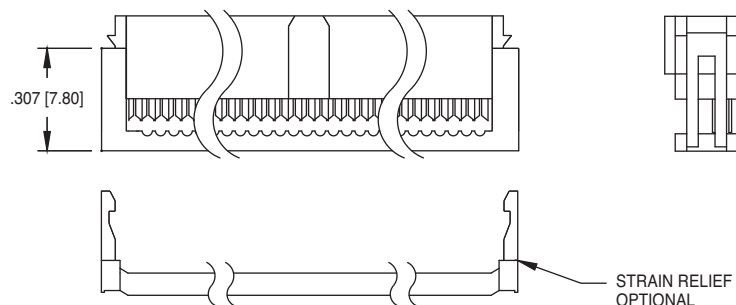


PART No. & POSITIONS	DIMENSIONS	
	A	B
HFCS-A-10 SG	.450 [5.08]	.413 [10.50]
HFCS-A-20 SG	.450 [11.43]	.665 [16.90]
HFCS-A-26 SG	.600 [15.24]	.815 [20.70]
HFCS-A-34 SG	.800 [20.32]	1.016 [25.80]
HFCS-A-40 SG	.950 [24.13]	1.165 [29.60]
HFCS-A-50 SG	1.200 [30.48]	1.413 [35.90]

HFCS
.050" X .100"

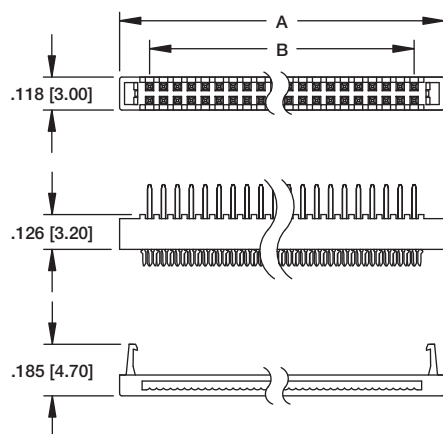


HFCS-40-SG

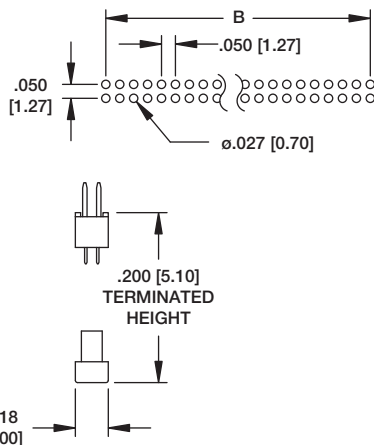


PART No. & POSITIONS	Dimensions	
	A	B
HFCS-10 SG	0.437 [5.08]	0.200 [11.10]
HFCS-20 SG	0.687 [11.43]	0.450 [17.45]
HFCS-30 SG	0.937 [17.78]	0.700 [23.80]
HFCS-40 SG	1.187 [24.13]	0.950 [30.15]
HFCS-50 SG	1.437 [30.48]	1.200 [36.50]
HFCS-60 SG	1.687 [36.83]	1.450 [42.85]
HFCS-70 SG	1.937 [43.18]	1.700 [49.20]
HFCS-80 SG	2.187 [49.53]	1.950 [55.55]
HFCS-90 SG	2.437 [55.88]	2.200 [61.90]
HFCS-100 SG	2.687 [62.23]	2.450 [68.25]

HFTR



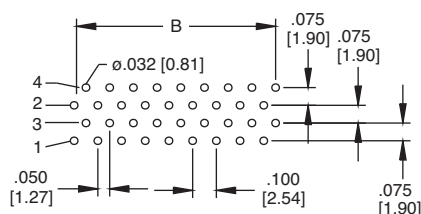
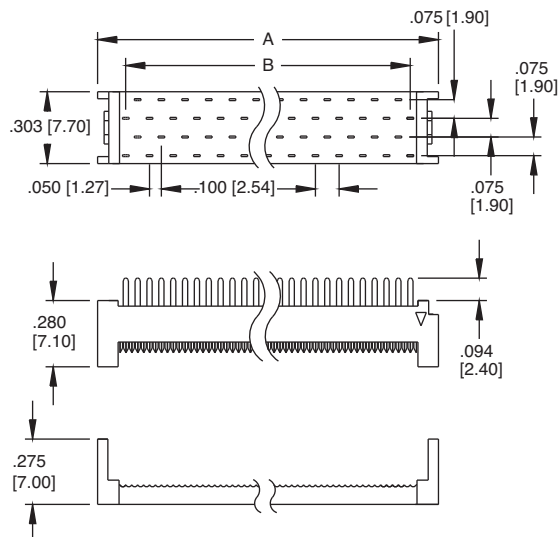
Recommended PCB Layout



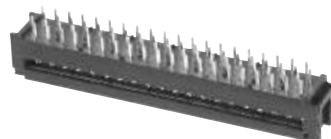
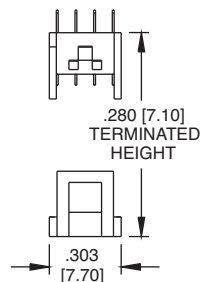
HFTR-26-T

Part No.	DIMENSIONS			
	A		B	
	in	mm	in	mm
HFTR-10	.413	10.50	.200	5.08
HFTR-12	.464	11.80	.250	6.35
HFTR-14	.515	13.10	.300	7.62
HFTR-16	.563	14.30	.350	8.89
HFTR-20	.665	16.90	.450	11.43
HFTR-22	.712	18.10	.500	12.70
HFTR-26	.815	20.70	.600	15.24
HFTR-30	.917	23.30	.700	17.78
HFTR-34	1.015	25.80	.800	20.32
HFTR-40	1.165	29.60	.950	24.13
HFTR-44	1.263	32.10	1.050	26.67
HFTR-50	1.413	35.90	1.200	30.48

HFDP



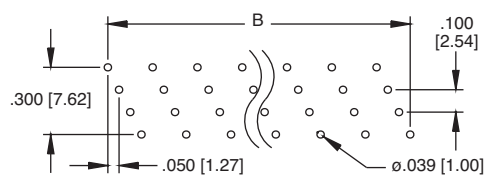
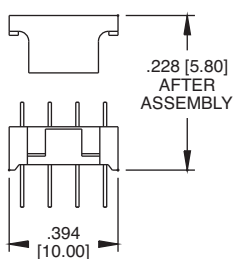
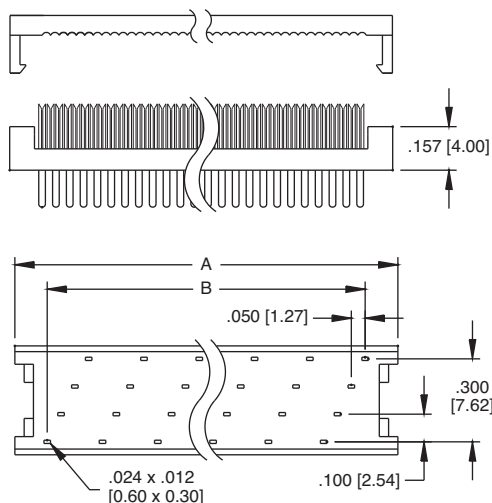
Recommended PCB Layout



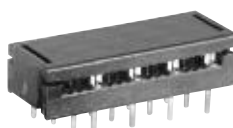
HFDP-80-T

Part No.	DIMENSIONS			
	A		B	
	in	mm	in	mm
HFDP-30-T	0.938	23.83	0.700	17.78
HFDP-50-T	1.438	36.53	1.200	30.48
HFDP-68-T	1.888	47.96	1.650	41.91
HFDP-80-T	2.188	55.58	1.950	49.53
HFDP-100-T	2.688	68.28	2.450	62.23

FDH



Recommended PCB Layout



FDH-34-T

Part No.	A		B	
	in	mm	in	mm
FDH-10-T	.689	17.50	.450	11.43
FDH-14-T	.889	22.58	.650	16.51
FDH-16-T	.989	25.12	.750	19.05
FDH-20-T	1.189	30.20	.950	24.13
FDH-26-T	1.489	37.82	1.250	31.75
FDH-34-T	1.889	47.98	1.650	41.91
FDH-40-T	2.189	55.60	1.950	49.53
FDH-50-T	2.689	68.30	2.450	62.23
FDH-60-T	3.189	81.00	2.950	74.93