

#### 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 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:

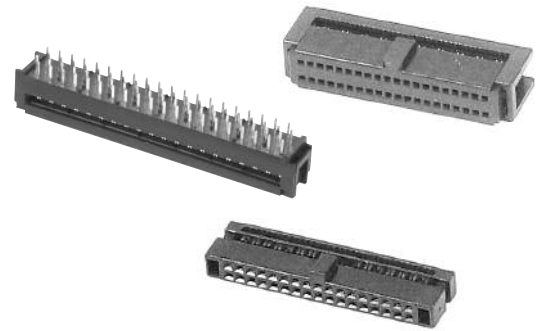
Operating temperature: -40°C to +105°C

#### PACKAGING:

Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

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



#### ORDERING INFORMATION



##### 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

**HFDP** = .050" Paddleboard  
 Connector for  
 single layer .025"  
 Flat Cable

**FDH** = 4 Row  
 Transition plug

##### PLATING

**SG** = Selective  
 gold plating  
 in contact  
 area

**T** = Tin plated  
 (HFDP)

##### 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

**FDH:** 10, 14, 16,  
 20, 26, 34,  
 40, 50, 60

##### HFCS Strain Relief

**Part No.:**  
 HFSR - XX  
 (XX = No. of Positions)

##### OPTIONS

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