

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:

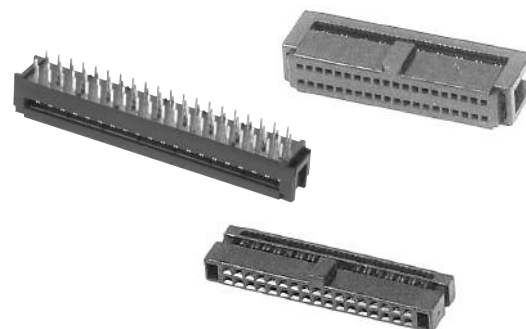
Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

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



ORDERING INFORMATION

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
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)