

# ADAM TECH

ADAM TECHNOLOGIES INC.

## 2.00mm IDC SOCKET .079" x .079" [2.00 x 2.00] CENTERLINE 2FCS SERIES

### INTRODUCTION:

Adam Tech 2FCS Series 2.00mm IDC Sockets are high density, compact connectors designed to mate with 2.0mm centerline male headers in PC board applications. They provide a fast, reliable mass termination interconnect system with 1.00mm centerline flat cable. They are widely used for interboard bussing and when connecting subsystems together. Our design features precision stamped, selectively gold-plated, phosphor bronze contacts. A pre-assembled adjustable cover accommodates a wide range of cables and a special contact system provides early start wiping action when mating for a reliable connection with lower contact resistance.

### FEATURES:

- Compact, low-profile design
- Available in 20 - 68 positions
- Early make, late break contact system
- Accepts wide range of cables
- Pre-assembled cover with cable guides
- Chamfered pin lead-in for easy mating

### MATING OPTIONS:

Mates with Adam Tech 2PH Series Headers and all industry standard headers on 2.00mm centerlines with .020" [0.50] square or round pins

### SPECIFICATIONS:

#### Material:

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94V-0

Insulator color: Black

Contacts: Phosphor Bronze

#### Plating:

5  $\mu$ m gold nom. (optional 30  $\mu$ m) to MIL-G-45204, Type II, Grade C on contact area over 50  $\mu$ m nickel underplate to QQ-N-290, Class 2, Grade C

#### Electrical:

Operation voltage: 250 VAC max

Current rating: 1 Amp max

Contact resistance: 20 m $\Omega$  max

Insulation resistance: 1000 M $\Omega$  min @ 750 VDC between adjacent contacts (75°F and 50% R.H.)

Dielectric withstanding voltage: 750 VAC min rms (sea level)

#### Mechanical:

Contact insertion force: 300 gms. per contact max

Contact withdrawal force: 20 gms. per contact min

Cable retention: 24 lbs min axial force per cable inch

Mating durability: 750 cycles min

#### Environmental:

Operating temperature: -65°C to +125°C

#### PACKAGING:

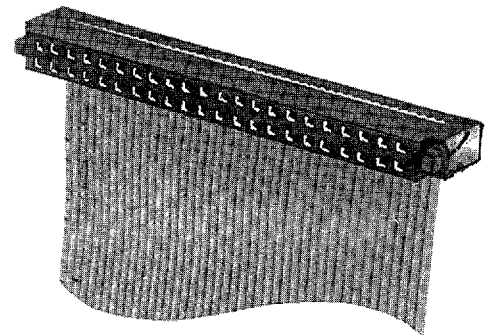
Anti-static plastic trays or tubes

#### APPROVALS AND CERTIFICATIONS:

Recognized under the component program

of Underwriters Laboratories, Inc. No. E167232

Certified by Canadian Standards Association No. LR75112



### ORDERING INFORMATION

**2FCS**

**40**

**SG**

#### SERIES INDICATOR

2FCS = 2.00mm  
Flat Cable  
IDC Socket

#### PLATING OPTIONS

SG = Selectively  
Gold-Plated

#### POSITIONS

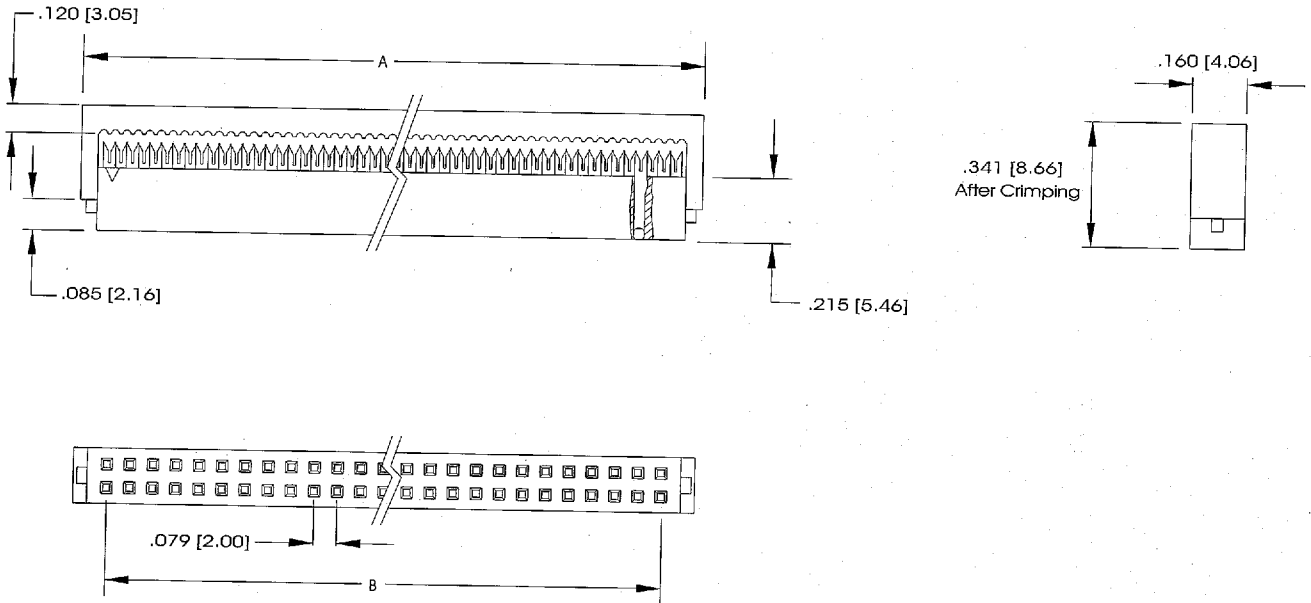
20, 22, 24, 26, 34, 36,  
40, 44, 50, 60, 68

#### NOTE:

Mating Box Headers for this series  
located on page 165

#### OPTIONS:

Add as suffix to basic part number  
30 = 30  $\mu$ m. Gold Plating in contact area



Unit: Inch / mm

Dimensional:		
CONTACTS	A	B
20	0.890 (22.60)	0.709 (18.00)
22	0.969 (24.60)	0.787 (20.00)
24	1.047 (26.60)	0.866 (22.00)
26	1.126 (28.60)	0.945 (24.00)
34	1.441 (36.60)	1.260 (32.00)
36	1.520 (38.60)	1.339 (34.00)
40	1.677 (42.60)	1.496 (38.00)
44	1.835 (46.60)	1.654 (42.00)
50	2.071 (52.60)	1.890 (48.00)
60	2.465 (62.60)	2.283 (58.00)
68	2.780 (70.60)	2.598 (66.00)

**NOTE:**

Mating Box Headers for this series are located on page 165