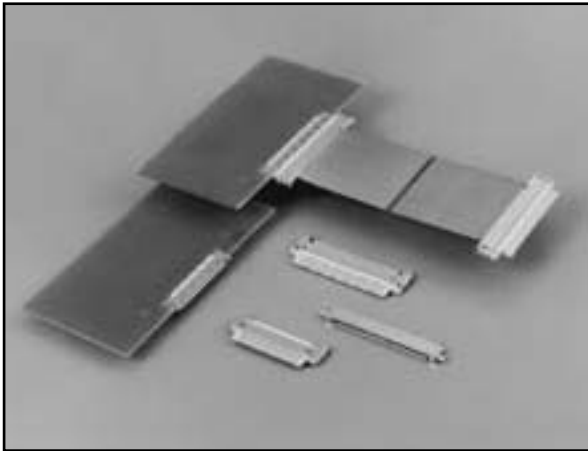


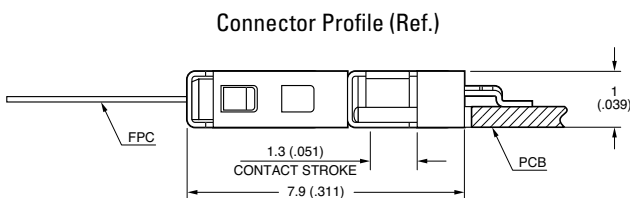
# FI-X SERIES CONNECTORS

## 1.00mm (.039") Pitch Connector for PCB-to-Cable



### FEATURES

- Compatible with high-speed differential transmission and high-level impedance matching (90 to 100 ohms)
- Greatly improved ground condition which is directly related to EMI characteristics
- Bottom type structure provides 1.5mm (.059") connector height and 1mm (.039") height above the PCB
- 1mm (.039") contact pitch with impedance matching
- FPC provides stable grounding to the PCB
- Compatible with a variety of cables such as thin wire coaxial cables and flex circuitry



The FI-X Series connectors are designed for thin LCD interface applications, and are compatible with high-speed differential transmissions. They are ideal for use in compact notebook PCs, and other applications where size and weight are critical considerations.

### GENERAL SPECIFICATIONS

Number of Contacts	14, 20, 30, D7 14 (specifically designed for differential transmission/ 7 pairs)
Contact Spacing	1.0mm (.039")
Applicable FPC	0.14mm ± 0.03mm(.005" ± .001")
Current Rating	AC/DC 1 Amp per contact
Dielectric Withstanding Voltage	500 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	40 milliohms max.
Operating Temperature	-40°C to +80°C
Voltage Rating	AC/DC 200V

### MATERIALS AND FINISHES\*

#### FI-XB\*\*S-HF10 (Board Connector)

Ground Plate	Copper Alloy / Tin plating
Insulator	Glass filled 4-6 Nylon (UL94V-0, Beige)
Shell	Copper Alloy/Tin plating
Contact	Copper Alloy/Gold plating over Nickel Terminal Area: Tin'Lead over Nickel

#### FI-X\*\*M (Cable Connector)

Ground Plate	Copper Alloy / Tin plating
Insulator	Glass filled 4-6 Nylon (UL94V-0, Beige)
Shell	Copper Alloy/Tin plating
Slider	Thermal Plasticity plating
Contact	Copper Alloy/Gold plating over Nickel Mating FPC Area: Tin'Lead over Nickel

(Continued Next Page)

\* Please consult JAE for verification of product availability.

Dimensions in mm (inches).

# FI-X SERIES CONNECTORS

## 1.00mm (.039") Pitch Connector for PCB-to-Cable

### MATERIALS AND FINISHES\*, Cont.

#### FI-X\*\*M(R) (Cable Connector, FPC Relay Type)

Ground Plate	Copper Alloy / Tin plating
Insulator	Glass filled 4-6 Nylon (UL94V-0, Beige)
Shell	Copper Alloy/Tin plating
Slider	Thermal Plasticity plating
Contact	Copper Alloy: Contact Portion: Gold plating over Nickel FPC Contact Portion: Tin-Lead plating over Nickel

#### FI-XB\*\*S(R) -HF, FI-X\*\*S-HF (Board Connector)

Insulator	Glass filled 4-6 Nylon (UL94V-0, Beige)
Shell	Copper Alloy/Tin plating
Contact	Copper Alloy: Contact Portion: Gold plating over Nickel Terminal Portion: Tin-Lead plating over Nickel

#### FI-XC3-1-15000 (Socket Contacts)

Contact	Copper Alloy: Contact Portion: Gold plating over Nickel Cable Crimping Portion: Tin plating
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\*Please contact JAE for lead-free product availability.

#### FI-X\*\*H (Cable, Crimp Housing)

Description	Materials/Finishes
Housing	Glass filled 4-6 Nylon
Shell	Copper Alloy/Tin plating (D7: Gold plating over Nickel on ground)

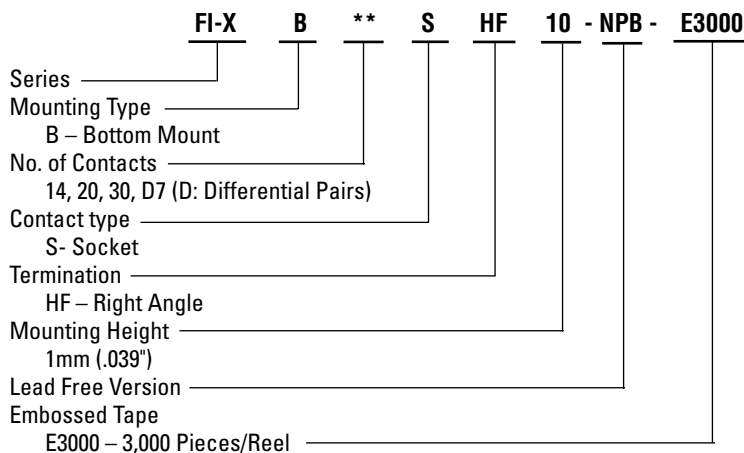
#### FI-X\*\*C (Cable Connector)

Ground Plate	Copper Alloy / Tin plating
Insulator	Glass filled 4-6 Nylon
Slider	Thermal Plasticity plating
Contact	Copper Alloy: Contact Area: Gold (0.1µm min.) over Nickel Terminal Area: Tin-Lead over Nickel

### TOOLING

Description	Part Number
Hand Crimp Tool	CT150-4C-FIX
Press	CP215-4B
Applicator	350-FI-2B

### ORDERING INFORMATION



• Please consult JAE for verification of product availability.

Dimensions and specifications subject to change without notice.