



# **FB10 SERIES FPC CONNECTOR TRAINING MODULE**

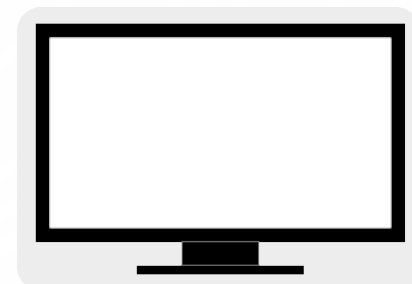
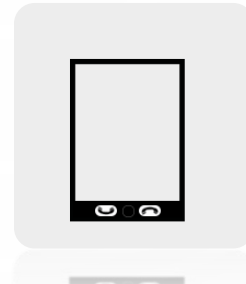
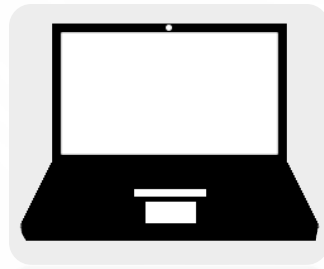
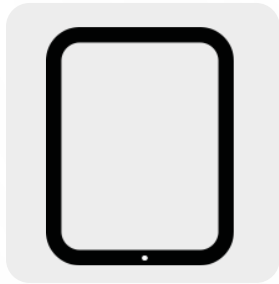
Technology to Inspire Innovation



# JAE FB10 Series FPC Connector

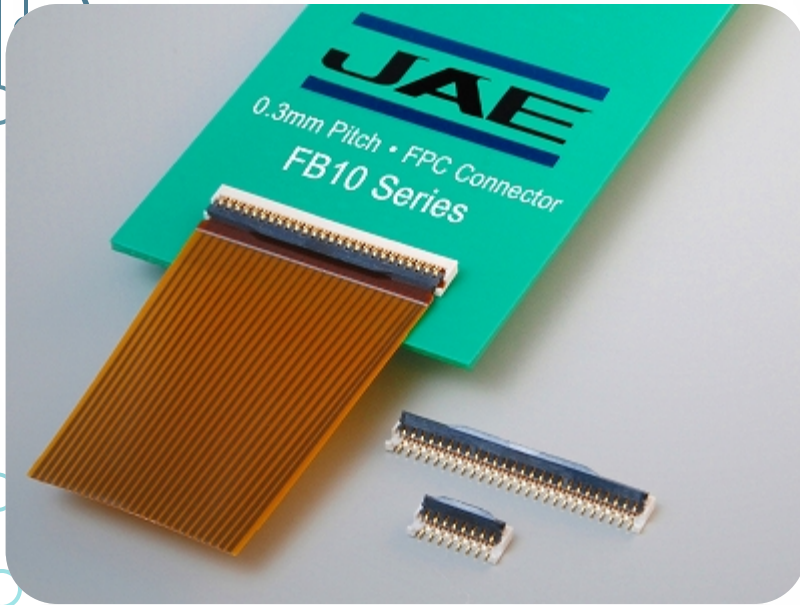
## Application Examples

- Mobile/smart phone
  - LCD display
- Notebook PC, tablets
  - PDA
  - Touch-panel
- Other handheld devices



# FB10 Series Features

**“Smallest 0.3mm Pitch Connector in the Industry”**



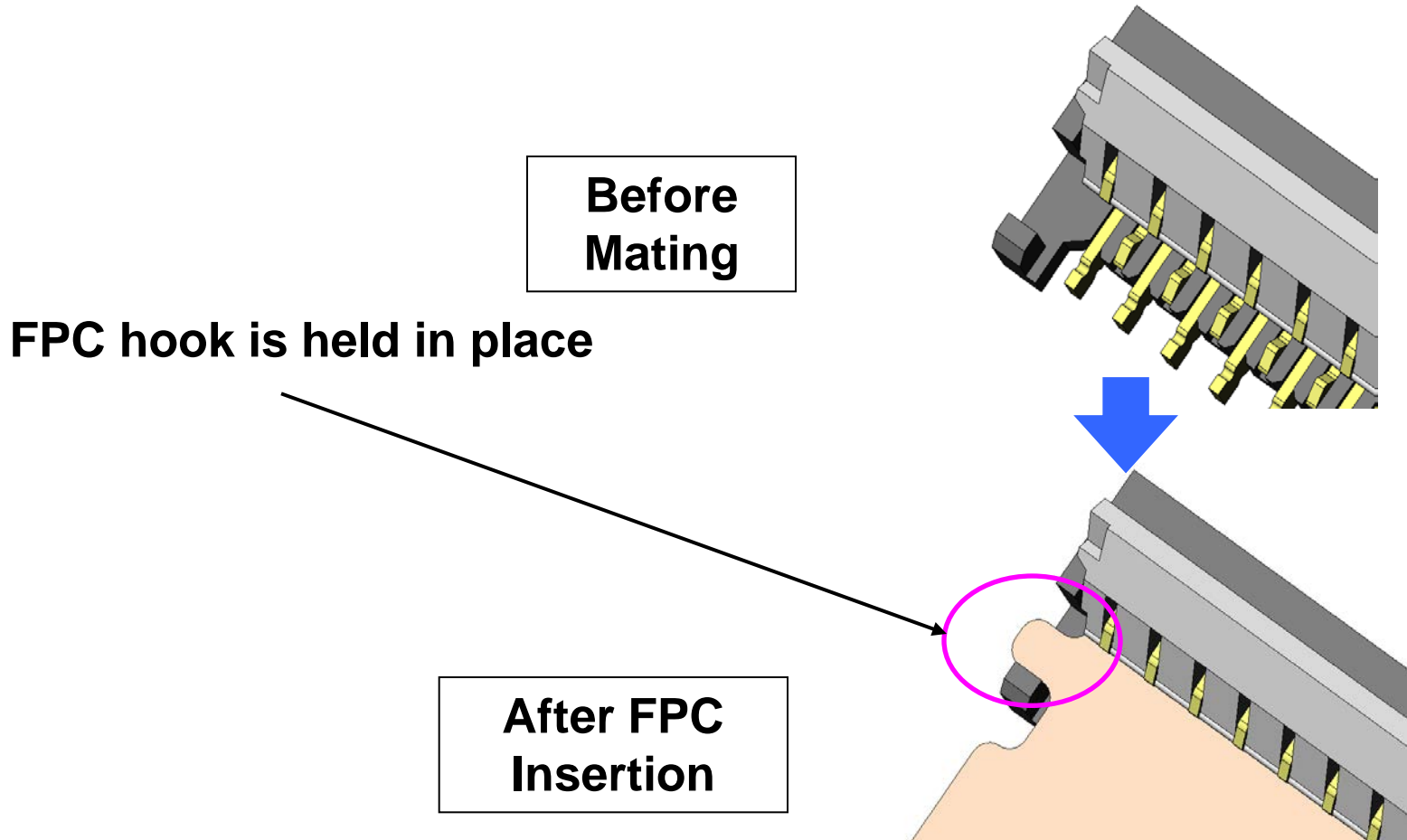
- JAE's FB10 Series is a low profile, bottom-surface connection type FPC connector suitable for various applications.
- ZIF structure
- Clear clicking sound when mated
- Easy-to-operate actuator
- Open actuators are lightly locked in place to prevent insertion interferences.
- Ni barrier on the contact prevents solder wicking
- Board patterns are traceable under the connector (excluding the terminal area)
- Pb-free, Halogen-free product



# FB10 Feature

“Hooks for Misalignment Prevention”

The hook temporarily holds the FPC in tact until the actuator locks.

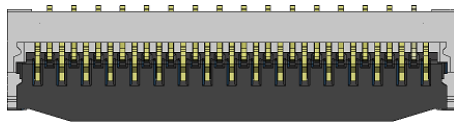




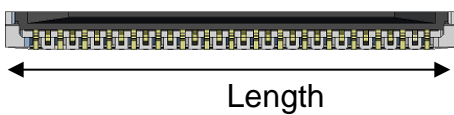
# General Specifications

<b>No. of Contacts</b> *(): under development	(11),13,15,(19),(21),27, 31, 33, (35),39, 41, 45, 51,61
<b>Pitch</b>	0.3mm
<b>Height</b>	0.9mm (1.0mm MAX)
<b>Depth</b>	2.5mm
<b>Applicable FPC Thickness</b>	0.2mm±0.03mm
<b>FPC Insertion Force</b>	ZIF
<b>FPC Retention Force</b>	0.15N/n min.
<b>Contact Force</b>	0.2N/n min.
<b>Contact resistance</b>	80m Ω max (initial)
<b>Dielectric Withstanding Voltage</b>	AC 250Vr.m.s (for 1 minute)
<b>Operating Temperature Range</b>	-40 to +85 °C
<b>Rated Current</b>	0.35A per pin
<b>Rated Voltage</b>	50 V(A.C./D.C.) per pin
<b>Mating Durability</b>	20 cycles
<b>Coplanarity</b>	0.1mm max.

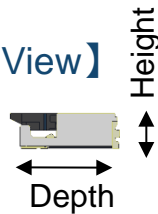
【Top View】



【Front View】



【Side View】

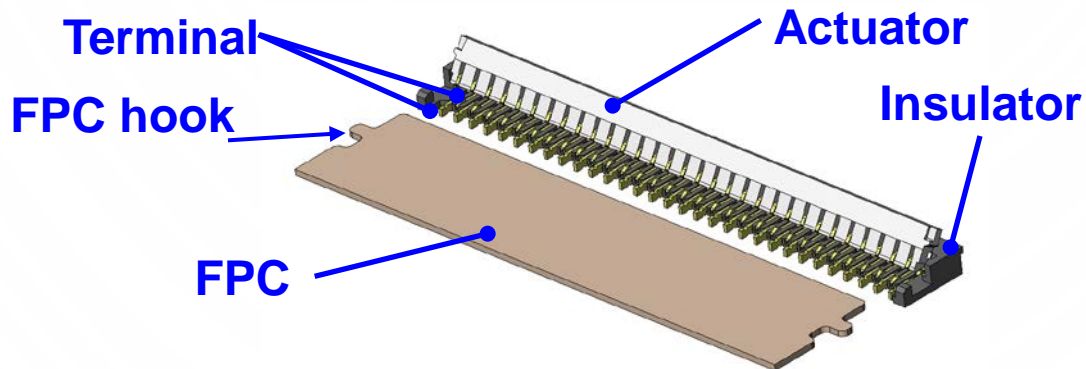


【Bottom View】



# Materials and Finishes

Component	Material/Finish
Contact (2 Types)	Copper alloy/ Au plating over Ni Contact area: 0.1 $\mu$ m min. Au Plating Terminal area: 0.03 $\mu$ m min. Au Plating
Insulator	Heat-resistant resin (Halogen-free)
Actuator	Heat-resistant resin (Black, Halogen-free)



# Summary

- Low profile, bottom-surface connection type FPC connectors
- Smallest 0.3 mm pitch connector in the industry
- Applications:
  - Mobile/Smart phone
  - LCD Display
  - Notebook PC/Tablet
  - PDA
  - Touch panel
  - Other handheld devices



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