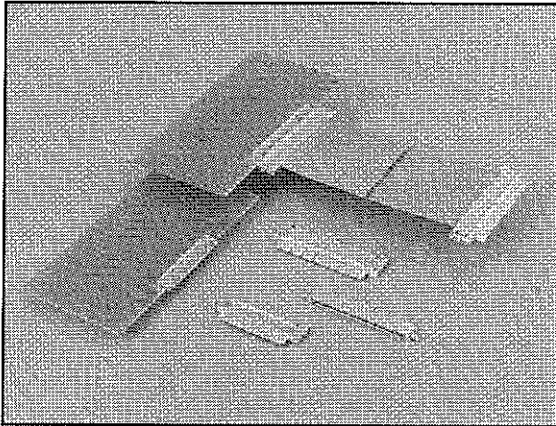


FI-X SERIES CONNECTORS

1.00mm (.039") Contact Spacing, 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
- Friction lock housing enables secure connections

.....

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

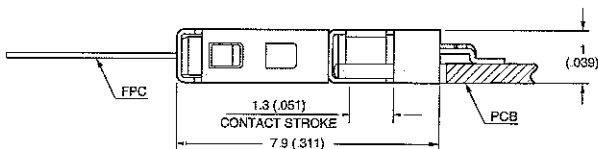
FI-XB**S-HF10 (Board Connector)

| | |
|--------------|--|
| 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 |

Connector Profile (Ref.)



(Continued Next Page)

FI-X SERIES CONNECTORS

1.00mm (.039") Contact Spacing, Connector for PCB-to-Cable

MATERIALS AND FINISHES, *Cont.*

FI-XM(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-XBS(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 |
|---------|---|

FI-XH (Cable, Crimp Housing)**

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

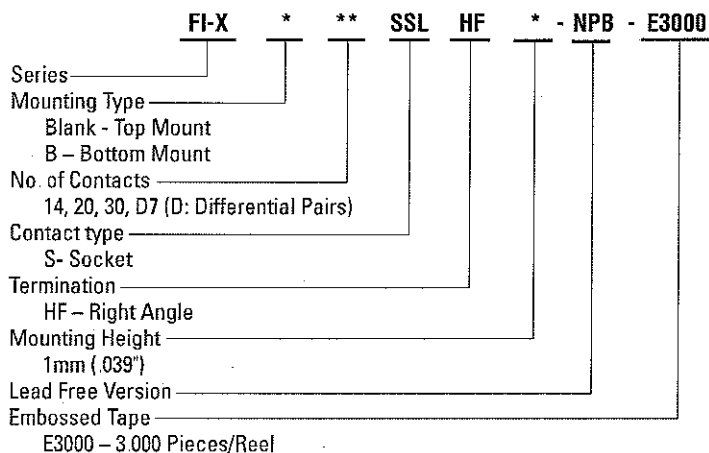
FI-XC (Cable Connector)**

| | |
|--------------|---|
| 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 |

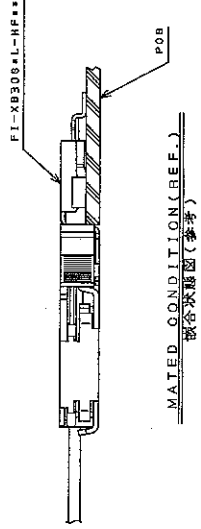
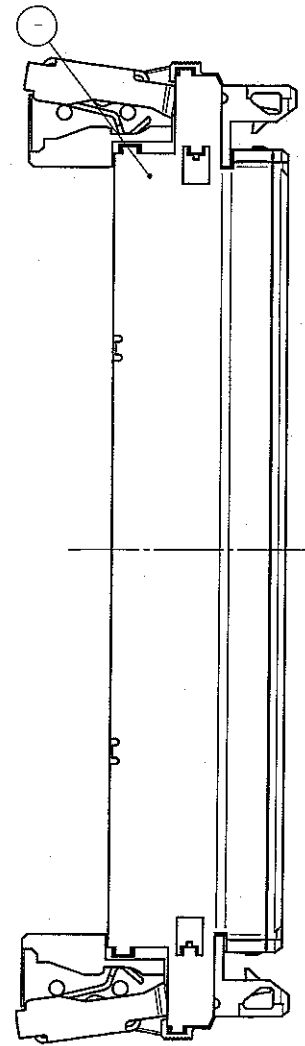
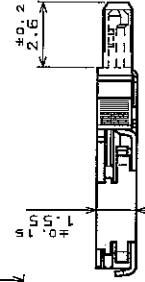
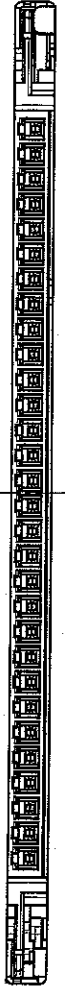
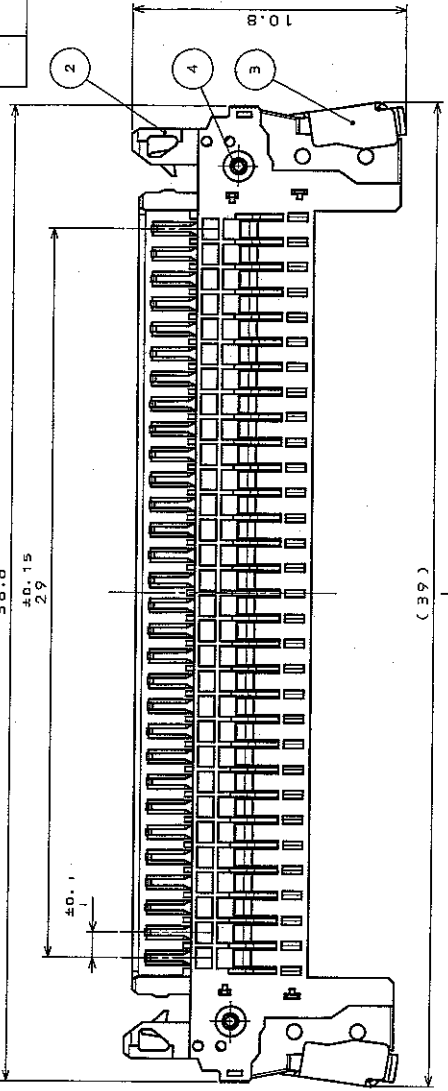
ORDERING INFORMATION



Dimensions and specifications subject to change without notice.

8J037012
(DRAWING NO.)

| | | | | | | | |
|------|------------|---------|--------------------------------|-----------|------------|-------------|------------------|
| REV. | DATE | DON NO. | 変更内容 DESCRIPTION | 製図 DR. | 担当 CHK. | 承認 APPD. | 承認 APPD. |
| 2 | 6.MBY.2003 | 52052 | AN ERROR IN WRITING CORRECTION | T.YAMAJI | K.HIGAMATU | A. KIMURA | <i>A. Kimura</i> |



NOTE 1. Refer to instruction manual JAHL-1597-20.
注 1. 取扱説明書 JAHL-1597-20 を参照してください。

NOTE 2. APPLICABLE CONTACT
FI-XC3-1-15000(SJ033911) or FI-XC3-B-1-15000(SJ036918)
注 2. 適合コンタクトは下記コンタクトを使用して下さい。
FI-XC3-1-15000(SJ033911) 又は FI-XC3-B-1-15000(SJ036918)

| | | | | | | | |
|---------------------------|--------------|---|------------------------|--------------------|--------------|--|--|
| 4 | PIVOT | 2 | STAINLESS STEEL | | | | |
| 3 | LOCK LEVER | 2 | STAINLESS STEEL | | | | |
| 2 | INSULATOR | 1 | HEAT RESISTING PLASTIC | | | | |
| 1 | GROUND PLATE | 1 | COPPER ALLOY | | | | |
| 符号 NO. | | 品名 DESCRIPTION | 材質 MATERIAL | 仕上 FINISH | 備 REMARKS | | |
| 仕様 (SPECIFICATION) | | 仕様 (ORIGINAL DATE) | 仕様 (DATE) | TIN PLATING | | | |
| 公差 (GENERAL TOLERANCE) | | JAE-CONNECTOR.COM Reference ONLY AVIATION ELECTRONICS INDUSTRY, LTD. | | | | | |
| 寸法 (DIMENSION) | | 公差 (ANGLES) | | 名 名称 (TITLE) | | | |
| .X ±0.8 | | X° ± | | FI-X30HL | | | |
| .XX ±0.4 | | XX' ± | | (HOUSING) | | | |
| .XXX ±0.1 | | XXX' ± | | 図面番号 (DRAWING NO.) | | | |
| .XXXX ± | | XXXX' ± | | 重量 (WEIGHT) | | | |
| | | | | SJ037012 | | | |

