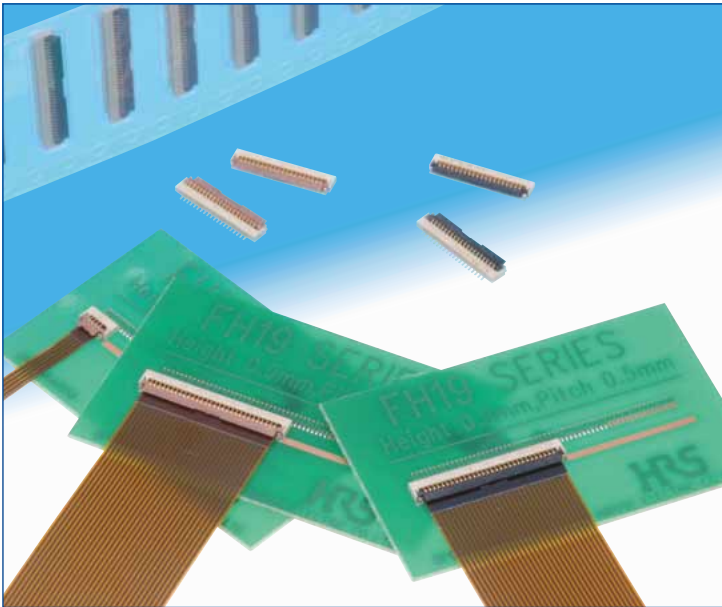
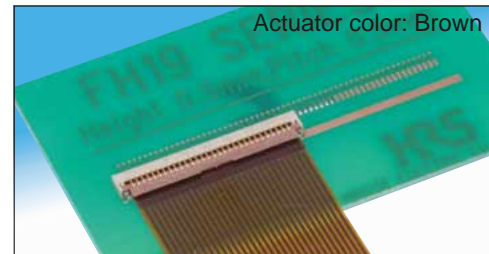


0.5 mm Pitch, 0.9 mm Height, FPC/FFC Connectors

FH19C Series/FH19SC Series

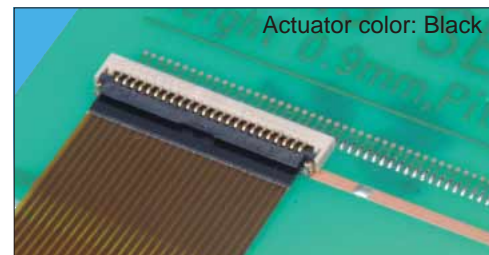


FH19C – FPC/FFC thickness: 0.2 ± 0.03 mm



Actuator color: Brown

FH19SC – FPC/FFC thickness: 0.3 ± 0.03 mm



Actuator color: Black

Features

1. Low-profile 0.5mm pitch FPC/FFC Connectors

Miniaturization of portable equipment and personal mobile devices has created increased demand for a low profile, high density, and high reliability connectors.

*The design of this connector has been made thinner and smaller, with a height of 0.9mm and width of 3mm.

*PCB footprint: Reduced approximately 48% (as compared with Hirose Electric's 0.5mm pitch FH12 Series connectors)

*Connector weight: Reduced approximately 78% (as compared with Hirose Electric's 0.5mm pitch FH12 Series connectors)

2. Conductive traces on the PCB can run under the connector

All bottom surface of the connector is solid, without any exposure of the contact.

3. Proven Flip-Lock Actuator System assures easy and reliable operation

Rotating actuator permits easy insertion and reliable connection with the FPC & FFC.

Tactile sensation confirms complete mechanical locking of the actuator and the electrical connection.

4. Accepts 0.2mm & 0.3mm thick FPC/FFC

No exposed contacts on the bottom of the connector.

The connector will also terminate with 0.2mm thick Flat Flexible Cable (FFC).

5. Board placement with automatic equipment

Flat upper surface and tape and reel packaging facilitate vacuum pick-up and placement. Standard reel packaging contains 5000 connectors.

6. Wide range of contact counts

The contact positions available range from 4 to 50.

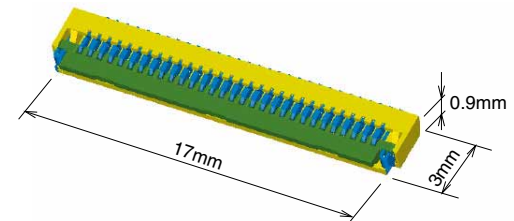
7. Satisfies Halogen-free requirements

All materials and substances used in this product comply with the Halogen-free standards.

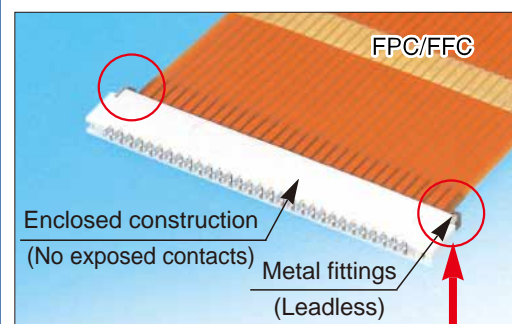
* Defined according to IEC61249-2-21

Br: 900ppm max, Cl: 900ppm max, Br+Cl: 1,500ppm max

● 0.9mm high (30 pos. shown)



● Can be mounted over conductive traces

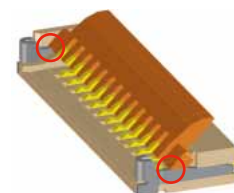


● Metal Fittings (Leadless Type)

No protrusions on the sides allows close side-by-side board placement.



● Actuator Temporary Hold Mechanism



Actuator stays open during insertion of the FPC/FFC.

Product Specifications

| | | | |
|--------|------------------------------|--|--|
| Rating | Current rating 0.5 A (Note1) | Operating temperature range -55°C to +85°C (Note 2) | Storage temperature range -10°C to +50°C (Note 3) |
| | Voltage rating 50 V AC | Operating humidity range Relative humidity 90% max. (No condensation) | Storage humidity range Relative humidity 90% max. (No condensation) |

| | | |
|-------------------------|---------------|---------------------------------------|
| Recommended FPC, FFC | FH19C Series | Thickness: = 0.2 ± 0.03mm Gold plated |
| | FH19SC Series | Thickness: = 0.3 ± 0.03mm Gold plated |

| Item | Specification | Conditions |
|--|---|---|
| 1. Insulation resistance | 500 M ohms min. | 100 V DC |
| 2. Withstanding voltage | No flashover or insulation breakdown | 150 V AC/1 minute |
| 3. Contact resistance | 100 m ohms max. *Including FPC/FFC conductor resistance | 1 mA |
| 4. Durability (insertion/ withdrawal) | Contact resistance: 100 m ohms max. No damage, cracks, or parts dislocation. | 20 cycles |
| 5. Vibration | No electrical discontinuity of 1 μs or more. Contact resistance: 100 m ohms max. No damage, cracks, or parts dislocation. | Frequency: 10 to 55 Hz, single amplitude of 0.75mm, 10 cycles in each of the 3 directions |
| 6. Shock | No electrical discontinuity of 1 μs. min. Contact resistance: 100 m ohms max. No damage, cracks, or parts dislocation. | Acceleration of 981 m/s ² , 6 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis. |
| 7. Humidity (Steady state) | Contact resistance: 100 m ohms max. Insulation resistance: 100 M ohms min. No damage, cracks, or parts dislocation. | 96 hours at temperature of 40°C and humidity of 90 to 95% |
| 8. Temperature cycle | Contact resistance: 100 m ohms max. Insulation resistance: 100 M ohms min. No damage, cracks, or parts dislocation. | Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C Time : 30 → 2 to 3 → 30 → 2 to 3(Minutes) 5 cycles |
| 9. Resistance to soldering heat | No deformation of components affecting performance. | Reflow: At the recommended temperature profile Manual soldering: 350°C±5°C for 5 seconds |

Note 1: When passing the current through all of the contacts, use 70% of the current rating.

Note 2: Includes temperature rise caused by current flow.

Note 3: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non- conducting condition of installed connectors in storage, shipment or during transportation. Information

Materials

| Part | Material | Finish | Remarks |
|----------------|-----------------|---|---------|
| Insulator | LCP | Color: Beige | UL94V-0 |
| | | Color: Brown (FH19C Series) Color: Black (FH19SC Series) | |
| Contacts | Phosphor bronze | Gold plated | — |
| Metal fittings | Phosphor bronze | Pure tin reflow plated | — |

Ordering information

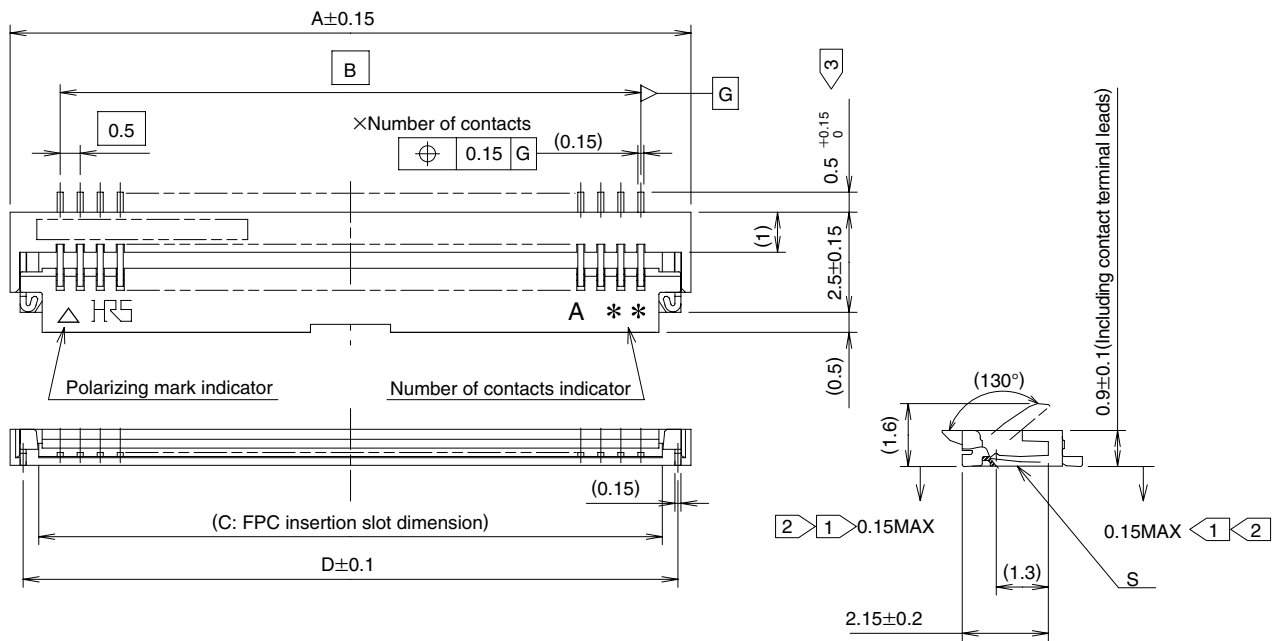
FH 19 C - 30S - 0.5 SH (05)

①
②
③
④
⑤
⑥
⑦

| | |
|---|--|
| ① Series name : FH | ⑤ Contact pitch : 0.5mm |
| ② Series No. : 19 | ⑥ Terminal type SH: SMT horizontal mounting type |
| ③ C : FPC thickness : 0.2mm SC : FPC/FFC thickness : 0.3mm | ⑦ Material and plating specifications : FH19C : (10)...Gold plating with nickel barrier 5,000pieces/reel (99)...Gold plating with nickel barrier 500pieces/reel FH19SC : (09)...Gold plating with nickel barrier 5,000pieces/reel (99)...Gold plating with nickel barrier 500pieces/reel |
| ④ No. of contacts : 4 to 50 | |

Connector Dimension

[FH19C Series]



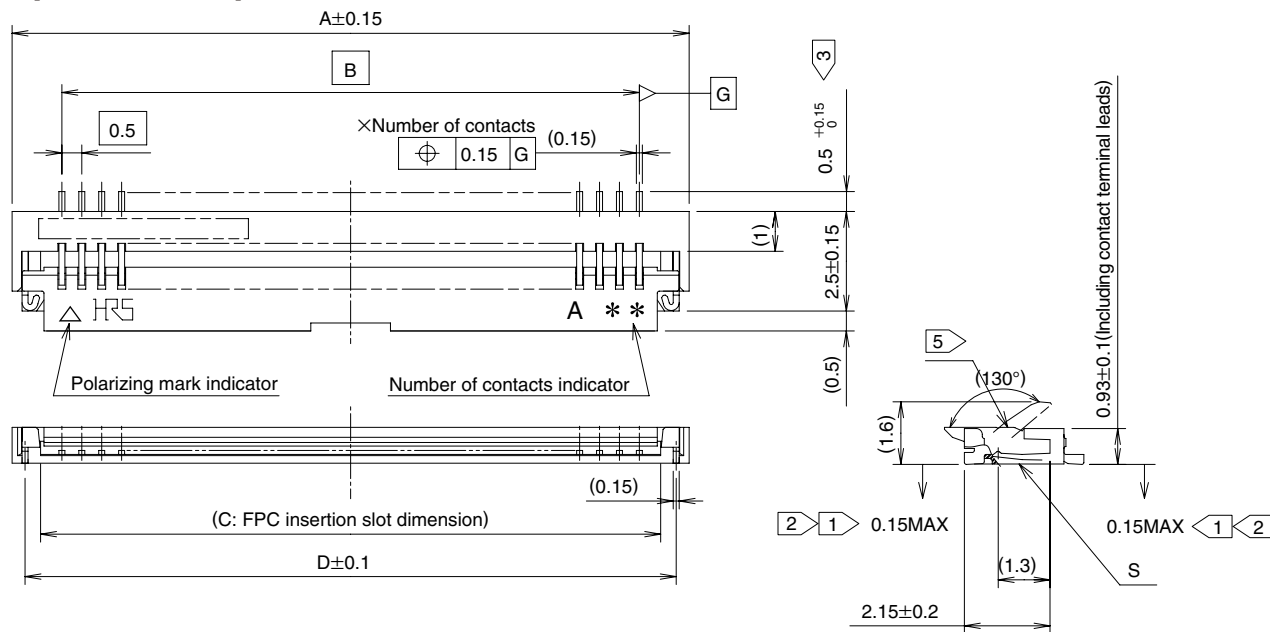
- Notes
- ① The coplanarity of each terminal lead and metal fitting is within 0.1mm.
 - ② The contact terminal lead position indicates the dimension from the bottom surface of the insulator body.
 - ③ Difference between terminal contact to be max. 0.1mm.
 - 4 Packaged on tape and reel only. Check packaging specification.
 - 5 Any discoloration of the plastic compound will NOT AFFECT form, fit or function of the connector.
 - 6 After reflow, the terminal plating may change color, however this does not represent a quality issue.

Unit: mm

| Part Number | CL No. | Number of Contacts | A | B | C | D |
|---------------------|----------------|--------------------|------|------|-------|-------|
| FH19C- 4S-0.5SH(**) | 580-0410-1-**- | 4 | 4 | 1.5 | 2.57 | 3.35 |
| FH19C- 5S-0.5SH(**) | 580-0418-3-**- | 5 | 4.5 | 2 | 3.07 | 3.85 |
| FH19C- 6S-0.5SH(**) | 580-0409-2-**- | 6 | 5 | 2.5 | 3.57 | 4.35 |
| FH19C- 7S-0.5SH(**) | 580-0411-4-**- | 7 | 5.5 | 3 | 4.07 | 4.85 |
| FH19C- 8S-0.5SH(**) | 580-0404-9-**- | 8 | 6 | 3.5 | 4.57 | 5.35 |
| FH19C- 9S-0.5SH(**) | 580-0403-6-**- | 9 | 6.5 | 4 | 5.07 | 5.85 |
| FH19C-10S-0.5SH(**) | 580-0412-7-**- | 10 | 7 | 4.5 | 5.57 | 6.35 |
| FH19C-12S-0.5SH(**) | 580-0413-0-**- | 12 | 8 | 5.5 | 6.57 | 7.35 |
| FH19C-13S-0.5SH(**) | 580-0405-1-**- | 13 | 8.5 | 6 | 7.07 | 7.85 |
| FH19C-15S-0.5SH(**) | 580-0406-4-**- | 15 | 9.5 | 7 | 8.07 | 8.85 |
| FH19C-17S-0.5SH(**) | 580-0408-0-**- | 17 | 10.5 | 8 | 9.07 | 9.85 |
| FH19C-20S-0.5SH(**) | 580-0402-3-**- | 20 | 12 | 9.5 | 10.57 | 11.35 |
| FH19C-21S-0.5SH(**) | 580-0414-2-**- | 21 | 12.5 | 10 | 11.07 | 11.85 |
| FH19C-24S-0.5SH(**) | 580-0407-7-**- | 24 | 14 | 11.5 | 12.57 | 13.35 |
| FH19C-27S-0.5SH(**) | 580-0401-0-**- | 27 | 15.5 | 13 | 14.07 | 14.85 |
| FH19C-30S-0.5SH(**) | 580-0400-8-**- | 30 | 17 | 14.5 | 15.57 | 16.35 |
| FH19C-34S-0.5SH(**) | 580-0419-6-**- | 34 | 19 | 16.5 | 17.57 | 18.35 |
| FH19C-40S-0.5SH(**) | 580-0416-8-**- | 40 | 22 | 19.5 | 20.57 | 21.35 |
| FH19C-50S-0.5SH(**) | 580-0417-0-**- | 50 | 27 | 24.5 | 25.57 | 26.35 |

Note1: Embossed tape reel packaging (5,000 pieces/reel, 500 pieces/reel).
Order by number of reels.

[FH19SC Series]



- Notes
- ① The coplanarity of each terminal lead and metal fitting is within 0.1mm.
 - ② The contact terminal lead position indicates the dimension from the bottom surface of the insulator body.
 - ③ Difference between terminal contact to be max. 0.1mm.
 - ④ Any discoloration of the plastic compound will NOT AFFECT form, fit or function of the connector.
 - ⑤ The contacts are protruding. 0.03mm max. from the housing top surface.
 - ⑥ Packaged on tape and reel only. Check packaging specification.
 - ⑦ After reflow, the terminal plating may change color, however this does not represent a quality issue.

Unit: mm

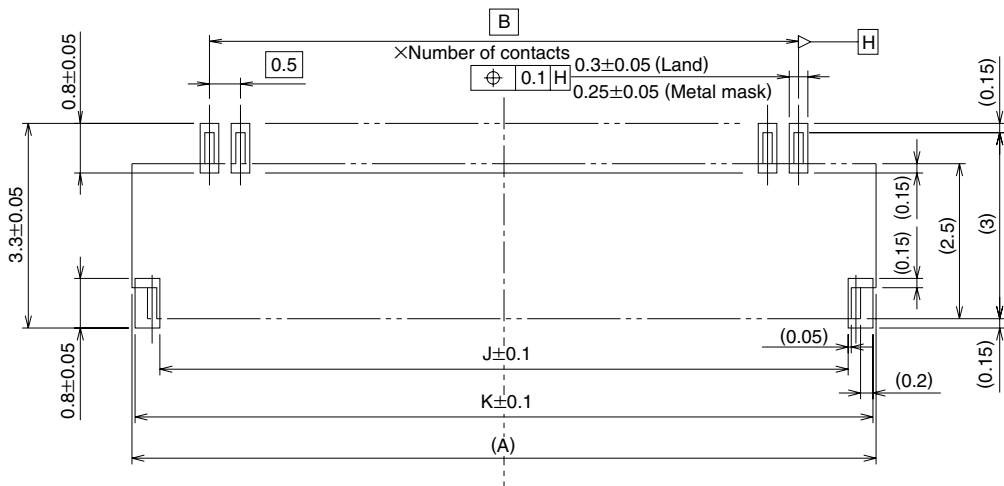
| Part Number | CL No. | Number of Contacts | A | B | C | D |
|----------------------|----------------|--------------------|------|------|-------|-------|
| FH19SC-12S-0.5SH(**) | 580-0512-1-**- | 12 | 8 | 5.5 | 6.57 | 7.35 |
| FH19SC-13S-0.5SH(**) | 580-0518-8-**- | 13 | 8.5 | 6 | 7.07 | 7.85 |
| FH19SC-14S-0.5SH(**) | 580-0509-7-**- | 14 | 9 | 6.5 | 7.57 | 8.35 |
| FH19SC-15S-0.5SH(**) | 580-0503-0-**- | 15 | 9.5 | 7 | 8.07 | 8.85 |
| FH19SC-16S-0.5SH(**) | 580-0521-2-**- | 16 | 10 | 7.5 | 8.57 | 9.35 |
| FH19SC-17S-0.5SH(**) | 580-0504-3-**- | 17 | 10.5 | 8 | 9.07 | 9.85 |
| FH19SC-18S-0.5SH(**) | 580-0519-0-**- | 18 | 11 | 8.5 | 9.57 | 10.35 |
| FH19SC-20S-0.5SH(**) | 580-0502-8-**- | 20 | 12 | 9.5 | 10.57 | 11.35 |
| FH19SC-21S-0.5SH(**) | 580-0505-6-**- | 21 | 12.5 | 10 | 11.07 | 11.85 |
| FH19SC-22S-0.5SH(**) | 580-0506-9-**- | 22 | 13 | 10.5 | 11.57 | 12.35 |
| FH19SC-24S-0.5SH(**) | 580-0511-9-**- | 24 | 14 | 11.5 | 12.57 | 13.35 |
| FH19SC-26S-0.5SH(**) | 580-0510-6-**- | 26 | 15 | 12.5 | 13.57 | 14.35 |
| FH19SC-27S-0.5SH(**) | 580-0516-2-**- | 27 | 15.5 | 13 | 14.07 | 14.85 |
| FH19SC-28S-0.5SH(**) | 580-0513-4-**- | 28 | 16 | 13.5 | 14.57 | 15.35 |
| FH19SC-30S-0.5SH(**) | 580-0500-2-**- | 30 | 17 | 14.5 | 15.57 | 16.35 |
| FH19SC-32S-0.5SH(**) | 580-0514-7-**- | 32 | 18 | 15.5 | 16.57 | 17.35 |

Note1: Embossed tape reel packaging (5,000 pieces/reel, 500pieces/reel) .
Order by number of reels.

Recommended PCB Land and Metal Mask Dimensions

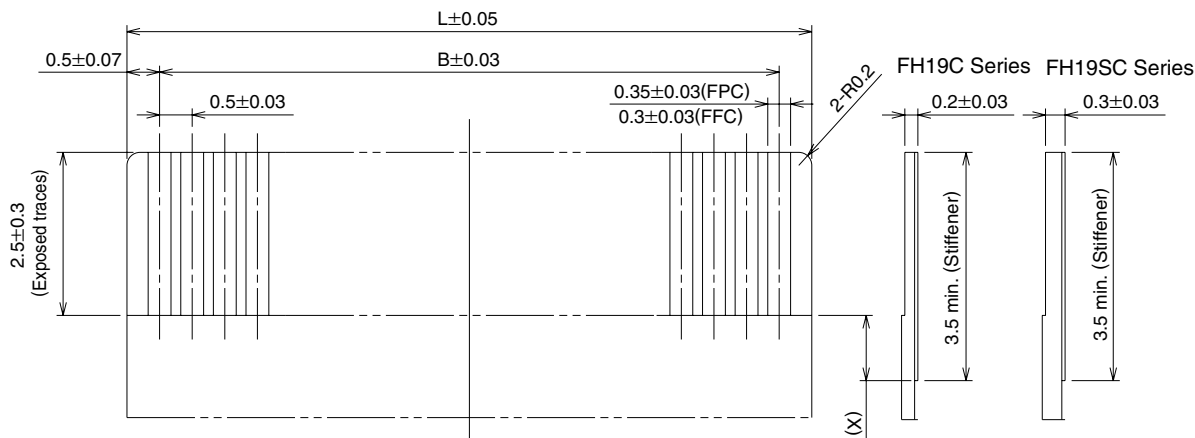
[Common to FH19C & FH19SC Series]

Recommended metal mask thickness: 0.10 mm.



Recommended FPC, FFC Dimensions

[Common to FH19C & FH19SC Series]



Note 1: Stiffener dimension should be 3.5mm min., and X dimension should be 0.5mm for improved flexibility of FPC.

Unit: mm

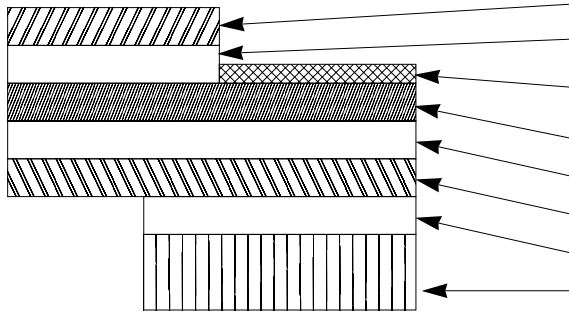
| Number of Contacts | A | B | J | K | L |
|--------------------|------|-----|------|------|-----|
| 4 | 4.0 | 1.5 | 3.1 | 3.9 | 2.5 |
| 5 | 4.5 | 2.0 | 3.6 | 4.4 | 3.0 |
| 6 | 5.0 | 2.5 | 4.1 | 4.9 | 3.5 |
| 7 | 5.5 | 3.0 | 4.6 | 5.4 | 4.0 |
| 8 | 6.0 | 3.5 | 5.1 | 5.9 | 4.5 |
| 9 | 6.5 | 4.0 | 5.6 | 6.4 | 5.0 |
| 10 | 7.0 | 4.5 | 6.1 | 6.9 | 5.5 |
| 12 | 8.0 | 5.5 | 7.1 | 7.9 | 6.5 |
| 13 | 8.5 | 6.0 | 7.6 | 8.4 | 7.0 |
| 14 | 9.0 | 6.5 | 8.1 | 8.9 | 7.5 |
| 15 | 9.5 | 7.0 | 8.6 | 9.4 | 8.0 |
| 16 | 10.0 | 7.5 | 9.1 | 9.9 | 8.5 |
| 17 | 10.5 | 8.0 | 9.6 | 10.4 | 9.0 |
| 18 | 11.0 | 8.5 | 10.1 | 10.9 | 9.5 |

Unit: mm

| Number of Contacts | A | B | J | K | L |
|--------------------|------|------|------|------|------|
| 20 | 12.0 | 9.5 | 11.1 | 11.9 | 10.5 |
| 21 | 12.5 | 10.0 | 11.6 | 12.4 | 11.0 |
| 22 | 13.0 | 10.5 | 12.1 | 12.9 | 11.5 |
| 24 | 14.0 | 11.5 | 13.1 | 13.9 | 12.5 |
| 26 | 15.0 | 12.5 | 14.1 | 14.9 | 13.5 |
| 27 | 15.5 | 13.0 | 14.6 | 15.4 | 14.0 |
| 28 | 16.0 | 13.5 | 15.1 | 15.9 | 14.5 |
| 30 | 17.0 | 14.5 | 16.1 | 16.9 | 15.5 |
| 32 | 18.0 | 15.5 | 17.1 | 17.9 | 16.5 |
| 34 | 19.0 | 16.5 | 18.1 | 18.9 | 17.5 |
| 40 | 22.0 | 19.5 | 21.1 | 21.9 | 20.5 |
| 45 | 24.5 | 22.0 | 23.6 | 24.4 | 23.0 |
| 50 | 27.0 | 24.5 | 26.1 | 26.9 | 25.5 |

FH19C & FH19SC Series FPC/FFC Construction (Recommended Specifications)

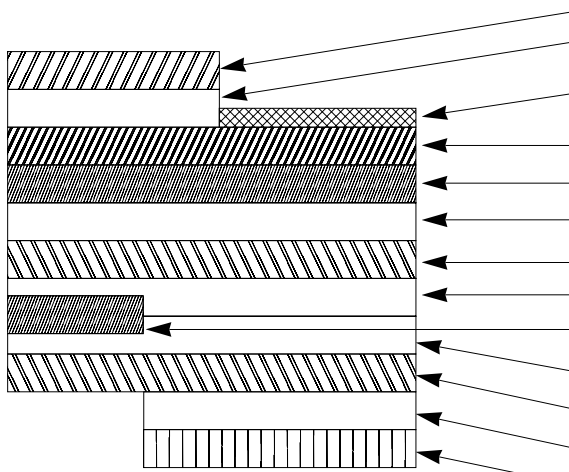
1. Using Single-sided FPC



FPC : Flexible Printed Circuit

| Material Name | Material | Thickness (μm) | |
|---------------------------------|--|----------------|--------|
| | | FH19C | FH19SC |
| Covering layer film | Polyimide 1 mil thick | (25) | (25) |
| Cover adhesive | | (25) | (25) |
| Surface treatment | Nickel under plated 1 to 5μm / Gold plated 0.2μm | 3 | 3 |
| Copper foil | Cu 1oz | 35 | 35 |
| Base adhesive | Thermosetting adhesive | 25 | 25 |
| Base film | Polyimide 1 mil thick | 25 | 25 |
| Reinforcement material adhesive | Thermosetting adhesive | 30 | 30 |
| Stiffener | Polyimide FH19C : 3mil FH19SC : 7mil | 75 | 175 |
| Total | | 193 | 293 |

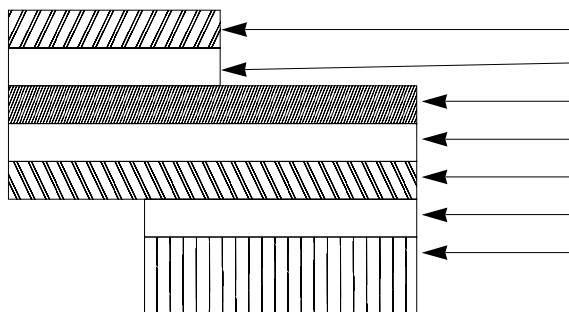
2. Using Double-sided FPC



FPC : Flexible Printed Circuit

| Material Name | Material | Thickness (μm) | |
|---------------------------------|--|----------------|--------|
| | | FH19C | FH19SC |
| Covering layer film | Polyimide 1 mil thick | (25) | (25) |
| Cover adhesive | | (25) | (25) |
| Surface treatment | Nickel under plated 1 to 5μm / Gold plated 0.2μm | 3 | 3 |
| Through-hole copper | Cu | 15 | 15 |
| Copper foil | Cu 1/2oz | 18 | 18 |
| Base adhesive | Thermosetting adhesive | 18 | 18 |
| Base film | Polyimide 1 mil thick | 25 | 25 |
| Base adhesive | | 18 | 18 |
| Copper foil | Cu 1/2oz | 18 | 18 |
| Cover adhesive | Thermosetting adhesive | 25 | 25 |
| Covering layer film | Polyimide 1 mil thick | 25 | 25 |
| Reinforcement material adhesive | Thermosetting adhesive | 25 | 50 |
| Stiffener | Polyimide FH19C : 1mil FH19SC : 4mil | 25 | 100 |
| Total | | 197 | 297 |

3. Using FFC (Flexible Flat Cable)



FFC : Flexible Flat Cable

| Material Name | Material | Thickness (μm) | |
|---|------------------------------|----------------|--------|
| | | FH19C | FH19SC |
| Polyester film | | (12) | (12) |
| Adhesive | Polyester thermoplastic type | (30) | (30) |
| (Nickel under plated / Gold plated), soft copper film | | 35 | 35 |
| Adhesive | Polyester | 30 | 30 |
| Polyester | | 12 | 12 |
| Adhesive | Polyester | 30 | 30 |
| Stiffener | Polyester | 100 | 188 |
| Total | | 207 | 295 |

* Practical tolerance of thickness dimension is $\pm 20\mu\text{m}$ (i.e., 187 to 227 μm).

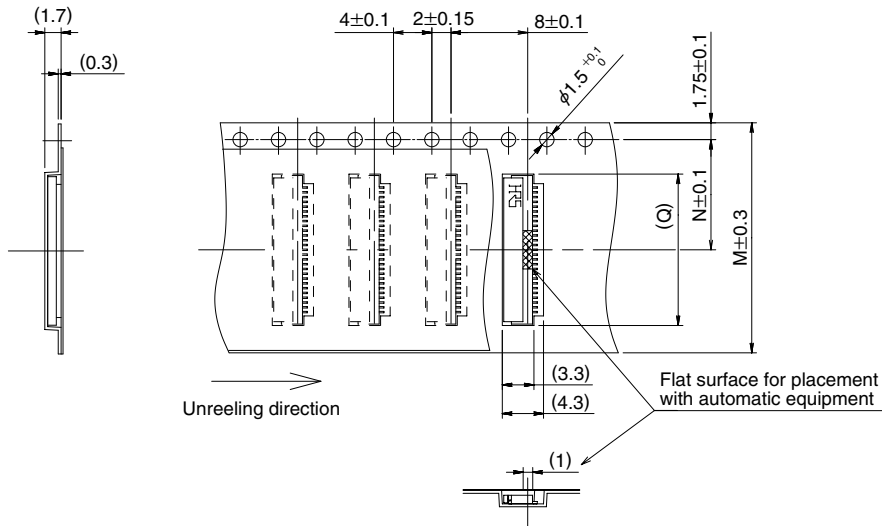
4. Precautions

1. This specification is a recommendation for the construction of the FH19C/FH19SC Series FPC and FFC ($t=0.2/0.3\pm 0.03$).
2. For details about the construction, please contact the FPC/FFC manufacturers.

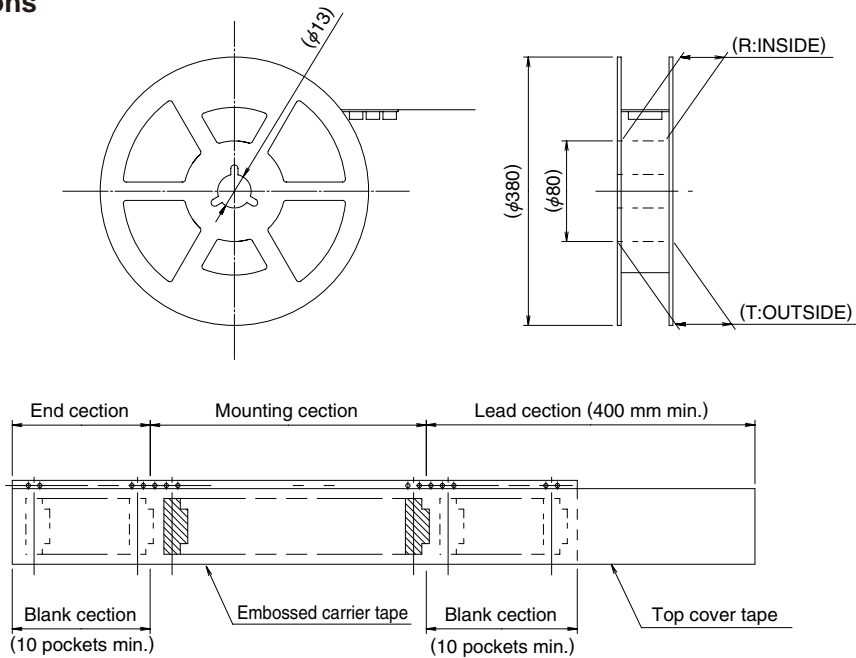
■ Packaging Specifications

[Common to FH19C & FH19SC Series]

● Embossed Carrier Tape Dimensions



● Reel Dimensions



Unit: mm

| Number of Contacts | M | N | Q | R | T |
|--------------------|----|------|------|------|------|
| 4 | 16 | 7.5 | 4.3 | 17.4 | 21.4 |
| 5 | 16 | 7.5 | 4.8 | 17.4 | 21.4 |
| 6 | 16 | 7.5 | 5.3 | 17.4 | 21.4 |
| 7 | 16 | 7.5 | 5.8 | 17.4 | 21.4 |
| 8 | 16 | 7.5 | 6.3 | 17.4 | 21.4 |
| 9 | 16 | 7.5 | 6.8 | 17.4 | 21.4 |
| 10 | 16 | 7.5 | 7.3 | 17.4 | 21.4 |
| 12 | 16 | 7.5 | 8.3 | 17.4 | 21.4 |
| 13 | 16 | 7.5 | 8.8 | 17.4 | 21.4 |
| 14 | 16 | 7.5 | 9.3 | 17.4 | 21.4 |
| 15 | 16 | 7.5 | 9.8 | 17.4 | 21.4 |
| 16 | 24 | 11.5 | 10.3 | 25.4 | 29.4 |
| 17 | 24 | 11.5 | 10.8 | 25.4 | 29.4 |
| 18 | 24 | 11.5 | 11.3 | 25.4 | 29.4 |

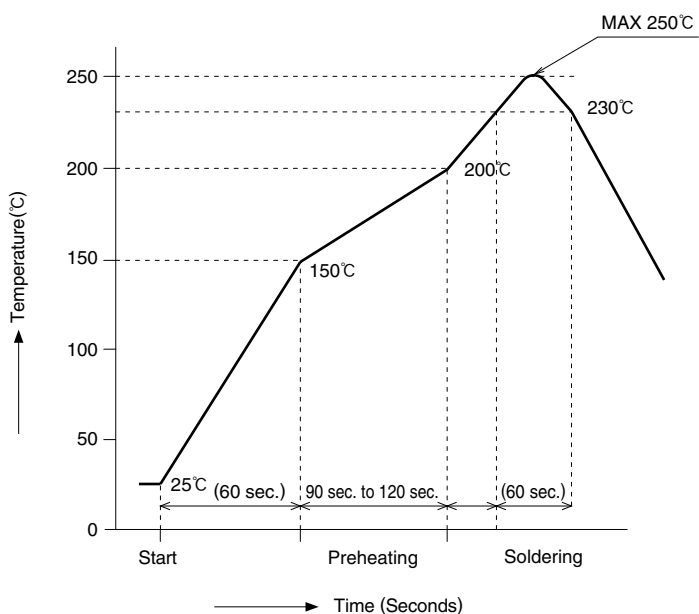
Unit: mm

| Number of Contacts | M | N | Q | R | T |
|--------------------|----|------|------|------|------|
| 20 | 24 | 11.5 | 12.3 | 25.4 | 29.4 |
| 21 | 24 | 11.5 | 12.8 | 25.4 | 29.4 |
| 22 | 24 | 11.5 | 13.3 | 25.4 | 29.4 |
| 24 | 24 | 11.5 | 14.3 | 25.4 | 29.4 |
| 26 | 24 | 11.5 | 15.3 | 25.4 | 29.4 |
| 27 | 24 | 11.5 | 15.8 | 25.4 | 29.4 |
| 28 | 24 | 11.5 | 16.3 | 25.4 | 29.4 |
| 30 | 24 | 11.5 | 17.3 | 25.4 | 29.4 |
| 32 | 32 | 14.2 | 18.3 | 33.4 | 37.4 |
| 34 | 32 | 14.2 | 19.3 | 33.4 | 37.4 |
| 40 | 44 | 20.2 | 22.3 | 45.4 | 49.4 |
| 45 | 44 | 20.2 | 24.8 | 45.4 | 49.4 |
| 50 | 44 | 20.2 | 27.3 | 45.4 | 49.4 |

Note: Embossed tape 32 mm or wider will have perforated feed holes on two sides.

Recommended Temperature Profile

[For FH19C & FH19SC Series]



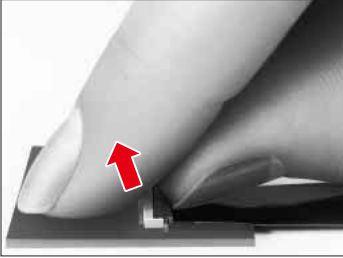
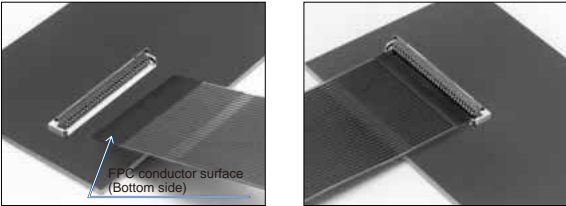
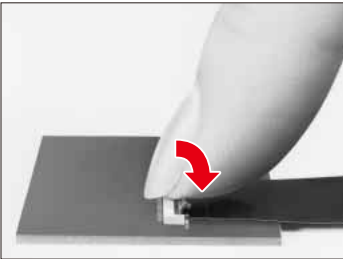
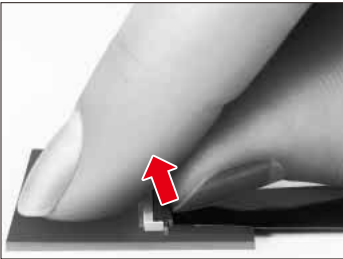
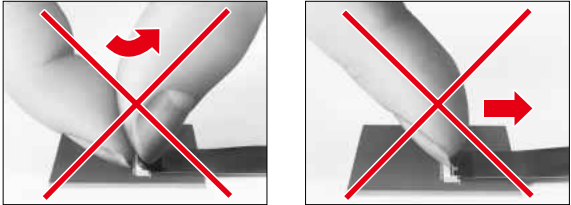
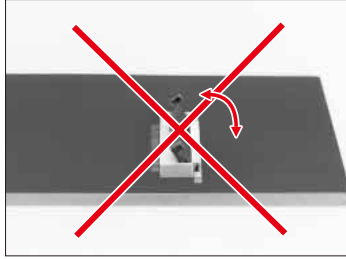
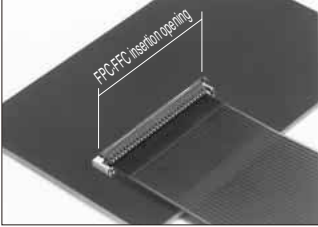
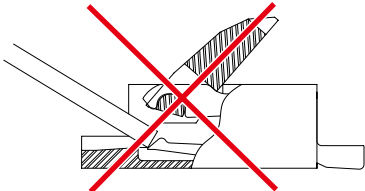
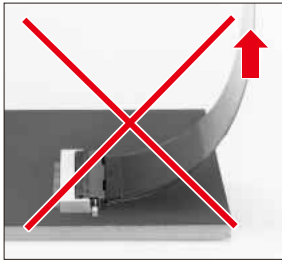
HRS test condition

| | |
|--------------------|---|
| Solder method | :Reflow, IR/hot air |
| Solder composition | :Paste, 96.5%Sn/3.0%Ag/0.5%Cu (Senju Metal Industry, Co., Ltd.'s Part Number:M705-221CM5-32- 10.5) |
| Test board | :Glass epoxy 45mm×100mm×1.6mm thick |
| Land dimensions | :0.3mm×0.8mm |
| Metal mask | :0.25mm×0.8mm×0.1mm |

This temperature profile is based on the above conditions.

In individual applications the actual temperature may vary, depending on solder paste type, volume/thickness and board size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations.

■ Connector Operation and Precautions

| Operation | Precautions |
|--|--|
| <p>1. FPC/FFC Termination procedure. Connector installed on the board.</p> <p>1) Lift up the actuator. Use thumb or index finger.</p>  <p>2) Assure that the FPC/FFC is fully inserted parallel to mounting surface, with the exposed conductive traces facing down.</p>  <p>3) Rotate down the actuator until firmly closed. It is critical that the inserted FPC/FFC is not moved and remains fully inserted. Should the FPC/FFC be moved, open the actuator and repeat the process, starting with Step 1 above.</p>  <p>2. FPC/FFC Removal</p> <p>1) Lift up the actuator. 2) Carefully remove the FPC/FFC.</p>  | <p>1) Do not apply excessive force or use any type of tool to operate the actuator.</p>  <p>2) The connector will assure reliable performance when the actuator is open to 130° maximum. Do not exceed this angle, as this may cause permanent damage to the connector.</p>  <p>3) Insert the FPC/FFC straight into the insertion opening. Failing to follow this precaution can lead to damaging the FPC/FFC and altering its connectivity.</p>  <p>4) When you insert the FPC into the insertion opening, do not apply excessive pressure or scrape the FPC on the bottom of the opening. Doing so can lead to deformities of the contacts and can hinder the performance of the connector.</p>  <p>5) Application of excessive force to the inserted FPC/FFC may cause damage to connector and may affect the reliability of electrical connection. If specific application requires continuous or repeated pull or bend of the inserted FPC/FFC, assure that the forces are NOT transmitted directly to the connector.</p>  |

NOTES :

A series of horizontal dashed lines for taking notes.

USA:

HIROSE ELECTRIC (U.S.A.), INC. Headquarters

2688 Westhills Court, Simi Valley, CA 93065-6235
 Phone : 1-805-522-7958
 Fax : 1-805-522-3217
<http://www.hiroseusa.com>

USA:

HIROSE ELECTRIC (U.S.A.), INC. North California Office

20400 Stevens Creek Blvd., Ste 250, Cupertino, CA 95014
 Phone : 1-408-253-9640
 Fax : 1-408-253-9641
<http://www.hiroseusa.com>

USA:

HIROSE ELECTRIC (U.S.A.), INC. Detroit Office (Automotive)

37677 Professional Center Drive, Suite #100C Livonia, MI 48154
 Phone : 1-734-542-9963
 Fax : 1-734-542-9964
<http://www.hiroseusa.com>

GERMANY:

HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH

Herzog-Carl-Strasse 4 D-73760 Ostfildern (Scharnhäuser Park)
 Phone : 49-711-4560-02-1
 Fax : 49-711-4560-02-299
<http://www.hirose.de>

THE NETHERLANDS:

HIROSE ELECTRIC EUROPE B.V.

Hogehillweg #8 1101 CC Amsterdam Z-0
 Phone : 31-20-6557460
 Fax : 31-20-6557469
<http://www.hiroseeurope.com>

UK:

HIROSE ELECTRIC EUROPE B.V. UK BRANCH

First Floor, St Andrews House, Caldecotte Lake Business Park, Milton Keynes MK7 8LE
 Phone : 44-1908-369060
 Fax : 44-1908-369078
<http://www.hirose.co.uk>

CHINA:

HIROSE ELECTRIC CO., LTD. BEIJING REPRESENTATIVE OFFICE

A1001, Ocean International Center, Building 56# East 4th Ring Middle Road, Chao Yang District, Beijing, 100025
 Phone : 86-10-5165-9332
 Fax : 86-10-5908-1381
<http://www.hirose-china.com.cn>

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO., LTD.

1501-02, Cross Tower Building, 318 Fuzhou Road, Huang Pu District, Shanghai 200001
 Phone : 86-21-6391-3355
 Fax : 86-21-6335-0767
<http://www.hirose-china.com.cn>

CHINA:

HIROSE ELECTRIC CO., LTD. SHENZHEN OFFICE

Room 09-13, 19/F, Office Tower Shun Hing Square, Di Wang Commercial Centre 5002, ShenNanDong Road, ShenZhen City, Guangdong Province, 518008
 Phone : 86-755-8207-0851
 Fax : 86-755-8207-0873
<http://www.hirose-china.com.cn>

HONG KONG:

HIROSE ELECTRIC HONGKONG TRADING CO., LTD.

Unit 1102 A&B, Energy Plaza, 92 Granville Road, Tsim Sha Tsui East, Kowloon
 Phone : 852-2803-5338
 Fax : 852-2591-6560
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TAIWAN:

HIROSE ELECTRIC TAIWAN CO., LTD.

103 8F, No.87, Zhengzhou Rd., Taipei
 Phone : 886-2-2555-7377
 Fax : 886-2-2555-7350
<http://www.hirose-taiwan.com.tw>

SINGAPORE:

HIROSE ELECTRIC CO., LTD.

10 Anson Road #26-16 International Plaza 079903
 Phone : 65-6324-6113
 Fax : 65-6324-6123
<http://www.hirose-singapore.com.sg>

KOREA:

HIROSE KOREA CO., LTD.

1261-10, Jeoungwhang-Dong, Shihung-City, Kyunggi-Do 429-450
 Phone : 82-31-496-7000,7124
 Fax : 82-31-496-7100
<http://www.hirose.co.kr>



HIROSE ELECTRIC CO.,LTD.

6-3,Nakagawa Chuoh-2-Chome,Tsuzuki-Ku,Yokohama-Shi 224-8540,JAPAN
 TEL: +81-45-620-3526 Fax: +81-45-591-3726
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