PRODUCT CATALOG

HIROSE ELECTRIC CO.,LTD.

# DF57 Series

# Low Profile “Swing-Lock” Wire-to-Board Connector for Power (Compliant with UL, C-UL standards)

SnapBee™

Power Supply

Positive-Lock

Low Profile

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Product Page
https://www.hirose.com/en/product/series/DF57

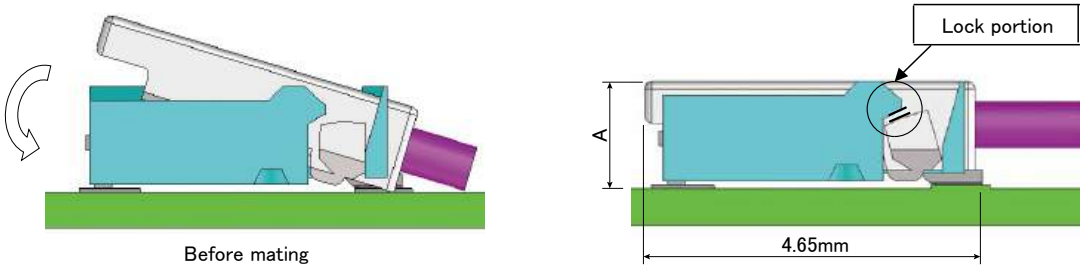
Apr. 2025

# Features

## 1. Reinforced Lock Structure with Swing Lock

A swing-lock mechanism, featuring Hirose's proprietary connection method, reinforces the cable-side lock structure. This design is resistant to cable disengagement under load and supports challenging cable routing.
The connector also includes a guide surface for improved insertability. (Patented)

Swing-Lock Structure explanatory drawing




Before mating

After mating

Mating Height A: DF57H 1.4mm
DF57AH 1.6mm

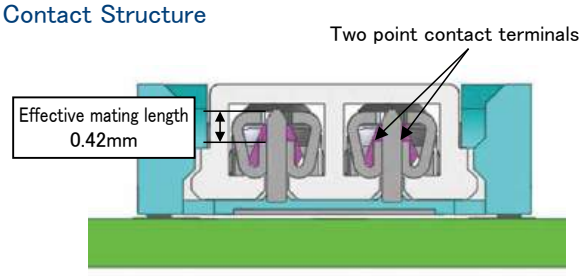
## 2. Header Lock Improves Plug Retention

The header connector is designed to retain the mold lance during engagement, preventing it from slipping and enhancing overall retention strength. (Patented)

## 3. Highly Reliable Contact Structure

Despite its low-profile design (1.4mm stacking height), the connector achieves an effective mating length of 0.42mm. A two-point contact structure ensures high contact reliability.

Contact Structure




Cross-sectional view of the contact surface

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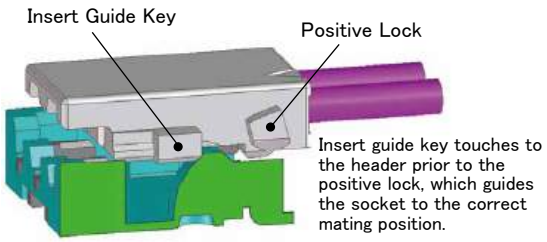
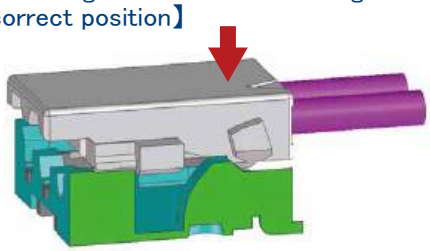
## 4. Insert Guide Key Prevents Misalignment

An insert guide key ensures correct mating alignment, improving operability and preventing potential connector breakage due to incorrect insertion.

【Incorrect Positioning】




【Starts mating after the socket is aligned to the correct position】



Insert Guide Key Structure

## 5. Solder Wicking Prevention

Integral molding eliminates gaps between terminals and housing, effectively preventing solder wicking.

## 6. Case Disengagement Prevention

Retention tabs are integrated in the molding, preventing the case from disengaging with the terminals due to tough electric cable routing and load.

## 7. Cost Effective

Integrating both terminals and retention tabs into the molding reduces assembly complexity and overall cost.

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# Specifications

| | AWG | 2pos. | 3pos. | 4pos. | 5, 6pos. |
|---|---|---|---|---|---|
| Rated Current (Note 1) | 26 | 3.0A/pin | - | 1.5A/pin | 1.5A/pin |
| | 28 | 2.5A/pin | 2.0A/pin | 1.5A/pin | |
| | 30 | 1.5A/pin | | 1.0A/pin | |
| | 32 | 1.0A/pin | | 0.8A/pin | |
| | 34 | 0.8A/pin | | 0.5A/pin | |
| Rated Voltage | 2 to 6pos.: 50V AC/DC<br>2pos. (Middle pin of 3 pos. is removed): 100V AC/DC | | | | |
| Operating Temperature | -35 to +85℃ (Note 2) | | | | |
| Operating Humidity Range | 20 to 80% (Note 3) | | | | |
| Storage Temperature Range | -10 to +60℃ (Note 4) | | | | |
| Storage Humidity Range | 40 to 70% (Note 4) | | | | |

| | UL, C-UL certified specifications | | | | |
|---|---|---|---|---|---|
| | AWG | 2pos. | 3pos. | 4pos. | 5, 6pos. |
| Rated Current (Note 1) | 26 | 3.0A/pin | - | 1.5A/pin | 1.5A/pin |
| | 28 | 2.5A/pin | 2.0A/pin | 1.5A/pin | |
| | 30 | 1.5A/pin | | 1.0A/pin | |
| | 32 | 1.0A/pin | | 0.8A/pin | |
| | 34 | 0.8A/pin | | 0.5A/pin | |
| Rated Voltage | 2 to 6pos.: 29V AC/DC | | | | |

Note 1: This is the allowable current when the indicated current value is applied to all pins.
Note that the current may exceed the rated current when it is applied to multiple circuits.
Note 2: Includes temperature rise caused by current flow.
Note 3: Use without condensation.
Note 4: Storage here refers to the long-term storage condition for unused products before mounting the circuit board.
The operating temperature and humidity ranges are applied while in a non-energized state, while in transport or after PCB mounting.
Note 5: The above standards are representative of this series. Please refer to the "Delivery Specifications" for proper exchange.

| Item | Specification | Condition |
|---|---|---|
| Insulation Resistance | 100MΩ Min. | 100V DC |
| Withstanding Voltage | No insulation breakdown. | 500V AC for 1 min. |
| Contact Resistance | 10mΩ Max. | Measured at 20 mV AC or less 1mA |
| Vibration Resistance | No electrical discontinuity of 1μs or more | Frequency: 10 to 55Hz, Single Amplitude: 0.75mm, 10 cycles each in 3 axes. |
| Shock Resistance | No electrical discontinuity of 1μs or more | Acceleration: 490m/s$^2$<br>Duration: 11ms, half-sine waves 3 times each in both directions |
| Humidity | Contact Resistance: 20mΩ Max.<br>Insulation Resistance: 500MΩ Min. | Temperature: 40±2℃<br>Humidity: 90 to 95%, Leave for 96 hours |
| Temperature Cycle | Contact Resistance: 20mΩ Max.<br>Insulation Resistance: 500MΩ Min. | Temperature: -55 → +5 to +35 → +85 → +5 to +35℃<br>Time: 30 → 2 to 3 → 30 → 2 to 3 minutes<br>5 cycles |
| Mating Durability | Contact Resistance: 20mΩ Max. | 30 times |
| Resistance to Soldering Heat | No melting of the resin part that affects the performance. | Reflow: Recommended Temperature Profile<br>Manual soldering: 350±10℃ for 3 seconds |

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## Material / Finish

| Product | Parts | Material | Color / Finish | UL Flammability Rating | RoHS2 |
|---|---|---|---|---|---|
| Header | Insulation | LCP | Black | UL94V-0 | ○ |
| | | | Beige | | |
| | Contact | Brass | Tin Plated or Gold Plated | - | ○ |
| Crimp Socket | Insulation | PBT | White | UL94V-0 | ○ |
| | | | Black | | |
| | | LCP | Beige | | |
| | | | Black | | |
| Crimp Contacts | Contact | Phosphor Bronze | Tin Plated or Gold Plated | - | ○ |

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# Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

## ■ Header

### ● 1.2mm Pitch

**DF57 H - # P - 1.2 V**
❶ ❷ ❸ ❹ ❺ ❻

| | | | |
|---|---|---|---|
| ❶ Series Name | DF57 | ❹ Connector Type | P: Plug |
| ❷ Insertion Guide Key | H: Yes | ❺ Contact Pitch | 1.2mm |
| ❸ No. of Pos. | 2, 3, 4, 5, 6 | ❻ Connection Part | V: SMT Straight Type |

### ● 2.4mm Pitch

**DF57 H - 2 P - 2.4 V**
❶ ❷ ❸ ❹ ❺ ❻

| | | | |
|---|---|---|---|
| ❶ Series Name | DF57 | ❹ Connector Type | P: Plug |
| ❷ Insertion Guide Key | H: Yes | ❺ Contact Pitch | 2.4mm<br>(3 pos. with middle pin out: product corresponding to rated voltage 100V) |
| ❸ No. of Pos. | 2 | ❻ Connection Part | V: SMT Straight Type |

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## ■ Socket

### ●Applicable Cable Size 28 to 34 AWG

**DF57 # H - # S - 1.2 C**
❶ ❷ ❸ ❹ ❺ ❻ ❼

| | | | |
|---|---|---|---|
| ❶ Series Name | DF57 | ❺ Connector Type | S: Crimp Socket |
| ❷ Applicable Cable Size | None: 28 to 34 AWG | ❻ Contact Pitch | 1.2mm |
| ❸ Insertion Guide Key | H: Yes | ❼ Connection Part | C: Crimp Socket |
| ❹ No. of Pos. | 2, 3, 4, 5, 6 | | |

### ●Applicable Cable Size 26 to 28 AWG

**DF57 A H - # S - 1.2 C**
❶ ❷ ❸ ❹ ❺ ❻ ❼

| | | | |
|---|---|---|---|
| ❶ Series Name | DF57 | ❺ Connector Type | S: Crimp Socket |
| ❷ Applicable Cable Size | A: 26 to 28 AWG | ❻ Contact Pitch | 1.2mm |
| ❸ Insertion Guide Key | H: Yes | ❼ Connection Part | C: Crimp Socket |
| ❹ No. of Pos. | 2, 4, 5, 6 | | |

## ■ Crimp Contact

**DF57 - 2830 SCF A**
❶ ❷ ❸ ❺

| | | | |
|---|---|---|---|
| ❶ Series Name | DF57 | ❸ Type / Packaging Type | SCF: Socket Contact / Reel |
| ❷ Applicable Cable Size | 2628: 26 to 28 AWG<br>2830: 28 to 30 AWG<br>3234: 32 to 34 AWG | ❹ Plating Specifications | None: Tin Plated<br>A: Gold Plated |

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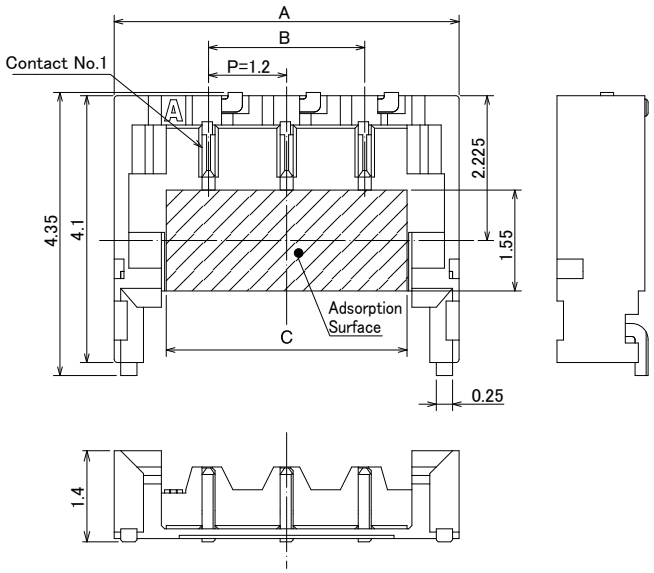
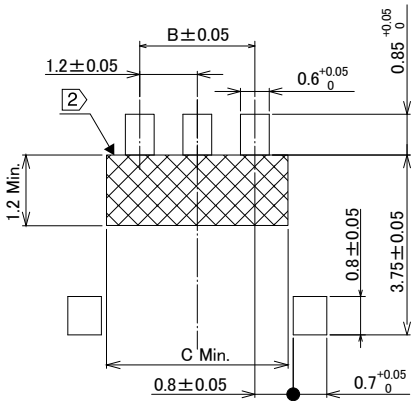
# Straight Pin Header, SMT

## ● 1.2mm Pitch




## Recommended PCB Layout (t=1mm)




Unit : mm

| Part No. | HRS No. | No. of Pos. | A | B | C | Specification No. (Note 2) | | | Purchase Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (21) | (23) | (51) | |
| DF57H-2P-1.2V(##) | CL0666-0104-7-## | 2 | 4.1 | 1.2 | 2.5 | ○ | ○ | ○ | 5,000pcs per reel |
| DF57H-3P-1.2V(##) | CL0666-0105-0-## | 3 | 5.3 | 2.4 | 3.7 | ○ | ○ | | |
| DF57H-4P-1.2V(##) | CL0666-0106-2-## | 4 | 6.5 | 3.6 | 4.9 | ○ | ○ | ○ | |
| DF57H-5P-1.2V(##) | CL0666-0107-5-## | 5 | 7.7 | 4.8 | 6.1 | ○ | | | |
| DF57H-6P-1.2V(##) | CL0666-0108-8-## | 6 | 8.9 | 6 | 7.3 | ○ | | | |

[Specifications] -##, (##)
(21): Tin Plated, Color: Black
(23): Tin Plated, Color: Beige
(51): Gold Plated, Color: Black

Note 1: 2 If there is a pattern on the area and resist is not applied, it may come into contact with the connector terminal.
Note 2: For products for which " ○ " is not indicated in the specification number column, contact a Hirose sales representative.

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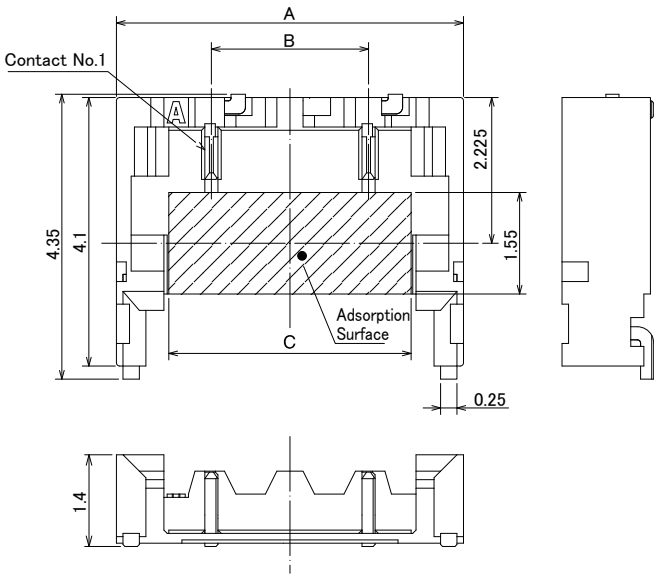
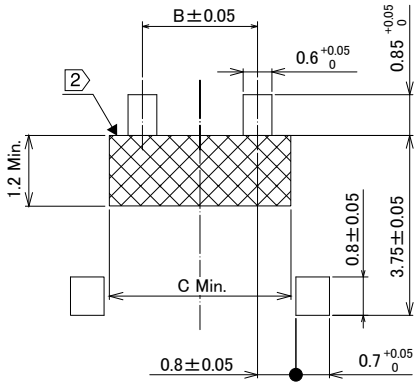
## ●2.4mm Pitch




## Recommended PCB Layout (t=1mm)




Note: 2 If there is a pattern on the area and resist is not applied, it may come into contact with the connector terminal.

Unit : mm

| Part No. | HRS No. | No. of Pos. | A | B | C | Specification No. | | Purchase Unit |
|---|---|---|---|---|---|---|---|---|
| | | | | | | (21) | (23) | |
| DF57H-2P-2.4V(##) | CL0666-0109-0-## | 2 | 5.4 | 2.4 | 3.7 | ○ | ○ | 5,000pcs per reel |

[Specifications] -##, (##)
(21): Tin Plated, Color: Black
(23): Tin Plated, Color: Beige

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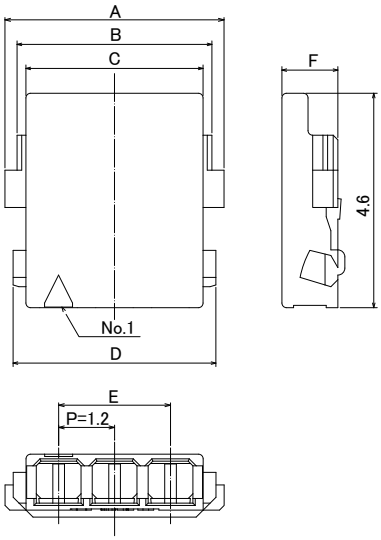
# Crimp Socket




Unit : mm

| Part No. | HRS No. | No. of Pos. | A | B | C | D | E | F | Specification No. | | | Purchase Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | None | (08) | (15) | |
| DF57H-2S-1.2C(##) | CL0666-0100-6-## | 2 | 3.5 | 2.98 | 2.6 | 3.2 | 1.2 | 1.2 | ○ | ○ | ○ | 1,000pcs per bag |
| DF57H-3S-1.2C(##) | CL0666-0012-0-## | 3 | 4.7 | 4.18 | 3.8 | 4.4 | 2.4 | 1.2 | ○ | ○ | ○ | |
| DF57H-4S-1.2C(##) | CL0666-0101-9-## | 4 | 5.9 | 5.38 | 5.0 | 5.6 | 3.6 | 1.2 | ○ | ○ | ○ | |
| DF57H-5S-1.2C(##) | CL0666-0102-1-## | 5 | 7.1 | 6.58 | 6.2 | 6.8 | 4.8 | 1.2 | ○ | ○ | ○ | |
| DF57H-6S-1.2C(##) | CL0666-0103-4-## | 6 | 8.3 | 7.78 | 7.4 | 8.0 | 6.0 | 1.2 | ○ | ○ | ○ | |

[Specifications] -##, (##)
None: Material: PBT, Color: White
(08): Material: LCP, Color: Beige
(15): Material: LCP, Color: Black

## 26 AWG Applicable Connector

Unit : mm

| Part No. | HRS No. | No. of Pos. | A | B | C | D | E | F | Specification No. (Note 2) | | | Purchase Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | None | (10) | (15) | |
| DF57AH-2S-1.2C(##) | CL0666-0112-0-## | 2 | 3.5 | 2.98 | 2.6 | 3.2 | 1.2 | 1.4 | ○ | | ○ | 1,000pcs per bag |
| DF57AH-4S-1.2C(##) | CL0666-0113-0-## | 4 | 5.9 | 5.4 | 5.0 | 5.6 | 3.6 | 1.4 | ○ | | | |
| DF57AH-5S-1.2C(##) | CL0666-0110-0-## | 5 | 7.1 | 6.6 | 6.2 | 6.8 | 4.8 | 1.4 | ○ | | | |
| DF57AH-6S-1.2C(##) | CL0666-0111-2-## | 6 | 8.3 | 7.8 | 7.4 | 8.0 | 6.0 | 1.4 | ○ | ○ | | |

[Specifications] -##, (##)
None: Material: PBT, Color: Black
(10): Material: PBT, Color: White
(15): Material: LCP, Color: Black

Note: For products without " ○ " in the specification number column, please contact a Hirose sales representative.

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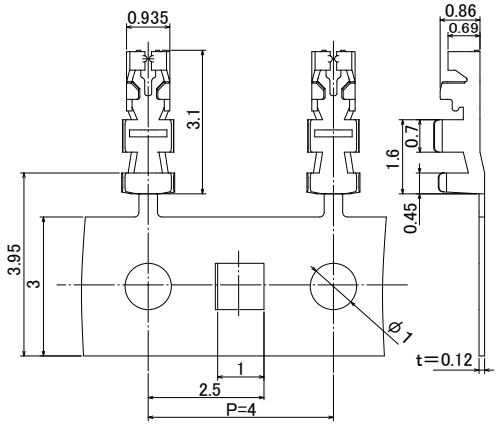
# Crimp Contact




Strip Length: 1.0 to 1.4mm

| Part No. | HRS No. | Finish | Applicable Cable | Applicable Socket Connector | Purchase Unit |
|---|---|---|---|---|---|
| DF57-2628SCF(41) | CL0666-0013-3-41 | Tin Plated | 26 to 28 AWG | DF57AH-#S-1.2C(##) | 35,000pcs per reel |
| DF57-2628SCFA(41) | CL0666-0033-0-41 | Gold Plated | | | |
| DF57-2830SCF | CL0666-0001-4-00 | Tin Plated | 28 to 30 AWG | DF57H-#S-1.2C(##) | 40,000pcs per reel |
| DF57-2830SCFA | CL0666-0034-3-00 | Gold Plated | | | |
| DF57-3234SCF | CL0666-0016-1-00 | Tin Plated | 32 to 34 AWG | | |

## Applicable Cable (Tin Plated Soft Copper Cable)

| Part No. | Conductor Size (Core Wire Configuration) | Jacket Diameter | Recommended Wire |
|---|---|---|---|
| DF57-2628SCF(41)<br>DF57-2628SCFA(41) | 26 AWG (7 / φ 0.16mm) | φ 0.88mm Max. | UL3610 |
| | 28 AWG (7 / φ 0.127mm) | | UL1061 |
| DF57-2830SCF<br>DF57-2830SCFA | 28 AWG (7 / φ 0.127mm) | φ 0.5 to φ 0.63mm | UL1571 (Thin Wire),<br>UL10584 (ETFE Wire) |
| | 30 AWG (7 / φ 0.102mm) | | |
| DF57-3234SCF | 32 AWG (7 / φ 0.08mm) | φ 0.32 to φ 0.54mm | UL1571 |
| | 34 AWG (Note 2) | | - |

Note 1: For conforming wires other than the above, refer to the crimping condition table. The crimping condition table is available from the link of the product number. (If you are using an electric wire that is not listed in the crimping condition table, please contact a Hirose sales representative.)
Note 2: When using 34 AWG, contact a Hirose sales representative.

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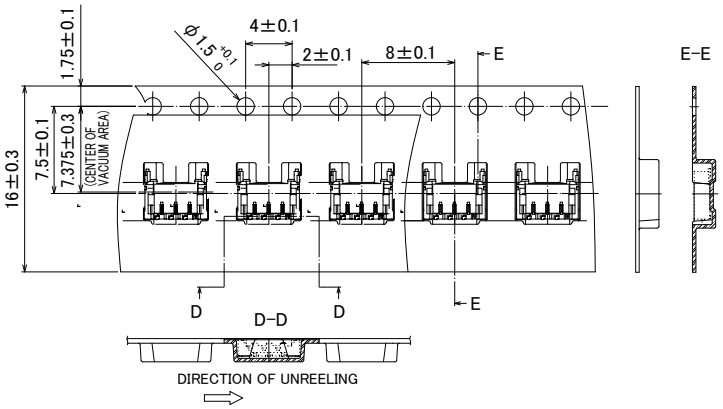
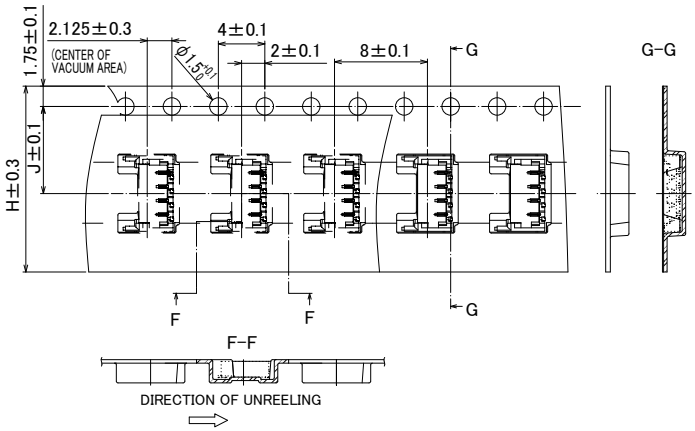
# Packaging Specifications

■DF57H-2P-1.2V(##)
DF57H-3P-1.2V(##)
DF57H-2P-2.4V(##)




■DF57H-4P-1.2V(##)
DF57H-5P-1.2V(##)
DF57H-6P-1.2V(##)




Unit : mm

| Part No. | No. of Pos. | H | J |
|---|---|---|---|
| DF57H-4P-1.2V(##) | 4 | 16 | 7.5 |
| DF57H-5P-1.2V(##) | 5 | 16 | 7.5 |
| DF57H-6P-1.2V(##) | 6 | 24 | 11.5 |

# Applicable Crimping Tool

| Type | Part No. | HRS No. | Applicable Contacts |
|---|---|---|---|
| Applicator | AP105-DF57-2628S | CL0901-4622-2-00 | DF57-2628SCF(41) |
| | | | DF57-2628SCFA(41) |
| | AP105-DF57-2830S | CL0901-4618-5-00 | DF57-2830SCF |
| | AP105-DF57-2830SA | CL0901-4645-0-00 | DF57-2830SCFA |
| | AP105-DF57-3234S | CL0901-4629-1-00 | DF57-3234SCF |
| Press Body | CM-105C | CL0901-0001-0-00 | - |
| Hand Tool | HT305/DF57-2830HC (Note 2) | CL0902-4635-0-00 | DF57-2830SCF |
| Extraction Tool | DF-C-PO(B) | CL0550-0179-2-00 | DF57-####SCF(A) |

Note 1: Crimping work must be performed in accordance with the Crimping Quality Standards and Crimping Conditions Table.
Note 2: When using hand tools, only UL1571 thin wire type (28 to 30 AWG) is used.
Note 3: Problems caused by tools other than those specified by our company are not covered by the warranty.
Note 4: If you do not use a tool specified by our company, please contact a Hirose sales representative to request dies drawing.

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# Crimping Precautions

## ■ Items Required Prior to Starting

The work-related documents shown below are required before starting harness assembly.
(The ● mark shows the document required.)
When the documents shown below are not available, ask a Hirose sales representative to provide them.

| Document Title | Description | Automatic Crimping Machine | Hand Crimping Tool | Remarks |
|---|---|---|---|---|
| ① Crimping Machine Main Unit Instruction Manual | Explanation of main press machine unit | ● | – | Bundled with purchase of main press machine unit. |
| ② Applicator Spare Parts Identification | Explanation for Applicator installation | ● | – | Bundled with purchase of applicator. |
| ③ Crimp Conditions | Standard values of: Crimp height, Tensile strength | ● | – | |
| ④ Crimp Quality Standards | Various standards for crimping conditions | ● | – | |
| ⑤ Operating Instructions for Hand Tool | Inspection items of: Crimp height, Tensile strength, and others | – | ● | Bundled with purchase of hand tool. |
| ⑥ Cable Assembly Instruction | Harness Procedure | ● | ● | Please refer to our website. |

## Tools

When crimping work is applied to our contacts, use the tools designated by Hirose.
*Crimping performed with tools other than those designated should be avoided as it may result in contact failure, disconnection of cable, etc.
*The operating instructions manual is available for the crimping machine and the applicator.
Be sure to carefully read the operating instructions manual before beginning work.

## Applicable Cables

Refer to Crimp Condition Table when using cables other than applicable wire. Crimp Condition Table is available from Part No. link.
(If you are using a cable that is not listed in Crimp Condition Table, please contact a Hirose sales representative.)

[Precautions]
- Cables applicable to crimping connectors are tin-plated stranded soft copper wire.
- Avoid crimping solid wire, wires with polyester threads or tin coated wires.
- Avoid crimping two cables together.
- The crimp height setting values (Note) may vary between tin-plated and gold-plated contacts even if the same electric wires are used.
- The crimp height setting values (Note) may vary depending on the difference in the core wire configuration even if the computed cross-sectional area is the same.

Note: The crimp height is an important item that determines crimping quality.
We execute crimping tests for each electric wire to ensure the optimal value for the crimp height with high precision, thereby ensuring optimal setup values.

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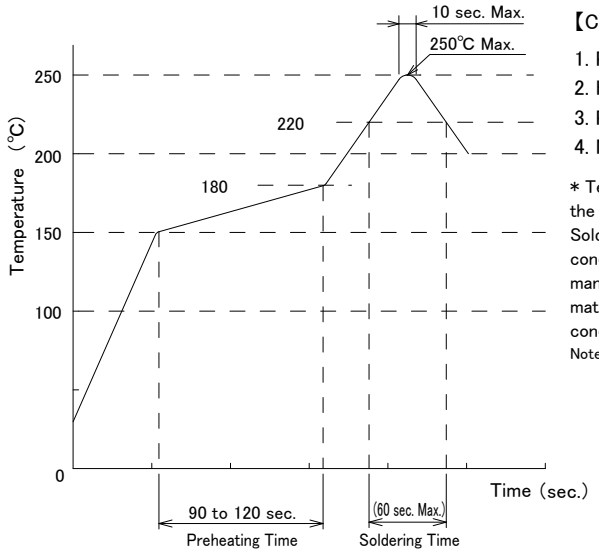
# Precautions

| | |
|---|---|
| 1. Recommended Temperature Profile (Lead-Free Mounting) |  <br>【Conditions】<br>1. Peak Temperature: 250℃ Max.<br>2. Heating: 220℃ Min., within 60 sec.<br>3. Preheating: 150 to 180℃, 90 to 120 sec.<br>4. Number of Reflow Cycles: 2 cycles Max.<br>* Temperature refers to the surface temperature of the board near the connector lead. Soldering results may change depending on the conditions such as solder paste types, manufacturer, PCB size, and other soldering materials, so please fully check the mounting conditions before use.<br>Note: This temperature profile is a recommended value. |
| 2. Recommended manual soldering | Soldering iron temperature: 350±10℃, Soldering Time: Within 3 sec. |
| 3. Recommended Metal Mask Thickness and Open Area to PCB Pattern (Area Ratio) | Thickness: 0.1mm, Aperture Ratio: 100% |
| 4. Board warpage | Max. of 0.02mm at the center in reference to both ends of the connector. |
| 5. Cleaning Conditions | Please refer to the "Product Guidelines (Board-to-Wire Connector Guidelines)".<br>IPA cleaning is possible. (Washing may change the feel of insertion and removal, so washing is not recommended. Please contact us if you want to use other cleaning solutions) |
| 6. Cautions | ■ When inserting the crimping terminal into the crimping socket, to maintain performance reliability, insert crimped terminals horizontally. Avoid inserting them at an angle.<br>■ Refer to the separate "Cable Assembly Instruction for DF57 Series" and "Crimping Condition Table" for handling precautions when harnessing.<br>■ Please note that inserting/removing the terminal while the board is not mounted can cause damage or deformation of the terminal.<br>■ Please note that removing the terminal while holding the wire can cause damage.<br>■ When soldering by hand, do not apply flux that may result in flux rising.<br>■ Depending on the production lot of this product, there may be slight differences in the hue of the molded product. This does not affect product performance. In addition, black spots may appear on the molded resin, but this does not affect the quality of the product. |
| 7. Handling Instructions | Please refer to the materials listed below on our company website when handling this product.<br>■ Crimp Quality Standard<br>■ Cable Assembly Instruction<br>■ Product Guidelines (Mating/Unmating Operation Instruction Manual)<br>■ Product Guidelines (Procedures for Using the Crimp Terminal Extracting Tool)<br>■ Product Guidelines (Board-to-Wire Connector Guidelines) |

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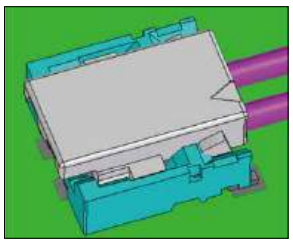
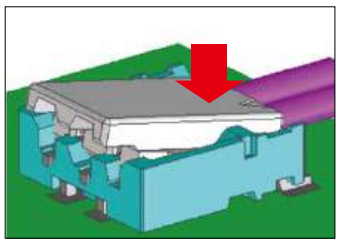
## Operation Precautions

【Mating Operation】

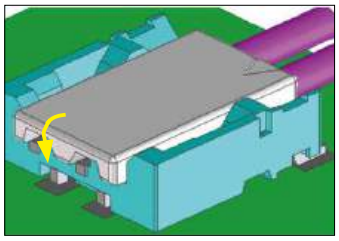
① Determine position, fitting the external form.



② Insert the cable side.

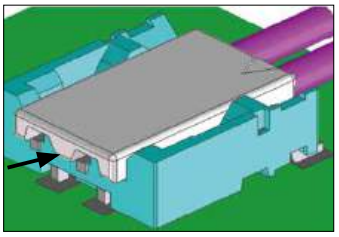


③ Press down at the lever side.

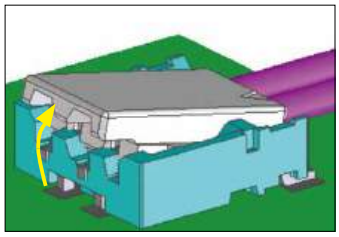


【Unmating Operation】

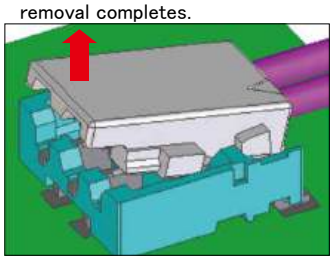
① Hook the lever.



② Pull up and friction lock is released.



③ Positive lock is released, and removal completes.



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## While Taking into Consideration

Specifications mentioned in this catalog are reference values.
When considering to order or use this product, please review the Drawing and Product Specifications sheets.
Use an appropriate cable when using the connector in combination with cables.
If considering usage of a non-specified cable, please contact your sales representative.
If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.
If considering usage for below mentioned applications, please contact your sales representative.
In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/defense etc. Hirose must review before assurance of reliability can be given.



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