Features

1. Floating Structure (Board-to-Board)
The Board-to-Board connector can be used to connect multiple boards together in a co-planar arrangement and features a “Stress free contact” that floats ± 0.5mm in the X, Y and Z dimensions.

2. Swing Lock Structure (Wire-to-Board)
The DF59 features a “swing-lock” mechanism that employs both a positive and friction lock. This helps to prevent the cable assembly from unmating by severe wiring and mechanical stress.

3. Short-Circuit Pin Connector
The Short-Circuit Pin connector allows the termination of an open circuit. Typically used at the end of a series of connected circuit boards.

4. Multi Function Design
The DF59 has the ability to function as either a Board-to-Wire or Board-to-Board System. The PCB mounted receptacle is designed to mate with the B-to-W, B-to-B, and Short Circuit Pin connectors. This multi function ability allows versatility while keeping connectors to a minimum.

5. Performance and Space Savings
The DF59 series offers high performance in a compact, space saving design; featuring a 2mm pitch and coupled with a mated height of only 2.48mm with AWG#22 cable. The single position floating plugs DF59S and DF59SN are specifically designed to save space, and can be mounted in high density applications.

6. Contact Design
The terminal design features two points contact to ensure a highly reliable connection.

7. High Operating Temperature
DF59’s are rated at temperatures up to 105 °C.

8. Common Applicator
Crimping can be performed using the applicator (AP105-DF11-22S) for the existing series DF11-22S C F(A), by replacing the die with the one for DF59 series.
☆ For crimping quality standards and crimping conditions, crimping needs to be performed in accordance with the specific conditions of DF59-22PCFA.

DF59 Series

2mm Pitch, Multi functional Connector System. (Floating [Board-to-Board], Swing-Lock [Wire-to-Board], Short Pin)
## Product Specifications

<table>
<thead>
<tr>
<th>Ratings</th>
<th>Current rating</th>
<th>Operating Temperature</th>
<th>Operating Humidity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3A</td>
<td>-35-105°C</td>
<td>20-80%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage rating</th>
<th>Storage Temperature Range</th>
<th>Storage Humidity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/DC 230V</td>
<td>-10-60°C</td>
<td>40-70%</td>
</tr>
<tr>
<td>AC/DC 350V</td>
<td>(Without the central contact)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Insulation resistance</td>
<td>Over 1000MΩ</td>
<td>Measured at DC 500V</td>
</tr>
<tr>
<td>2. Withstanding voltage</td>
<td>No flashover or breakdown</td>
<td>AC650V / minute.</td>
</tr>
<tr>
<td>3. Contact resistance</td>
<td>50mΩ max. (DF59-*P-2FC/SP, DF59S/SN-1P-FC) 30mΩ max. (DF59-*P-2C)</td>
<td>Under 6V DC, must be Measured by 100mA (DC or 1000Hz)</td>
</tr>
<tr>
<td>4. Vibration</td>
<td>No electrical discontinuity over 1µs.</td>
<td>Frequency 10-55Hz, single amplitude 0.75mm, 3 directions, 10 cycles each</td>
</tr>
<tr>
<td>5. Shock</td>
<td>No electrical discontinuity over 1µs.</td>
<td>Acceleration 490 m/s², 11ms; duration, sine half-wave 3 cycles in each of the 3 axis.</td>
</tr>
<tr>
<td>6. Humidity</td>
<td>Contact resistance 50mΩ max. (DF59-*P-2FC/SP, DF59S/SN-1P-FC) 30mΩ max. (DF59-*P-2C) Insulation resistance 1000MΩ min.</td>
<td>Temperature 40 ± 2°C, humidity 90-95%, left for 96 hours</td>
</tr>
<tr>
<td>7. Temperature cycle</td>
<td>Contact resistance 50mΩ max. (DF59-*P-2FC/SP, DF59S/SN-1P-FC) 30mΩ max. (DF59-*P-2C) Insulation resistance 1000MΩ min.</td>
<td>(-55°C: 30 min. → 5-35°C: 2-3 min. →85°C: 30 min. →5-35°C: 2-3 min.) 5 cycles</td>
</tr>
<tr>
<td>8. Operating Life</td>
<td>Contact resistance 50mΩ max. (DF59-*P-2FC/SP, DF59S/SN-1P-FC) 30mΩ max. (DF59-*P-2C)</td>
<td>Number of insertion and withdrawal force 30 times (DF59-*P-2FC/C) 10 times (DF59-*P-2SP, DF59S/SN-1P-FC)</td>
</tr>
</tbody>
</table>

(Note 1) Including temperature rise caused by current flow.
(Note 2) The term “storage” refers to products stored for long period of time prior to mounting and use.
Operating temperature and humidity range covers connectors after installation, storage, shipment or during transportation.

## Materials

<table>
<thead>
<tr>
<th>Items</th>
<th>Parts</th>
<th>Materials</th>
<th>Treatment</th>
<th>UL Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptacle</td>
<td>DF59</td>
<td>Insulator</td>
<td>LCP</td>
<td>Natural</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact</td>
<td>Phosphor bronze</td>
<td>Gold plated</td>
</tr>
<tr>
<td></td>
<td>DF59S</td>
<td>Contact</td>
<td>Phosphor bronze</td>
<td>Tin plated</td>
</tr>
<tr>
<td>Floating plug</td>
<td>DF59</td>
<td>Insulator</td>
<td>PBT</td>
<td>White</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact</td>
<td>Brass</td>
<td>Gold plated</td>
</tr>
<tr>
<td></td>
<td>DF59S</td>
<td>Insulator</td>
<td>LCP</td>
<td>Natural</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact</td>
<td>Brass</td>
<td>Tin plated</td>
</tr>
<tr>
<td></td>
<td>DF59SN</td>
<td>Insulator</td>
<td>LCP</td>
<td>Natural</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact</td>
<td>Brass</td>
<td>Tin plated</td>
</tr>
<tr>
<td>Short pin</td>
<td>Insulator</td>
<td>PBT</td>
<td>White</td>
<td>UL94V-0</td>
</tr>
<tr>
<td></td>
<td>Contact</td>
<td>Brass</td>
<td>Gold plated</td>
<td></td>
</tr>
<tr>
<td>Crimp case</td>
<td>Insulator</td>
<td>PBT</td>
<td>White</td>
<td>UL94V-0</td>
</tr>
<tr>
<td>Crimp contact</td>
<td>Contact</td>
<td>Phosphor bronze</td>
<td>Gold plated</td>
<td></td>
</tr>
</tbody>
</table>
### Ordering Information

Please refer to the ordering information below for each connector type.

#### Receptacle

<table>
<thead>
<tr>
<th>DF 59</th>
<th>#</th>
<th>*</th>
<th>S</th>
<th>2</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Series Name: DF
2. Series No.: 59
3. None: Standard
   - S: Single contact type (Applied connector DF59S/SN-1P-FC)
4. Pitch: Standard 2mm (4mm: Without the central contact)
   - Single contact type Blank
5. Termination form
   - V: SMT straight type

#### Floating plug

<table>
<thead>
<tr>
<th>DF 59</th>
<th>#</th>
<th>*</th>
<th>P</th>
<th>2</th>
<th>FC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Series Name: DF
2. Series No.: 59
3. None: Standard
   - S: Single contact type
   - SN: Single contact slim type
4. Pitch: Standard 2mm (4mm: Without the central contact)
   - Single contact type Blank
   - Single contact slim type Blank
5. Termination form
   - FC: Floating

#### Short pin

<table>
<thead>
<tr>
<th>DF 59</th>
<th>*</th>
<th>P</th>
<th>2</th>
<th>SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

1. Series Name: DF
2. Series No.: 59
3. Number of contacts: 2, 3
4. Type of connector
   - P: Plug
5. Pitch: 2mm
6. Termination form
   - SP: Short Circuit pin

#### Crimp Socket

<table>
<thead>
<tr>
<th>DF 59</th>
<th>*</th>
<th>P</th>
<th>2</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

1. Series Name: DF
2. Series No.: 59
3. Number of contacts: 2, 3, 4
4. Type of connector
   - P: Plug
5. Pitch: 2mm
6. Termination form
   - C: Crimp Housing

#### Crimp contact

<table>
<thead>
<tr>
<th>DF 59</th>
<th>22</th>
<th>PCFA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

1. Applicable Wire Size
   - 22: AWG#22
2. Form Type/Packaging Type
   - PCFA: Crimp plug contact = Reel
   - PCA: Crimp plug contact = Bulk
   - Crimp contacts are required on the DF59-*P-2C part.
### Straight Receptacle (SMT)

![Image of Straight Receptacle (SMT)]

### Recommended PCB Dimensions (t=1.6mm)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of contacts</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF59-2S-2V(51)</td>
<td>667-0001-051</td>
<td>2</td>
<td>7.2</td>
<td>5.3</td>
<td>2.0</td>
<td>6.0</td>
<td>6.62</td>
</tr>
<tr>
<td>DF59-3S-2V(51)</td>
<td>667-0002-351</td>
<td>3</td>
<td>9.2</td>
<td>7.3</td>
<td>4.0</td>
<td>8.0</td>
<td>8.62</td>
</tr>
<tr>
<td>DF59-4S-2V(51)</td>
<td>667-0003-651</td>
<td>4</td>
<td>11.2</td>
<td>9.3</td>
<td>6.0</td>
<td>10.0</td>
<td>10.62</td>
</tr>
<tr>
<td>DF59-2S-4V(51)</td>
<td>667-0021-851</td>
<td>2*</td>
<td>9.2</td>
<td>7.3</td>
<td>4.0</td>
<td>8.0</td>
<td>8.62</td>
</tr>
</tbody>
</table>

* DF59-2S-4V(51) is made by removing the middle pin of DF59-3S-2V(51) at the factory.

(Note) Please order in full reel quantities. (2,000 pcs/reel)

### Carrier Tape Dimensions

![Image of Carrier Tape Dimensions]

---

(51): Gold plating, emboss packaging

Unit: mm

Unreeling Direction
**Single Contact Type Straight Receptacle (SMT)**

- **Recommended PCB Dimensions (t=1.6mm)**

- **Recommended PCB Layout for parallel positioning**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>[Specification No.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF59S-1S-V(21)</td>
<td>667-0024-6 21</td>
<td>(21): Tin plating, emboss packaging</td>
</tr>
</tbody>
</table>

(Note) Please order in full reel quantities. (10,000 pcs/reel)

**Carrier Tape Dimensions**
DF59 Series
2mm Pitch, Multi functional Connector System. (Floating [Board-to-Board], Swing-Lock [Wire-to-Board], Short Pin)

Floating plug

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of contacts</th>
<th>A</th>
<th>B</th>
<th>Packaged Quantity/Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF59-2P-2FC(50)</td>
<td>667-0006-4 50</td>
<td>2</td>
<td>7.2</td>
<td>2.0</td>
<td>50</td>
</tr>
<tr>
<td>DF59-3P-2FC(50)</td>
<td>667-0007-7 50</td>
<td>3</td>
<td>9.2</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td>DF59-4P-2FC(50)</td>
<td>667-0008-0 50</td>
<td>4</td>
<td>11.2</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>DF59-2P-4FC(50)</td>
<td>667-0020-5 50</td>
<td>2*</td>
<td>9.2</td>
<td>4.0</td>
<td></td>
</tr>
</tbody>
</table>

*DF59-2P-4FC(50) is made by removing the middle pin of DF59-3P-2FC(50) at the factory.
(Note) Please order in full tray quantities. (50 pcs/tray)

Single contact type floating plug

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>[Specification No.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF59S-1P-FC(21)</td>
<td>667-0023-3 21</td>
<td>(21): Tin plating, emboss packaging</td>
</tr>
</tbody>
</table>

(Note) Please order in full reel quantities. (10,000 pcs/reel)

Single contact slim type floating plug

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>[Specification No.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF59SN-1P-FC(21)</td>
<td>667-0028-7 21</td>
<td>(21): Tin plating, emboss packaging</td>
</tr>
</tbody>
</table>

(Note) Please order in full reel quantities. (10,000 pcs/reel)
(Note) Use the special (DF59SN-1P-FC/IN-TOOL) tool for connector insertion.

Insertion Tool

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF59SN-1P-FC/IN-TOOL</td>
<td>667-0040-2 00</td>
</tr>
</tbody>
</table>
### Short pin

![Short pin image]

**DF59 Series** 2mm Pitch, Multi functional Connector System. (Floating [Board-to-Board], Swing-Lock [Wire-to-Board], Short Pin)

**Specifications**
- **Part No.** DF59-2P-2SP(50) 667-0017-050
- **HRS No.** 667-0017-050
- **No. of contacts** 2
- **Dimensions** (A: 7.2, B: 5.9, C: 2.0)
- **Packaged Quantity** 100 pcs/tray

- **Part No.** DF59-3P-2SP(50) 667-0018-350
- **HRS No.** 667-0018-350
- **No. of contacts** 3
- **Dimensions** (A: 9.2, B: 7.9, C: 4.0)

*(Note) Please order in full tray quantities. (100 pcs/tray)*

### Crimp Socket

![Crimp Socket image]

**Specifications**
- **Part No.** DF59-2P-2C 667-0011-400
- **HRS No.** 667-0011-400
- **No. of contacts** 2
- **Dimensions** (A: 7.2, B: 5.9, C: 5.2, D: 2.0)

- **Part No.** DF59-3P-2C 667-0012-700
- **HRS No.** 667-0012-700
- **No. of contacts** 3
- **Dimensions** (A: 9.2, B: 7.9, C: 7.2, D: 4.0)

- **Part No.** DF59-4P-2C 667-0013-000
- **HRS No.** 667-0013-000
- **No. of contacts** 4
- **Dimensions** (A: 11.2, B: 9.9, C: 9.2, D: 6.0)

*(Note) Please order in full pack quantities. (100 pcs/pack)*
**Crimp Contact**

![Crimp Contact Illustration]

**Part No.** | **HRS No.** | **By Type** | **Quantity** | **Treatment**
--- | --- | --- | --- | ---
DF59-22PCFA | 667-0016-8 00 | Reel contact (Note 1) | 10,000 contacts / reel | Gold plated
DF59-22PCA | 667-0022-0 00 | Bulk contact (Note 2) | 100 contacts / pack |

(Note 1) Please order reel contacts by full reel quantities. (10,000 pcs/reel)
(Note 2) Please order loose piece contacts in full pack. (100 pcs/pack)

**Applicable Wire (Tin plated soft copper wire)**

<table>
<thead>
<tr>
<th>Conductor Size (Wire Constitution)</th>
<th>Jacket Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWG#22 (17 /Ø0.16mm)</td>
<td>UL1061 (Ø1.26mm)</td>
</tr>
<tr>
<td></td>
<td>UL3265(Ø1.38mm)</td>
</tr>
</tbody>
</table>

(Note) Please contact your nearest Hirose Sales Representative for information regarding compatible wire. Remarks: Please consult with our sales representative when using wires other than applicable wire.

**Recommended Wire**

UL1061, UL3265

**Strip Length**

1.7-2.3mm

**Applicable Crimping Tool**

<table>
<thead>
<tr>
<th>Types</th>
<th>Part No.</th>
<th>HRS No.</th>
<th>Applicable Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicator</td>
<td>AP105-DF59-22P</td>
<td>901-4619-8 00</td>
<td>DF59-22PCFA</td>
</tr>
<tr>
<td>Press Unit</td>
<td>CM-105</td>
<td>901-0005-4 00</td>
<td>-</td>
</tr>
<tr>
<td>Hand Tool</td>
<td>HT801/DF59-22P</td>
<td>902-4638-9 00</td>
<td>DF59-22PCA</td>
</tr>
<tr>
<td>Extraction Tool</td>
<td>DF-C-PO(B)</td>
<td>550-0179-2 00</td>
<td>DF59-22PCFA DF59-22PCA</td>
</tr>
</tbody>
</table>

Note: Customers are strongly encouraged to utilize HRS application tooling or tooling created by a Hirose tooling partner. Hirose assumes no liability for customers using tooling from non-recognized sources.
Mating Dimensions

Board-to-board connection (floating plug)
[Standard]

Board-to-board connection (floating plug)
[Single contact type]

Board-to-board connection (floating plug)
[Single contact slim type]

Wire-to-board connection

Short-circuit pin connection
### Operating Precautions

<table>
<thead>
<tr>
<th>1. Recommended Temperature Profile (Lead-free soldering possible)</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Temperature Profile Graph]</td>
</tr>
</tbody>
</table>

#### [Applicable Conditions]
1. Peak Temperature: MAX 250°C
2. Heated Area: 220°C or above, within 60 sec.
4. Number of Times: within 2 times

*Measured at contact lead area

Please be noted that the reflow condition may vary depending on soldering paste type, manufacturer of soldering material, board size, as well as conditions of other mounting materials.

*(#1) Above temperature profile is our recommended value.*

<table>
<thead>
<tr>
<th>2. Recommended Hand Solder Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soldering iron temperature: 350 ± 10°C, soldering time: within 3 seconds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Recommended Screen Thickness, Open Ratio (Pattern Area Ratio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness 0.1 mm, Open ratio: 100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Warpage of PC board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum of 0.02mm at the connector center, with both ends of the connector as reference points.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Cleaning Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning with IPA is possible. (Cleaning is not recommended. In case of cleaning, please evaluate if it causes a decrease in the performance which includes mechanical operation and environmental resistance.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>■ When inserting crimp-type (solderless) terminals to crimping (solderless) sockets, to maintain reliable performance, please do not insert obliquely.</td>
</tr>
<tr>
<td>■ DO NOT mate/un-mate a non-terminated plug with a non-mounted receptacles. This may lead to damage or deformation of the contacts.</td>
</tr>
<tr>
<td>■ Please note that pulling on the wires or cable during un-mating may cause damage.</td>
</tr>
<tr>
<td>■ DO NOT apply flux to the contact terminals when hand soldering the receptacle to the board. Flux can wick into the electrical contact areas and may lead to connection failures.</td>
</tr>
<tr>
<td>■ Slight discoloration on the insulating materials will not affect form, fit or function of the connectors.</td>
</tr>
<tr>
<td>■ Please refer to the documents &quot;Cable assembly procedure&quot;, &quot;Crimp condition&quot; and &quot;Crimp quality standard&quot; for the cable assembly procedures.</td>
</tr>
</tbody>
</table>
MEMO:
DF59 Series 2mm Pitch, Multi functional Connector System. (Floating [Board-to-Board], Swing-Lock [Wire-to-Board], Short Pin)

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The characteristics and the specifications contained herein are for reference purpose. Please refer to the latest customer drawings prior to use.
The contents of this catalog are current as of date of 08/2014. Contents are subject to change without notice for the purpose of improvements.