Features

1. Rated up to 30A
   Single position connector can carry current of 30A with 10 AWG conductor. Please refer to Table #1 for current ratings for multi-position connectors using other conductor sizes.

2. Positive Locking Function
   Reliable interior lock protects mated connectors from accidental disconnection. (Fig.1)

3. Prevention of Incorrect Connections
   To prevent incorrect connection when using multiple connectors having the same Number of contacts, 3 product types having different mating configurations are available. (Fig.2)

4. Molded-in contact retention tabs
   Handling of terminated contacts during the crimping is easier and avoids entangling of wires, since there are no protruding metal tabs.

5. Prevention of incorrect board placement
   Built-in posts assure correct connector placement and orientation on the board.

6. Supports resin sealing
   Allows potting up to 10mm.

7. Prevention of Short Circuits Between Adjacent Contacts
   Each Contact is completely surrounded by the housing wall electrically isolating it from adjacent contacts.

8. Increased Retention Force of Crimped Contacts
   Improved pull-out force design.

9. Full Line of Crimp Socket Contacts
   Hirose has released DF22C-*S-7.92C which has easy to push/release latch design. and DF22B-*S-7.92C/DF22C-*S-7.92C which has improved electrical insulation properties.

10. In-line Connections
    Wire-to-wire connection is also available. Space is saved with 2-row (2x2) layout for 4 pos.

11. UL, C-UL, and TÜV Certified.

12. Glow Wire compliance (Compliant with IEC 60695-2-11)
Product Specifications

<table>
<thead>
<tr>
<th>No. of contacts</th>
<th>10 AWG</th>
<th>12 AWG</th>
<th>14 AWG</th>
<th>16 AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30A</td>
<td>25A</td>
<td>20A</td>
<td>15A</td>
</tr>
<tr>
<td>2</td>
<td>25A</td>
<td>20A</td>
<td>18A</td>
<td>15A</td>
</tr>
<tr>
<td>3</td>
<td>22A</td>
<td>18A</td>
<td>15A</td>
<td>13A</td>
</tr>
<tr>
<td>4</td>
<td>22A</td>
<td>18A</td>
<td>15A</td>
<td>13A</td>
</tr>
<tr>
<td>5</td>
<td>22A</td>
<td>18A</td>
<td>15A</td>
<td>13A</td>
</tr>
</tbody>
</table>

Operating temperature range: -55°C to 85°C (Note 2)
Operating humidity range: 20% to 80%
Storage temperature range: 10°C to 60°C (Note 3)
Storage humidity range: 40% to 70% (Note 3)

UL/C-UL/TÜV File No. and Recognition No.
UL: E52653
C-UL: E52653
TÜV: R9950703

Materials / Finish

<table>
<thead>
<tr>
<th>Product / Finish</th>
<th>Specifications</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sockets</td>
<td>Insulator: Polyamide</td>
<td></td>
</tr>
<tr>
<td>Crimp contacts</td>
<td>High conductivity copper alloy</td>
<td></td>
</tr>
<tr>
<td>Headers</td>
<td>Insulator: Polyamide (Glass reinforced)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Color: Natural beige (Note)</td>
<td></td>
</tr>
</tbody>
</table>

DF22 Series 7.92mm Contact Pitch High-Current Connectors for Internal Power Supplies (UL, C-UL and TÜV Listed)

Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

Socket, Header

<table>
<thead>
<tr>
<th>DF22</th>
<th>B</th>
<th>L</th>
<th>2</th>
<th>S</th>
<th>7.92</th>
<th>C (**)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22</td>
</tr>
</tbody>
</table>

Applicable Cable
Blank: UL1015
A: UL1430

Applicable Conductor
1416: 14 to 16 AWG
1012: 10 to 12 AWG

Packaging
SCF: Socket contacts / reel
SC: Socket contacts / pack
PCF: In-line plug contacts / reel
PC: In-line plug contacts / pack

Plating specifications
A: Gold plated
Blank: Tin plated
Diagram of Connector Mating Combinations

Gold-plated products are standard for this product in order to support high current. Be sure to select a gold-plated product for use in an environment with temperature changes and vibration.

<table>
<thead>
<tr>
<th>Crimp socket (Note 2)</th>
<th>Crimp contact for Socket</th>
<th>Retainer (Note 1)</th>
<th>Straight pin header (Note 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22#-*S-7.92C</td>
<td>DF22(A)-*SC(F)(A)</td>
<td>DF22#-*RS/P-7.92</td>
<td>DF22#-*P-7.92DSA</td>
</tr>
</tbody>
</table>

**In-line or Wire-to-Wire Connection**

<table>
<thead>
<tr>
<th>In-line plug</th>
<th>Crimp contact for in-line plug</th>
<th>Retainer (Note 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22#-*EP-7.92C</td>
<td>DF22(A)-*PC(F)(A)</td>
<td>DF22B/C-*RS/P-7.92</td>
</tr>
</tbody>
</table>

**Wire-to-Board Connection**

<table>
<thead>
<tr>
<th>Crimp socket (Note 2)</th>
<th>Crimp contact for Socket</th>
<th>Retainer (Note 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22#-*S-7.92C</td>
<td>DF22(A)-*SC(F)(A)</td>
<td>DF22B/C-*RS/P-7.92</td>
</tr>
</tbody>
</table>

Note 1: Since this product uses thick wires, a larger load is applied to the connector when inserting/extracting or routing the wires. Please use a retainer to reduce the load on the connector.

<table>
<thead>
<tr>
<th>Crimp socket</th>
<th>Applicable Retainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22#-*S-7.92C</td>
<td>DF22#-*RS/P-7.92</td>
</tr>
<tr>
<td>DF22B#-*S-7.92C</td>
<td>DF22B#-*RS/P-7.92</td>
</tr>
<tr>
<td>DF22C#-*S-7.92C</td>
<td>DF22B/C-*RS/P-7.92</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>In-line plug</th>
<th>Applicable Retainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22#-*EP-7.92C</td>
<td>DF22B#-*RS/P-7.92</td>
</tr>
</tbody>
</table>

Note 2: The key difference (L, R) product matches the mating connector of the same key (L, R).
**Crimp Sockets (Standard Height Type)**

Shown with terminated and contacts installed.

1 Pos.

![Type I Diagram](image)

- **Standard Type** (Guide Key: Inside, Color: White)
  - **Part No.**: DF22-1S-7.92C(28)
  - **HRS No.**: 680-1012-2 28
  - **No. of Contacts**: 1
  - **Unit**: mm
  - **Dimensions**: 7.7 mm

- **R Type** (Guide Key: Right Side, Color: Black)
  - **Part No.**: DF22R-1S-7.92C(28)
  - **HRS No.**: 680-1026-7 28
  - **No. of Contacts**: 1
  - **Unit**: mm
  - **Dimensions**: 7.7 mm

- **L Type** (Guide Key: Left Side, Color: Red)
  - **Part No.**: DF22L-1S-7.92C(28)
  - **HRS No.**: 680-1031-7 28
  - **No. of Contacts**: 1
  - **Unit**: mm
  - **Dimensions**: 7.7 mm

**Type I**

- **Height**: Standard type, Standard lock
- **Note**: The part number and HRS No. have changed to reflect the product form change of the 2 to 5 pos. types.

**Standard Type** (Guide Key: Inside, Color: White) **Unit**: mm

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-1S-7.92C(28)</td>
<td>680-1012-2 28</td>
<td>1</td>
<td>8.00</td>
<td>—</td>
</tr>
<tr>
<td>DF22-2S-7.92C(28)</td>
<td>680-1004-4 28</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22-3S-7.92C(28)</td>
<td>680-1005-7 28</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22-4S-7.92C(28)</td>
<td>680-1006-0 28</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
</tbody>
</table>

**R Type** (Guide Key: Right Side, Color: Black) **Unit**: mm

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22R-1S-7.92C(28)</td>
<td>680-1026-7 28</td>
<td>1</td>
<td>8.00</td>
<td>—</td>
</tr>
<tr>
<td>DF22R-2S-7.92C(28)</td>
<td>680-1027-0 28</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22R-3S-7.92C(28)</td>
<td>680-1028-2 28</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22R-4S-7.92C(28)</td>
<td>680-1029-5 28</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
<tr>
<td>DF22R-5S-7.92C(28)</td>
<td>680-1030-4 28</td>
<td>5</td>
<td>39.26</td>
<td>31.68</td>
</tr>
</tbody>
</table>

**L Type** (Guide Key: Left Side, Color: Red) **Unit**: mm

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22L-1S-7.92C(28)</td>
<td>680-1031-7 28</td>
<td>1</td>
<td>8.00</td>
<td>—</td>
</tr>
<tr>
<td>DF22L-2S-7.92C(28)</td>
<td>680-1032-0 28</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22L-3S-7.92C(28)</td>
<td>680-1033-2 28</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22L-4S-7.92C(28)</td>
<td>680-1034-5 28</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
<tr>
<td>DF22L-5S-7.92C(28)</td>
<td>680-1035-8 28</td>
<td>5</td>
<td>39.26</td>
<td>31.68</td>
</tr>
</tbody>
</table>

**Note 1**: Bag packaging (100 pcs/pack). Order by number of packs.
**Note 2**: Every even number position has a different locking design.
**Crimp Sockets (Height, Long Type)**

Shown with terminated and contacts installed.

1 Pos.

![Type IV](image)

Height: Long type, user-friendly operation

2 to 5 Pos.

![Type II](image)

Height: Long type, Standard lock

![Type IV](image)

Height: Long type, Enhanced ergonomic lock

**Type III**

Height: Long type, Standard lock

**Type IV**

Height: Long type, Enhanced ergonomic lock

---

**Standard Type (Guide Key : Inside, Color : White) Unit : mm**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22B-2S-7.92C</td>
<td>680-1097-5</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22B-3S-7.92C</td>
<td>680-1098-8</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22B-4S-7.92C</td>
<td>680-1099-0</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
<tr>
<td>DF22B-5S-7.92C</td>
<td>680-1100-8</td>
<td>5</td>
<td>39.26</td>
<td>31.68</td>
</tr>
</tbody>
</table>

Note 1: Bag packaging (100 pcs/pack). Order by number of packs.

Note 2: Every even number position has a different locking design.

**Standard Type (Guide Key : Inside, Color : White) Unit : mm**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22C-1S-7.92C</td>
<td>680-1101-0</td>
<td>1</td>
<td>8.00</td>
<td>—</td>
</tr>
<tr>
<td>DF22C-2S-7.92C</td>
<td>680-1102-3</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22C-3S-7.92C</td>
<td>680-1103-6</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22C-4S-7.92C</td>
<td>680-1104-9</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
</tbody>
</table>

**R Type (Guide Key : Right Side, Color : Black) Unit : mm**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22CR-3S-7.92C</td>
<td>680-1130-9</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
</tbody>
</table>

**L Type (Guide Key : Left Side, Color : Red) Unit : mm**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22CL-1S-7.92C</td>
<td>680-1133-7</td>
<td>1</td>
<td>8.00</td>
<td>—</td>
</tr>
<tr>
<td>DF22CL-3S-7.92C</td>
<td>680-1135-2</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
</tbody>
</table>

Note 1: Bag packaging (100 pcs/pack). Order by number of packs.

Note 2: Every even number position has a different locking design.
### Straight Header

**Recommended PCB Layout**

(Board thickness : 1.6±0.1)

1 Pos.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>No. of Contacts indicator</th>
<th>Polaritiy mark</th>
<th>Cavity No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-1P-7.92DSA###</td>
<td>680-1013-5 ###</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>10.8</td>
</tr>
<tr>
<td>DF22-2P-7.92DSA###</td>
<td>680-1014-8 ###</td>
<td>2</td>
<td>17.22</td>
<td>7.92</td>
<td>9.3</td>
</tr>
<tr>
<td>DF22-3P-7.92DSA###</td>
<td>680-1015-0 ###</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>8.7</td>
</tr>
<tr>
<td>DF22-4P-7.92DSA###</td>
<td>680-1016-3 ###</td>
<td>4</td>
<td>33.06</td>
<td>23.76</td>
<td>7.2</td>
</tr>
<tr>
<td>DF22-5P-7.92DSA###</td>
<td>680-1017-6 ###</td>
<td>5</td>
<td>40.98</td>
<td>31.68</td>
<td>5.7</td>
</tr>
</tbody>
</table>

2 to 5 Pos.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>No. of Contacts indicator</th>
<th>Polaritiy mark</th>
<th>Cavity No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22R-1P-7.92DSA###</td>
<td>680-1036-0 ###</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>10.8</td>
</tr>
<tr>
<td>DF22R-2P-7.92DSA###</td>
<td>680-1037-3 ###</td>
<td>2</td>
<td>17.22</td>
<td>7.92</td>
<td>9.3</td>
</tr>
<tr>
<td>DF22R-3P-7.92DSA###</td>
<td>680-1038-6 ###</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>8.7</td>
</tr>
<tr>
<td>DF22R-4P-7.92DSA###</td>
<td>680-1039-9 ###</td>
<td>4</td>
<td>33.06</td>
<td>23.76</td>
<td>7.2</td>
</tr>
<tr>
<td>DF22R-5P-7.92DSA###</td>
<td>680-1040-8 ###</td>
<td>5</td>
<td>40.98</td>
<td>31.68</td>
<td>5.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>No. of Contacts indicator</th>
<th>Polaritiy mark</th>
<th>Cavity No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22L-1P-7.92DSA###</td>
<td>680-1041-1 ###</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>10.8</td>
</tr>
<tr>
<td>DF22L-2P-7.92DSA###</td>
<td>680-1042-3 ###</td>
<td>2</td>
<td>17.22</td>
<td>7.92</td>
<td>9.3</td>
</tr>
<tr>
<td>DF22L-3P-7.92DSA###</td>
<td>680-1043-6 ###</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>8.7</td>
</tr>
<tr>
<td>DF22L-4P-7.92DSA###</td>
<td>680-1044-9 ###</td>
<td>4</td>
<td>33.06</td>
<td>23.76</td>
<td>7.2</td>
</tr>
<tr>
<td>DF22L-5P-7.92DSA###</td>
<td>680-1045-1 ###</td>
<td>5</td>
<td>40.98</td>
<td>31.68</td>
<td>5.7</td>
</tr>
</tbody>
</table>

**Standard Type (Guide Key : Inside, Color : Natural Beige)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>Bag Packaging</th>
<th>Tray Packaging</th>
<th>Gold plated</th>
<th>Tin-copper plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-1P-7.92DSA###</td>
<td>680-1013-5 ###</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22-2P-7.92DSA###</td>
<td>680-1014-8 ###</td>
<td>2</td>
<td>17.22</td>
<td>7.92</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22-3P-7.92DSA###</td>
<td>680-1015-0 ###</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22-4P-7.92DSA###</td>
<td>680-1016-3 ###</td>
<td>4</td>
<td>33.06</td>
<td>23.76</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22-5P-7.92DSA###</td>
<td>680-1017-6 ###</td>
<td>5</td>
<td>40.98</td>
<td>31.68</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

**R Type (Guide Key : Right Side, Color : Black)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>Bag Packaging</th>
<th>Tray Packaging</th>
<th>Gold plated</th>
<th>Tin-copper plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22R-1P-7.92DSA###</td>
<td>680-1036-0 ###</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22R-2P-7.92DSA###</td>
<td>680-1037-3 ###</td>
<td>2</td>
<td>17.22</td>
<td>7.92</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22R-3P-7.92DSA###</td>
<td>680-1038-6 ###</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22R-4P-7.92DSA###</td>
<td>680-1039-9 ###</td>
<td>4</td>
<td>33.06</td>
<td>23.76</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22R-5P-7.92DSA###</td>
<td>680-1040-8 ###</td>
<td>5</td>
<td>40.98</td>
<td>31.68</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

**L Type (Guide Key : Left Side, Color : Red)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>Bag Packaging</th>
<th>Tray Packaging</th>
<th>Gold plated</th>
<th>Tin-copper plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22L-1P-7.92DSA###</td>
<td>680-1041-1 ###</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22L-2P-7.92DSA###</td>
<td>680-1042-3 ###</td>
<td>2</td>
<td>17.22</td>
<td>7.92</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22L-3P-7.92DSA###</td>
<td>680-1043-6 ###</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22L-4P-7.92DSA###</td>
<td>680-1044-9 ###</td>
<td>4</td>
<td>33.06</td>
<td>23.76</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>DF22L-5P-7.92DSA###</td>
<td>680-1045-1 ###</td>
<td>5</td>
<td>40.98</td>
<td>31.68</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Note 1: Bag packaging (100 pcs/pack). Order by number of packs.
Note 2: Tray packaging (150 pcs/tray). Order by number of 150.
Note 3: Every even number position has a different locking design.
DF22 Series ● 7.92mm Contact Pitch High-Current Connectors for Internal Power Supplies (UL, C-UL and TÜV Listed)

### Right Angle Header

**Recommended PCB Layout**

(Board thickness : 1.6±0.1)

| No. of contacts | Indicator | Cavity No. | Polarity mark | AØ1.5 | BØ1.6
|-----------------|-----------|------------|---------------|-------|-------
| 2               | 9.25      | 3.7        | 1              | 2.2   | 1.6   |

- **P=7.92**
- **C±0.05**
- **B±0.05**

**Standard Type (Guide Key : Inside, Color : Natural Beige)**

<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>Gold plated</th>
<th>Tin-copper plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-2P-7.92DS(##)</td>
<td>680-1008-5##</td>
<td>2</td>
<td>19.80</td>
<td>15.00</td>
<td>7.92</td>
<td>(36)</td>
<td>(35)</td>
</tr>
<tr>
<td>DF22-3P-7.92DS(##)</td>
<td>680-1009-8##</td>
<td>3</td>
<td>27.72</td>
<td>22.92</td>
<td>15.84</td>
<td>(06)</td>
<td>(05)</td>
</tr>
<tr>
<td>DF22-4P-7.92DS(##)</td>
<td>680-1010-7##</td>
<td>4</td>
<td>35.64</td>
<td>30.84</td>
<td>23.76</td>
<td>(05)</td>
<td></td>
</tr>
<tr>
<td>DF22-5P-7.92DS(##)</td>
<td>680-1011-0##</td>
<td>5</td>
<td>43.56</td>
<td>38.76</td>
<td>31.68</td>
<td>(06)</td>
<td>(05)</td>
</tr>
</tbody>
</table>

**R Type (Guide Key : Right Side, Color : Black)**

<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>Gold plated</th>
<th>Tin-copper plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22R-2P-7.92DS(##)</td>
<td>680-1018-9##</td>
<td>2</td>
<td>19.80</td>
<td>15.00</td>
<td>7.92</td>
<td>(05)</td>
<td></td>
</tr>
<tr>
<td>DF22R-3P-7.92DS(##)</td>
<td>680-1019-1##</td>
<td>3</td>
<td>27.72</td>
<td>22.92</td>
<td>15.84</td>
<td>(06)</td>
<td>(05)</td>
</tr>
<tr>
<td>DF22R-4P-7.92DS(##)</td>
<td>680-1020-0##</td>
<td>4</td>
<td>35.64</td>
<td>30.84</td>
<td>23.76</td>
<td>(05)</td>
<td></td>
</tr>
<tr>
<td>DF22R-5P-7.92DS(##)</td>
<td>680-1021-3##</td>
<td>5</td>
<td>43.56</td>
<td>38.76</td>
<td>31.68</td>
<td>(06)</td>
<td>(05)</td>
</tr>
</tbody>
</table>

**L Type (Guide Key : Left Side, Color : Red)**

<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>Gold plated</th>
<th>Tin-copper plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22L-2P-7.92DS(##)</td>
<td>680-1022-6##</td>
<td>2</td>
<td>19.80</td>
<td>15.00</td>
<td>7.92</td>
<td>(06)</td>
<td>(05)</td>
</tr>
<tr>
<td>DF22L-3P-7.92DS(##)</td>
<td>680-1023-9##</td>
<td>3</td>
<td>27.72</td>
<td>22.92</td>
<td>15.84</td>
<td>(06)</td>
<td>(05)</td>
</tr>
<tr>
<td>DF22L-4P-7.92DS(##)</td>
<td>680-1024-1##</td>
<td>4</td>
<td>35.64</td>
<td>30.84</td>
<td>23.76</td>
<td>(05)</td>
<td></td>
</tr>
<tr>
<td>DF22L-5P-7.92DS(##)</td>
<td>680-1025-4##</td>
<td>5</td>
<td>43.56</td>
<td>38.76</td>
<td>31.68</td>
<td>(06)</td>
<td>(05)</td>
</tr>
</tbody>
</table>

Note 1 : Bag packaging (100 pcs/pack). Order by number of packs.
Note 2 : Every even number position has a different locking design.

### In-line Plug

**Standard Type (Guide Key : Inside, Color : Natural Beige)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22A-2EP-7.92C</td>
<td>680-1054-2</td>
<td>2</td>
<td>18.00</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22A-3EP-7.92C</td>
<td>680-1055-5</td>
<td>3</td>
<td>26.00</td>
<td>15.84</td>
</tr>
</tbody>
</table>

**R Type (Guide Key : Right Side, Color : Black)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22AR-2EP-7.92C</td>
<td>680-1069-0</td>
<td>2</td>
<td>18.00</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22AR-3EP-7.92C</td>
<td>680-1070-9</td>
<td>3</td>
<td>26.00</td>
<td>15.84</td>
</tr>
</tbody>
</table>

**L Type (Guide Key : Left Side, Color : Red)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22AL-2EP-7.92C</td>
<td>680-1074-0</td>
<td>2</td>
<td>18.00</td>
<td>7.92</td>
</tr>
</tbody>
</table>

Note 1 : Bag packaging (100 pcs/pack). Order by number of packs.
Note 2 : Every even number position has a different locking design.
**In-line Plug (Panel Lock Type)**

Shown with terminated and contacts installed.

### 1 Pos.

**Standard Type (Guide Key : Inside, Color : White) Unit : mm**

<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>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-3EP-7.92C</td>
<td>680-1050-1</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>32.14</td>
</tr>
</tbody>
</table>

### R Type (Guide Key : Right Side, Color : Black) Unit : mm

<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>
</tr>
</thead>
<tbody>
<tr>
<td>DF22R-3EP-7.92C</td>
<td>680-1060-5</td>
<td>3</td>
<td>25.14</td>
<td>15.84</td>
<td>32.14</td>
</tr>
</tbody>
</table>

### L Type (Guide Key : Left Side, Color : Red) Unit : mm

<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>
</tr>
</thead>
</table>

### Panel Cutout

**1 Pos.**

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>0.48</td>
</tr>
<tr>
<td>1.6</td>
<td>0.96</td>
</tr>
<tr>
<td>1.2</td>
<td>1.44</td>
</tr>
<tr>
<td>0.8</td>
<td>1.92</td>
</tr>
</tbody>
</table>

Note 1: Bag packaging (100 pcs/pack). Order by number of packs.

Note 2: Every even number position has a different locking design.

---

**Note 1:** Please ensure when mating this connector that the tapered portions of the panel are facing outward towards the receptacle connector's mating interface.
**In-line Double-row Socket**

Shown with terminated and contacts installed.

<table>
<thead>
<tr>
<th>Standard Type (Guide Key : Inside, Color : White)</th>
<th>Unit : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>HRS No.</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>DF22B-4DS-7.92C</td>
<td>680-1142-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>R Type (Guide Key : Right Side, Color : Black)</th>
<th>Unit : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>HRS No.</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>DF22BR-4DS-7.92C</td>
<td>680-1156-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L Type (Guide Key : Left Side, Color : Red)</th>
<th>Unit : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>HRS No.</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>DF22BL-4DS-7.92C</td>
<td>680-1161-2</td>
</tr>
</tbody>
</table>

Note : Bag packaging (100 pcs/pack). Order by number of packs.

**In-line Double-row Plug**

Shown with terminated and contacts installed.

<table>
<thead>
<tr>
<th>Standard Type (Guide Key : Inside, Color : White)</th>
<th>Unit : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>HRS No.</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>DF22-4DEP-7.92C</td>
<td>680-1051-4</td>
</tr>
<tr>
<td>DF22A-4DEP-7.92C</td>
<td>680-1056-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>R Type (Guide Key : Right Side, Color : Black)</th>
<th>Unit : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>HRS No.</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>DF22R-4DEP-7.92C</td>
<td>680-1170-3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L Type (Guide Key : Left Side, Color : Red)</th>
<th>Unit : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>HRS No.</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>DF22L-4DEP-7.92C</td>
<td>680-1175-7</td>
</tr>
<tr>
<td>DF22AL-4DEP-7.92C</td>
<td>680-1189-1</td>
</tr>
</tbody>
</table>

Note : Bag packaging (100 pcs/pack). Order by number of packs.

**Recommended Panel Cutout (Panel mount type)**

Shown with terminated and contacts installed.

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>0.48</td>
</tr>
<tr>
<td>1.6</td>
<td>0.96</td>
</tr>
<tr>
<td>1.2</td>
<td>1.44</td>
</tr>
<tr>
<td>0.8</td>
<td>1.92</td>
</tr>
</tbody>
</table>

Note 1 : Please ensure when mating this connector that the tapered portions of the panel are facing outward towards the receptacle connector's mating interface.
## Retainer

For Standard height, standard lock (Type I)

![Diagram for Standard height, standard lock (Type I)](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-2RS/P-7.92</td>
<td>680-1209-7</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22-3RS/P-7.92</td>
<td>680-1210-6</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22-4RS/P-7.92</td>
<td>680-1211-9</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
<tr>
<td>DF22-5RS/P-7.92</td>
<td>680-1212-1</td>
<td>5</td>
<td>39.26</td>
<td>31.68</td>
</tr>
</tbody>
</table>

Applicable Socket: DF22-*S-7.92C For Standard height, standard lock (Type I)

* indicates number of contacts.

Note: Bag packaging (100 pcs/pack). Order by number of packs.

For Long type, standard lock (Type III)

Long type, enhanced ergonomic lock (Type IV)

![Diagram for Long type, standard lock (Type III)](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>No. of Contacts</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22B/C-2RS/P-7.92</td>
<td>680-1200-2</td>
<td>2</td>
<td>15.50</td>
<td>7.92</td>
</tr>
<tr>
<td>DF22B/C-3RS/P-7.92</td>
<td>680-1201-5</td>
<td>3</td>
<td>23.42</td>
<td>15.84</td>
</tr>
<tr>
<td>DF22B/C-4RS/P-7.92</td>
<td>680-1202-8</td>
<td>4</td>
<td>31.34</td>
<td>23.76</td>
</tr>
<tr>
<td>DF22B/C-5RS/P-7.92</td>
<td>680-1203-0</td>
<td>5</td>
<td>39.26</td>
<td>31.68</td>
</tr>
</tbody>
</table>

Applicable Socket: DF22B-*S-7.92C For Long type, standard lock (Type III)

DF22C-*S-7.92C Long type, enhanced ergonomic lock (Type IV)

DF22-*EP-7.92C

* indicates number of contacts.

Note 1: Bag packaging (100 pcs/pack). Order by number of packs.

Note 2: When connecting retainer into the plug housing, please note the cavity numbers will line up numerically, but the retainer cavity numbers will be upside down compared to the plug cavity numbers.
DF22 Series●7.92mm Contact Pitch High-Current Connectors for Internal Power Supplies (UL, C-UL and TÜV Listed)

**Crimp Contact for Socket**

**For 14 to 16 AWG**

![Diagram of Crimp Contact for Socket (14 to 16 AWG)]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>Applicable cable</th>
<th>Packaging</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-1416SCFA</td>
<td>680-1085-6</td>
<td>Ø2.4 to 3.0mm, 16 AWG, 26/0.254mm, 41/0.26mm</td>
<td>2500/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22A-1416SCFA</td>
<td>680-1087-1</td>
<td>Ø3.0 to 3.8mm, 14 AWG, 41/0.26mm</td>
<td>2000/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22A-1012SCFA</td>
<td>680-1106-4</td>
<td>Ø3.6 to 4.9mm, 12 AWG, 65/0.26mm</td>
<td>2000/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22-1416SCF</td>
<td>680-1000-3</td>
<td>Ø2.4 to 3.0mm, 16 AWG, 26/0.254mm, 41/0.26mm</td>
<td>2500/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22-1416SC</td>
<td>680-1001-6</td>
<td>Ø2.6mm, 16 AWG, 26/0.254mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1416SCF</td>
<td>680-1002-9</td>
<td>Ø3.0 to 3.8mm, 16 AWG, 26/0.254mm</td>
<td>2000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1416SC</td>
<td>680-1003-1</td>
<td>Ø3.2mm, 14 AWG, 41/0.26mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1012SCF</td>
<td>680-1089-7</td>
<td>Ø3.6 to 4.9mm, 12 AWG, 65/0.26mm</td>
<td>2000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1012SC</td>
<td>680-1090-6</td>
<td>Ø4.04mm, 10 AWG, 104/0.26mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
</tbody>
</table>

**Note 1:** The conductor of applicable wire is tin plated annealed copper.
**Note 2:** When using other than the applicable wire, contact your nearest Hirose representative.
**Note 3:** Strip length: 3.5 to 4.5mm

**For 10 to 12 AWG**

![Diagram of Crimp Contact for Socket (10 to 12 AWG)]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>Applicable cable</th>
<th>Packaging</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-1416PCFA</td>
<td>680-2002-4</td>
<td>Ø2.4 to 3.0mm, 16 AWG, 26/0.254mm, 41/0.26mm</td>
<td>2500/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22-1416PCF</td>
<td>680-1078-0</td>
<td>Ø2.4 to 3.0mm, 16 AWG, 26/0.254mm, 41/0.26mm</td>
<td>2500/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22-1416PC</td>
<td>680-1080-2</td>
<td>Ø2.6mm, 16 AWG, 26/0.254mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1416PCF</td>
<td>680-1079-3</td>
<td>Ø3.0 to 3.8mm, 16 AWG, 26/0.254mm</td>
<td>2000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1416PC</td>
<td>680-1081-5</td>
<td>Ø3.2mm, 14 AWG, 41/0.26mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
</tbody>
</table>

**Note 1:** The conductor of applicable wire is tin plated annealed copper.
**Note 2:** When using other than the applicable wire, contact your nearest Hirose representative.
**Note 3:** Strip length: 3.5 to 4.5mm

---

**Crimp Contact for In-line Plug**

![Diagram of Crimp Contact for In-line Plug]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>HRS No.</th>
<th>Applicable cable</th>
<th>Packaging</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF22-1416PCFA</td>
<td>680-2002-4</td>
<td>Ø2.4 to 3.0mm, 16 AWG, 26/0.254mm, 41/0.26mm</td>
<td>2500/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22-1416PCF</td>
<td>680-1078-0</td>
<td>Ø2.4 to 3.0mm, 16 AWG, 26/0.254mm, 41/0.26mm</td>
<td>2500/reel</td>
<td>Gold plated</td>
</tr>
<tr>
<td>DF22-1416PC</td>
<td>680-1080-2</td>
<td>Ø2.6mm, 16 AWG, 26/0.254mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1416PCF</td>
<td>680-1079-3</td>
<td>Ø3.0 to 3.8mm, 16 AWG, 26/0.254mm</td>
<td>2000/reel</td>
<td>Tin plated</td>
</tr>
<tr>
<td>DF22A-1416PC</td>
<td>680-1081-5</td>
<td>Ø3.2mm, 14 AWG, 41/0.26mm</td>
<td>1000/reel</td>
<td>Tin plated</td>
</tr>
</tbody>
</table>

**Note 1:** The conductor of applicable wire is tin plated annealed copper.
**Note 2:** When using other than the applicable wire, contact your nearest Hirose representative.
**Note 3:** Strip length: 3.5 to 4.5mm
**Mated Dimensions**

**Socket to Straight Header Connection**

1 Pos.

- DF22-1S-7.92C(28)
- DF22V-1P-7.92DSA(**)
- DF22V-1P-7.92DSA(#)

2 to 5 Pos.

- DF22-#S-7.92C(28)
- DF22V-#P-7.92DSA(**)
- DF22V-#P-7.92DSA(#)

**Socket to Right Angle Header Connection**

- DF22B/C-1RS/P-7.92
- DF22B/C-1RS/P-7.92

**Socket to In-line Plug (Panel lock type) Connection**

- DF22-#EP-7.92C
- DF22V-#S-7.92C(28)
- DF22B/C-#RS/P-7.92
- DF22B/C-#RS/P-7.92

**Socket to In-line Plug Connection**

- DF22A-#EP-7.92C
- DF22A-#EP-7.92C
- DF22B/C-#RS/P-7.92
- DF22B/C-#RS/P-7.92

**In-line Double-row socket to In-line Double-row Plug (Panel lock type) Connection**

- DF22B/-4DS-7.92C
- DF22C/-4DS-7.92C

**In-line Double-row socket to In-line Double-row Plug Connection**

- DF22A/-4DEP-7.92C
- DF22C/-4DEP-7.92C
**Tools**

<table>
<thead>
<tr>
<th>Type</th>
<th>Item</th>
<th>Part No.</th>
<th>HRS No.</th>
<th>Applicable Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic</td>
<td>Press unit CM-105C</td>
<td>901-0001-0</td>
<td>DF22/DF22A-1416SCF/PCF/SCFA</td>
<td></td>
</tr>
<tr>
<td>Applicators used in automatic crimping machines manufactured by Hirose Electric</td>
<td>AP105-DF22-1416</td>
<td>901-4576-7</td>
<td>DF22-1416SCF/PCF/SCFA/SCFA/PCFA</td>
<td></td>
</tr>
<tr>
<td>Applicators used in automatic crimping machines manufactured by other companies</td>
<td>AP109A-DF22-1416</td>
<td>901-4579-5</td>
<td>DF22-1416SCF/PCF/SCFA/PCFA/SCFA/PCFA</td>
<td></td>
</tr>
<tr>
<td>Applicator manufactured by JAPAN AUTOMATIC MACHINE (Note 5)</td>
<td>CHS893800H-UP</td>
<td>901-4580-4</td>
<td>DF22A-1416SCF/PCF/SCFA/PCFA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP109A-DF22A-1012</td>
<td>901-4582-0</td>
<td>DF22A-1012SCF/SCFA</td>
<td></td>
</tr>
<tr>
<td>Manual</td>
<td>Crimp tools HT104/DF22-1416</td>
<td>550-0285-0</td>
<td>DF22A-1416SCF/PCF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HT104/DF22A-1416</td>
<td>550-0286-2</td>
<td>DF22A-1416SC/PC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HT103/DF22A-1012</td>
<td>550-0288-8</td>
<td>DF22A-1012SC</td>
<td></td>
</tr>
</tbody>
</table>

Note 1: When crimping contact DF22A-1012SCF use a press with 3.5 ton min.
Note 2: AP109A type applicators cannot be used with the CM-105C press.
Note 3: Any problems that occur from using tools other than those specified by Hirose, are not covered by warranty.
Note 4: Attachment for Hirose original applicator is required separately. Please contact press manufacturer about the attachment.
Note 5: Applicator manufactured by JAPAN AUTOMATIC MACHINE (J.A.M.). Please access to HP of J.A.M., if you make inquiries about the applicator or crimp defect. (URL : http://www.jam-net.co.jp)
Note 6: Please follow the “Crimping quality standards” and “Table of crimping conditions” when crimping contacts.

**Contact Extraction**

- Contact extraction tool : Flat-bladed screwdriver, 1.4mm blade width
- Intended crimp Contacts: DF22-1416SC(F), DF22-1416SCFA, DF22A-1416SC(F), DF22A-1416SCFA, DF22A-1012SCF, DF22A-1012SCFA, DF22-1416PC(F), DF22-1416PCFA, and DF22A-1416PC(F)

**Work Method**

1. Refer to the drawing No. 1. Insert correct size screwdriver in the housing against the molded-in lance. Push down the lance as shown.
2. Assure that the lance is deflected to release the contact and pull-out wire with the crimped contact.

**Caution**

There are parts on the crimp contact that can cause injuries, please use caution when unmating the contacts.
Precautions

1. Gold-plated products are standard for this product in order to support high current. Be sure to select a gold-plated product for use in an environment with temperature changes and vibration.

2. If this product is used outside the specifications, evaluate it in the final set to confirm that there are no problems in use.

3. No outdoor use.

4. Notification for harness assembly

<table>
<thead>
<tr>
<th>1) When inserting the crimping terminal to the crimping socket, please do not tilt the crimping terminal or twist the cable. Insertion at tilted angles or twisting the cable may cause deformation of the crimping terminal or crimping socket.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2) After inserting the crimping terminal to the crimping socket, please make sure that the lance has been hooked with pulling the cable lightly. When checking the hook, please avoid bending the cable for preventing terminal drop-off.</td>
</tr>
<tr>
<td>3) Bundle cables/Canbyre Cables Recommend bundle and strip position of cables are 100mm or more. Bundling close to the connectors may cause terminal drop-off, breaking cables and unstable connection.</td>
</tr>
</tbody>
</table>

5. Notification for Insertion Extraction

<table>
<thead>
<tr>
<th>1) Please insert(extract) the crimping socket straight to the mating connector. Insertion(extraction) at tilted angles applies load concentration to the connector end and may cause deformation (at connection area, socket and header case, etc). There is firing risk using this kind of deformed connector.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2) When it is hard to extract, please lightly insert the connector beforehand and then pull it with releasing the lock. Forced extraction has a risk of connector breakage.</td>
</tr>
</tbody>
</table>

6. Notification of wiring

<table>
<thead>
<tr>
<th>1) When using a thick cable, short cable length and bending close to the connector end, these load concentration may cause deformation. Please note that there is firing risk using deformed connector. When installing, please refrain from stress concentration such as cable bending close to the connector end or cable twisting.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2) When using a thick cable, short cable length and bending close to the connector end, these load concentration may cause deformation. Please note that there is firing risk using deformed connector. When installing, please refrain from stress concentration such as cable bending close to the connector end or cable twisting.</td>
</tr>
</tbody>
</table>

Current Ratings

The current rating listed in the catalog indicates the allowable current per contact. However, in applications requiring current transmission through all the contacts, about one-third of the listed rating should be applied.

When the current rating for the connector is 3A, and the allowable current of the conductor being used is 1A, then rating of 1A will be used for the entire assembly.

The connectors should not be mating/unmating when the electrical current is being applied.

Hot swap should not be performed.