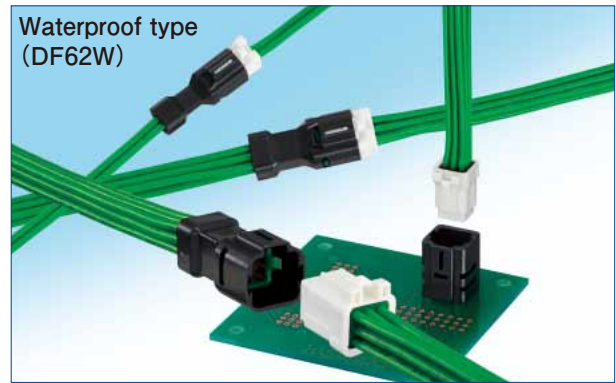
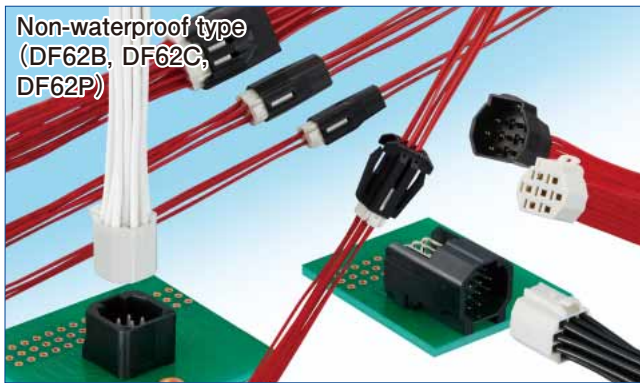


# 2 x 2.2mm Pitch, Wire-to-Wire Connectors for Small Spaces

DF62 Series / DF62W Series

(UL, C-UL Listed)



## ■ Features

### 1. The slim, sleek design and smooth contour combine to complete connections in tight spaces.

These connectors were designed to take full advantage of small/narrow spaces. The contacts are arranged in a grid pattern which shortens the diagonal distances and the body was slimmed down by creating smooth outer surfaces. This design helps to save precious space and makes these connectors virtually tangle free. There is no visible or exposed metal which would eliminate the possibility of electrical arcing between the connector and the inside of a metal conduit. (Please refer to Fig. 1 and 2)

### 2. Secure lock mechanism

The locking structure emits a clear tactile click upon lock completion. After completion, a second indicator can be utilized. The socket lock can be visually checked through the plug window after mating. These indicators function together to prevent incomplete mating. (Please refer to Fig. 3)

### 3. Reliable contact structure

The structure utilizes two contact points to provide a reliable contact that resists damage from vibration and rough operation.

### 4. Robust contact structure

The unique structure provides protection to the contacts and lance areas, it prevents any bending or deformity that might occur during mating, the assembly procedure or while in transportation. (Please refer to Fig. 4)

### 5. Multiple variations available

There are several different wire counts available, giving the designer the variety needed to complete the application. Protected lock type, panel mount type and pin header type are also available.

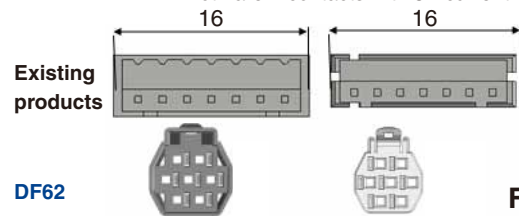
### 6. Applicator sharing

The applicators for the DF11 and DF59 series (existing products) can be adapted to accommodate the DF62 series applicators. \*Some modifications are required. Please contact Hirose for additional details.

### 7. Water-resistant type (DF62W)

IP67 water-resistance occurs only in the mated condition. (Please refer to Fig. 5)

Compact shape due to 2 x 2.2 grid layout of pins  
\*Both are 7 contacts with 3A current rating



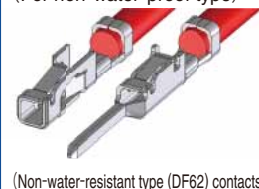
Grid Arrangement    Smooth external shape    No exposed metal



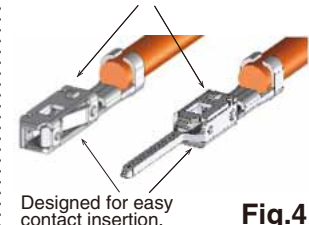
Visual check for complete mating



Image of the outward appearance of the contact  
(For non-water-proof type)



(Water-resistant type (DF62W))  
Robust box-shaped contact structure



Condensation prevention measure  
(Water-resistant type, IP67 rated)



## Product Specifications

|         |        |                         |  |             |  |                             |  |
|---------|--------|-------------------------|--|-------------|--|-----------------------------|--|
| Ratings | DF62   | Current Rating (Note 1) | 22 AWG : 4A/pin (2 pos.)<br>3A/pin (3 - 13 pos.)<br>2.5A/pin (24 pos.)   |             |  | Operating Temperature Range | -35 to 105°C (Note 2)<br>UL/C-UL -35 to 75°C (Note 2, 5) |
|         |        |                         | 24 AWG : 2A/pin<br>26-30 AWG : 1A/pin  |             |  | Operating Humidity Range    | 20 ~ 80% (Note 3)  |
|         | DF62W  | Current Rating (Note 1) | 20 AWG : 5A (2 pos.), 3.5A/pin (3 to 9 pos)<br>22 AWG : 4A (2 pos.), 3A/pin (3 to 9 pos)<br>24 AWG : 3.5A (2 pos.), 2A/pin (3 to 9 pos)<br>26 AWG : 3A (2 pos.), 1A/pin (3 to 9 pos) |             |  | Operating Temperature Range | -40 to 105°C (Note 2)<br>UL/C-UL -40 to 75°C (Note 2, 5) |
|         |        |                         |  |             |  | Operating Humidity Range    | 20 to 80% (Note 3)                                       |
|         | Common | Voltage Rating          | Specifications   | AC/DC 250V  | UL File name<br>UL : E52653<br>C-UL : E52653 | Storage Temperature Range   | -10 to 60°C (Note 4)                                     |
|         |        |                         | UL/C-UL (Note 5)   | AC/DC 29.9V |  | Storage Humidity Range      | 40 to 70% (Note 4)                                       |

| Items                    | Specifications   | Conditions   |
|--------------------------|--|--|
| 1. Insulation Resistance | Minimum of 1,000MΩ   | Measured with DC 500V  |
| 2. Withstanding Voltage  | No flashover or breakdown  | Apply AC 650V for 1 minute   |
| 3. Contact Resistance    | Maximum of 30mΩ  | Measured at a maximum of 20mV and 100mA (DC or 1000Hz)   |
| 4. Vibration Resistance  | No electrical discontinuity of 1μs or longer                                       | 10 cycles in each of three directions at frequency 10-55Hz, half amplitude 0.75mm                          |
| 5. Shock Resistance      | No electrical discontinuity of 1μs or longer                                       | Acceleration : 490m/s <sup>2</sup> , 11 ms, Semi-sinusoidal 3 axle direction 3 times each.                 |
| 6. Humidity Resistance   | Contact Resistance Maximum of 30mΩ<br>Insulation Resistance : Minimum of 1,000MΩ   | Left at temperature 40 ±2°C, humidity 90 to 95%, 96 hours  |
| 7. Temperature Cycles    | Contact Resistance : Maximum of 30mΩ<br>Insulation Resistance : Minimum of 1,000MΩ | -55°C : 30 minutes → 5 to 35°C : 2 to 3 minutes → 85°C : 30 minutes → 5 to 35°C : 2 to 3 minutes, 5 cycles |
| 8. Durability            | Contact Resistance : Maximum of 30mΩ   | Mating/unmating : 30 mating cycles   |

Note 1 : This is the maximum current rating while all pins are powered or used as all power lines. When isolating power lines into multiple circuits, current ratings may go above the stated current ratings. Please consult Hirose for specific details before doing this.

Note 2 : Includes the temperature rise of power lines

Note 3 : The connector should be completely dry (no condensation present)

Note 4 : The term "storage" refers to the long-term storage condition of unused products before PCB mounting. The operating temperature and humidity ranges are applied while in a non-energized state, while in transport or after PCB mounting.

Note 5 : Header type are UL/C-UL pending.

## Materials / Finish

| Item                    | Component     | Material           | Finish  | UL Flammability rating      |         |
|-------------------------|---------------|--------------------|---|-----------------------------|---------|
| Socket crimping contact | Contact       | Phosphorous bronze | Gold plating or tin plating                                     | -                           |         |
| Plug crimping contact   | Contact       | Phosphorous bronze | Gold plating or tin plating                                     | -                           |         |
| Crimping socket         | Insulator     | PBT                | White   | UL94V-0                     |         |
| Crimping plug           | Insulator     | PBT                | Black   | UL94V-0                     |         |
| Crimping socket *       | Seal          | Silicone rubber    | Bengala   | -                           |         |
| Crimping plug *         |               |                    |   |                             |         |
| Header                  | Insulator     | DF62               | Straight pin header : Polyamide<br>Right angle pin header : PBT | Black                       | UL94V-0 |
|                         |               | DF62W              |   |                             |         |
|                         | Contact       | Copper alloy       |   | Gold plating or tin plating | -       |
|                         | Metal fitting | Brass              |   | Tin plating                 | -       |
|                         | Seal *        | Silicone rubber    |   | Bengala                     | -       |

\*Waterproof type (DF62W) only



◆IP67 Water-resistant type

●Connector

**DF 62W - \* S - 2.2 C**

① ② ③ ④ ⑤ ⑥

|   |   |
|---|---|
| ① Series Name : DF                                  | ⑤ Contact pitch : 2.2mm                         |
| ② Series No. : 62W                                  |   |
| ③ No. of Contacts : 2, 3, 4, 6, 9                   | ⑥ Connection part shape<br>C : Crimping housing |
| ④ Connector type<br>S : Socket, EP : Extension plug |   |

●Contact

**DF 62W - EP 2226 PCF A**

① ② ③ ④ ⑤ ⑥

|  |  |
|--|--|
| ① Series Name : DF   | ⑤ Contact type /packaging type<br>SCF : Socket crimping contact, reel<br>SC : Socket crimping contact, pieces<br>PCF : Plug crimping contact, reel<br>PC : Plug crimping contact, pieces |
| ② Series No. : 62W   |  |
| ③ Terminal type<br>EP : Extension plug                               | ⑥ Plating type<br>A : Gold plating<br>None : Tin plating   |
| ④ Applicable wire size<br>2022 : 20 to 22 AWG<br>2226 : 22 to 26 AWG |  |

●Water-proof pin

**DF 62W - WP**

① ② ③

|                    |  |
|--------------------|--|
| ① Series Name : DF | ③ For each use type<br>WP : ◆IP67 Water-resistant type |
| ② Series No. : 62W |  |

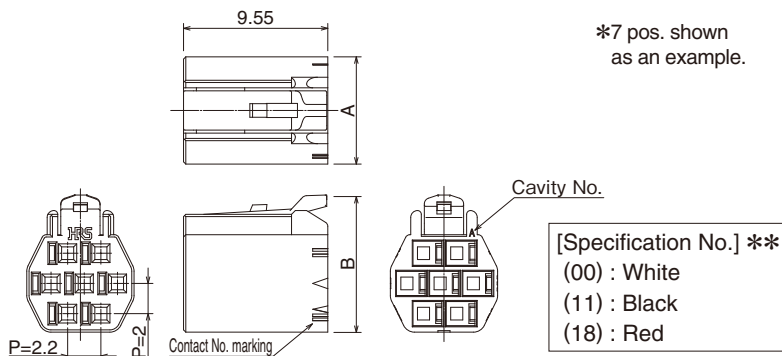
●Connector

**DF 62W - \* P - 2.2 DSA (00)**

① ② ③ ④ ⑤ ⑥ ⑦

|                                |  |
|--------------------------------|--|
| ① Series Name : DF             | ⑤ Contact pitch : 2.2mm                              |
| ② Series No. : 62W             | ⑥ Connection part shape<br>DSA : Straight pin header |
| ③ No. of Contacts : 9          |  |
| ④ Connector type<br>P : Header | ⑦ Plating type<br>(01) : Gold plating                |

### ■Socket (standard type)

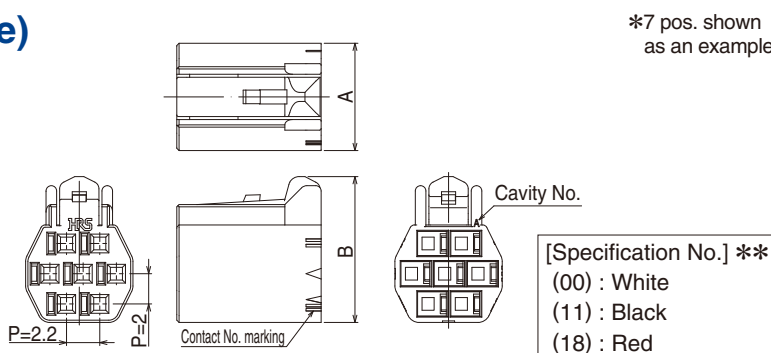


Unit : mm

| Part No.          | HRS No.       | No. of Contacts | A   | B    | Part No.           | HRS No.       | No. of Contacts | A    | B     |
|-------------------|---------------|-----------------|-----|------|--------------------|---------------|-----------------|------|-------|
| DF62B-2S-2.2C(**) | 544-0551-0 ** | 2               | 4.9 | 5.08 | DF62B-6S-2.2C(**)  | 544-0555-0 ** | 6               | 7.1  | 7.08  |
| DF62B-3S-2.2C(**) | 544-0552-2 ** | 3               |     | 7.08 | DF62B-7S-2.2C(**)  | 544-0556-3 ** | 7               |      | 9.08  |
| DF62B-4S-2.2C(**) | 544-0553-5 ** | 4               | 7.1 | 7.08 | DF62B-13S-2.2C(**) | 544-0557-6 ** | 13              | 9.3  | 11.08 |
| DF62B-5S-2.2C(**) | 544-0554-8 ** | 5               |     |      | 12.3               | 13.08         |                 |      |       |
|                   |               |                 |     |      | DF62B-24S-2.2C(**) | 544-0539-4 ** | 24              | 12.3 | 13.08 |

Note 1 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

### ■Socket (Protected lock type)

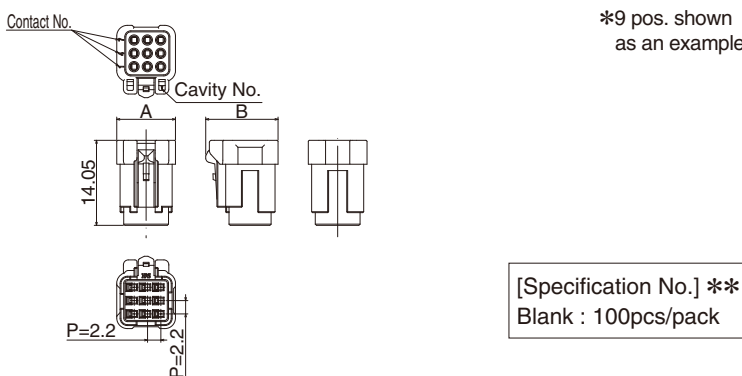


Unit : mm

| Part No.          | HRS No.       | No. of Contacts | A   | B    | Part No.           | HRS No.       | No. of Contacts | A    | B     |
|-------------------|---------------|-----------------|-----|------|--------------------|---------------|-----------------|------|-------|
| DF62C-2S-2.2C(**) | 544-0565-4 ** | 2               | 4.9 | 5.65 | DF62C-6S-2.2C(**)  | 544-0569-5 ** | 6               | 7.1  | 7.65  |
| DF62C-3S-2.2C(**) | 544-0566-7 ** | 3               |     | 7.65 | DF62C-7S-2.2C(**)  | 544-0570-4 ** | 7               |      | 9.65  |
| DF62C-4S-2.2C(**) | 544-0567-0 ** | 4               | 7.1 | 7.65 | DF62C-13S-2.2C(**) | 544-0571-7 ** | 13              | 9.3  | 11.65 |
| DF62C-5S-2.2C(**) | 544-0568-2 ** | 5               |     |      | 12.3               | 13.65         |                 |      |       |
|                   |               |                 |     |      | DF62C-24S-2.2C(**) | 544-0541-6 ** | 24              | 12.3 | 13.65 |

Note 1 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

### ■Socket (Water proof type)



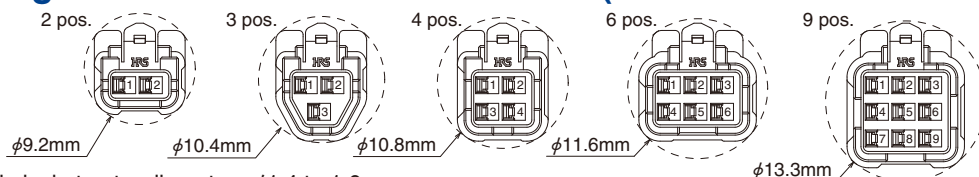
Unit : mm

| Part No.      | HRS No.       | No. of Contacts | A   | B    | Part No.      | HRS No.       | No. of Contacts | A   | B     |
|---------------|---------------|-----------------|-----|------|---------------|---------------|-----------------|-----|-------|
| DF62W-2S-2.2C | 544-1002-7 00 | 2               | 7.5 | 7.55 | DF62W-6S-2.2C | 544-1008-3 00 | 6               | 9.7 | 9.75  |
| DF62W-3S-2.2C | 544-1004-2 00 | 3               |     | 9.75 | DF62W-9S-2.2C | 544-1010-5 00 | 9               |     | 11.95 |
| DF62W-4S-2.2C | 544-1006-8 00 | 4               |     |      |               |               |                 |     |       |

Note 1 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

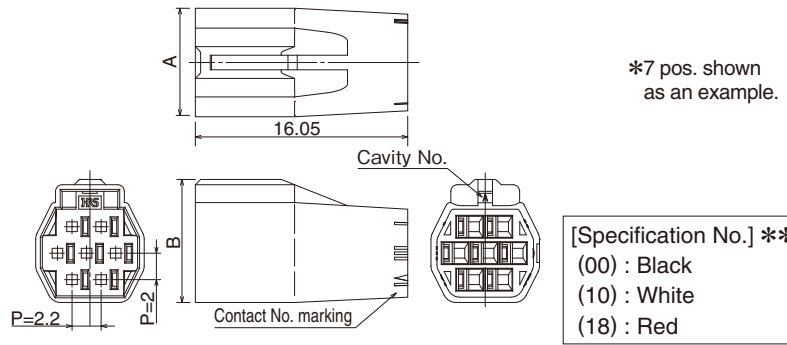
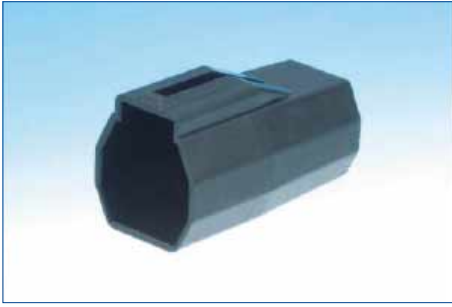
Note 2 : The Water-proof type and a non-water-proof type are not intermateable.

### ◆Pin configuration of the contact numbers. (Shown from the mating side.)



Note : Applicable jacket outer diameter : φ1.4 to 1.6mm

### ■ Plug (standard type)



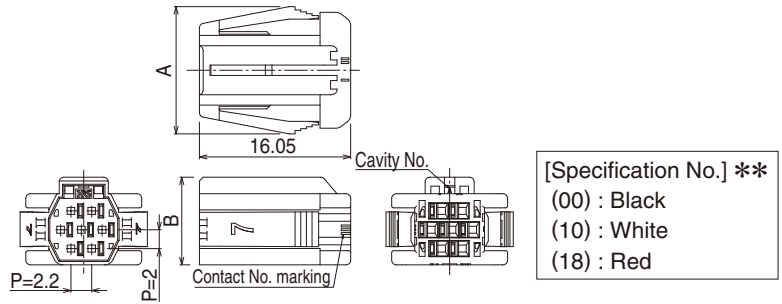
Unit : mm

| Part No.           | HRS No.       | No. of Contacts | A   | B    |
|--------------------|---------------|-----------------|-----|------|
| DF62B-2EP-2.2C(**) | 544-0558-9 ** | 2               | 6.0 | 5.3  |
| DF62B-3EP-2.2C(**) | 544-0559-1 ** | 3               |     | 7.3  |
| DF62B-4EP-2.2C(**) | 544-0560-0 ** | 4               | 8.2 | 7.3  |
| DF62B-5EP-2.2C(**) | 544-0561-3 ** | 5               |     | 11.3 |

| Part No.            | HRS No.       | No. of Contacts | A    | B    |
|---------------------|---------------|-----------------|------|------|
| DF62B-6EP-2.2C(**)  | 544-0562-6 ** | 6               | 8.2  | 7.3  |
| DF62B-7EP-2.2C(**)  | 544-0563-9 ** | 7               |      | 9.3  |
| DF62B-13EP-2.2C(**) | 544-0564-1 ** | 13              | 10.4 | 11.3 |
| DF62B-24EP-2.2C(**) | 544-0540-3 ** | 24              | 13.4 | 13.3 |

Note 1 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

### ■ Plug (Panel mount type)



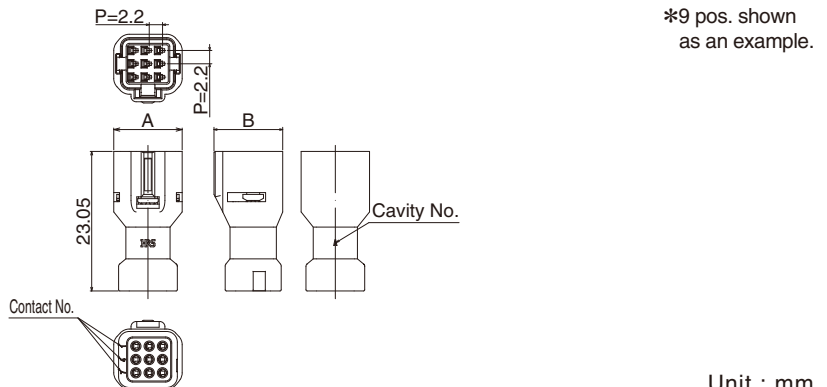
Unit : mm

| Part No.           | HRS No.       | No. of Contacts | A    | B    |
|--------------------|---------------|-----------------|------|------|
| DF62P-2EP-2.2C(**) | 544-0543-1 ** | 2               | 11.3 | 5.3  |
| DF62P-3EP-2.2C(**) | 544-0544-4 ** | 3               |      | 7.3  |
| DF62P-4EP-2.2C(**) | 544-0545-7 ** | 4               | 13.5 | 7.3  |
| DF62P-5EP-2.2C(**) | 544-0546-0 ** | 5               |      | 11.3 |

| Part No.            | HRS No.       | No. of Contacts | A    | B    |
|---------------------|---------------|-----------------|------|------|
| DF62P-6EP-2.2C(**)  | 544-0547-2 ** | 6               | 13.5 | 7.3  |
| DF62P-7EP-2.2C(**)  | 544-0548-5 ** | 7               |      | 9.3  |
| DF62P-13EP-2.2C(**) | 544-0549-8 ** | 13              | 15.7 | 11.3 |
| DF62P-24EP-2.2C(**) | 544-0550-7 ** | 24              | 18.7 | 13.3 |

Note 1 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

### ■ Plug (Water proof type)



Unit : mm

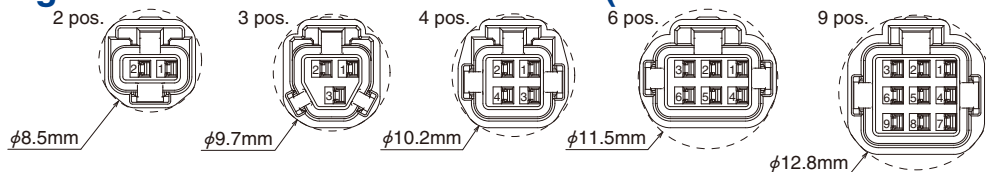
| Part No.       | HRS No.       | No. of Contacts | A   | B    |
|----------------|---------------|-----------------|-----|------|
| DF62W-2EP-2.2C | 544-1003-0 00 | 2               | 7.5 | 6.7  |
| DF62W-3EP-2.2C | 544-1005-5 00 | 3               | 8.0 | 9.15 |
| DF62W-4EP-2.2C | 544-1007-0 00 | 4               | 9.1 |      |

| Part No.       | HRS No.       | No. of Contacts | A    | B     |
|----------------|---------------|-----------------|------|-------|
| DF62W-6EP-2.2C | 544-1009-6 00 | 6               | 11.3 | 9.15  |
| DF62W-9EP-2.2C | 544-1011-8 00 | 9               |      | 11.35 |

Note 1 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

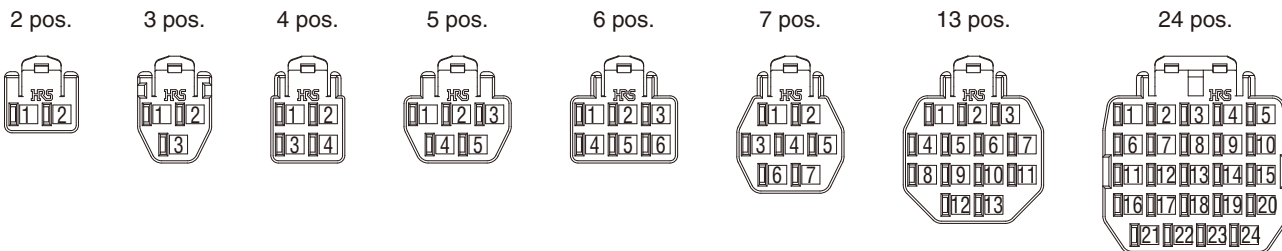
Note 2 : The Water-proof type and a non-water-proof type are not intermateable.

### ◆ Pin configuration of the contact numbers. (Shown from the mating side.)

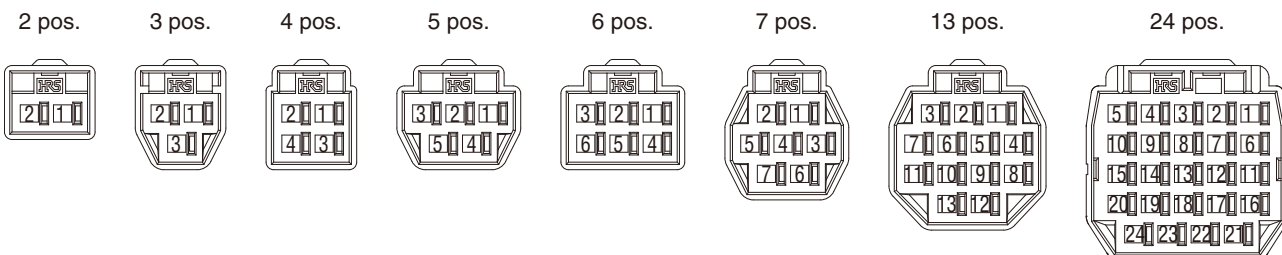


Note : Applicable jacket outer diameter : φ1.4 to 1.6mm

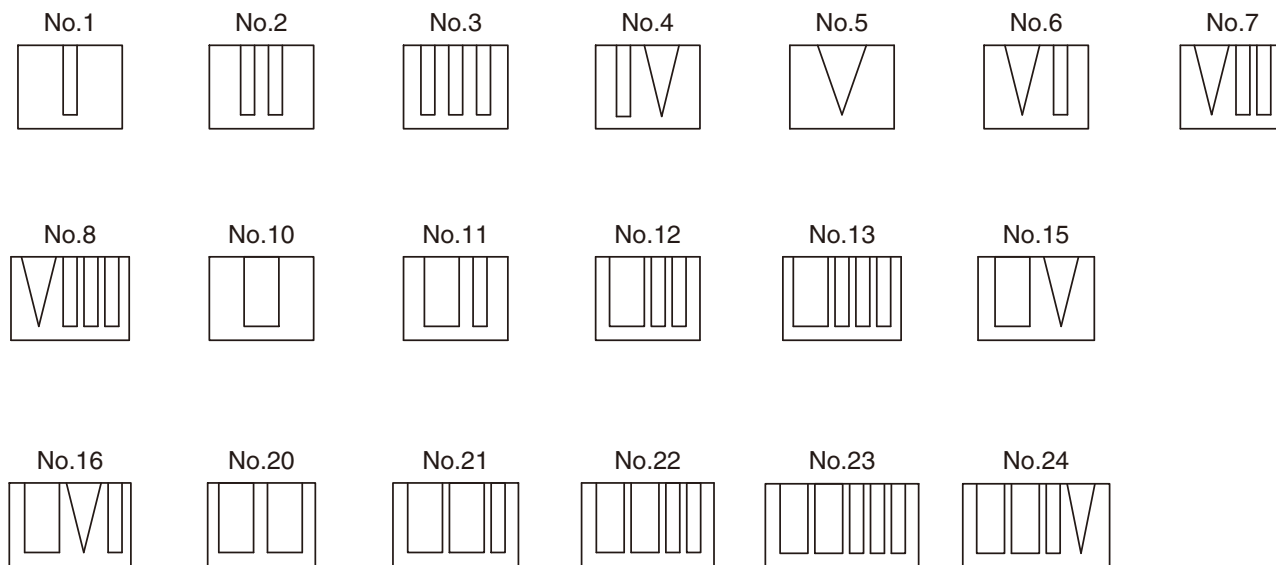
◆ Socket contact No. Summary diagram (from the mating section side)



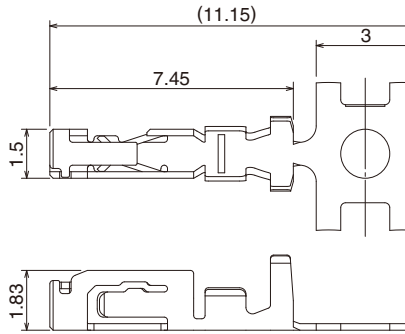
◆ Plug contact No. Summary diagram (from the mating section side)



◆ Contact No. diagram



### Socket crimping contact



Unit : mm

| Part No.      | HRS No.       | Packaging type        | Quantity        | Finish                 |             |
|---------------|---------------|-----------------------|-----------------|------------------------|-------------|
| DF62-22SCFA   | 544-0506-5 00 | Reel contact (Note 1) | 15,000 pcs/reel | Selective gold plating |             |
| DF62-2428SCFA | 544-0500-9 00 |                       |                 |                        |             |
| DF62-30SCFA   | 544-0508-0 00 | Loose piece (Note 2)  | 100 pcs/pack    |                        |             |
| DF62-22SCA    | 544-0526-2 00 |                       |                 |                        |             |
| DF62-2428SCA  | 544-0527-5 00 | Reel contact (Note 1) | 15,000 pcs/reel |                        | Tin plating |
| DF62-30SCA    | 544-0528-8 00 |                       |                 |                        |             |
| DF62-22SCF    | 544-0520-6 00 | Loose piece (Note 2)  | 100 pcs/pack    |                        |             |
| DF62-2428SCF  | 544-0521-9 00 |                       |                 |                        |             |
| DF62-30SCF    | 544-0522-1 00 | Reel contact (Note 1) | 15,000 pcs/reel |                        |             |
| DF62-22SC     | 544-0572-0 00 |                       |                 |                        |             |
| DF62-2428SC   | 544-0573-2 00 | Loose piece (Note 2)  | 100 pcs/pack    |                        |             |
| DF62-30SC     | 544-0574-5 00 |                       |                 |                        |             |

Note 1 : This product is sold in full reel quantities (15,000pcs/reel), please place orders in full reel increments.

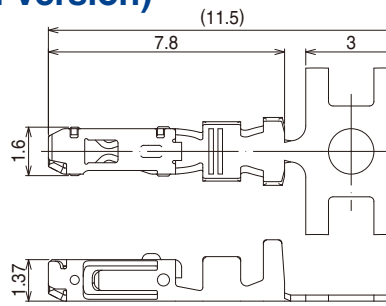
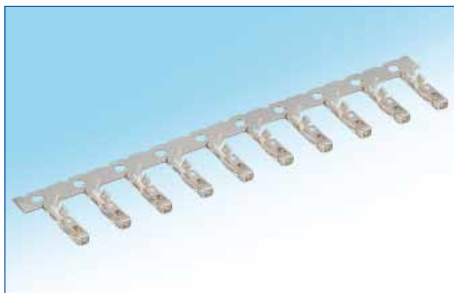
Note 2 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

#### ●Applicable wire (Tinned Annealed Copper Wire)

| Conductor size (Core structure) | Insulation diameter | UL     | Strip length |
|---------------------------------|---------------------|--------|--------------|
| 22 AWG (17/φ0.16mm)             | φ1.2 to φ1.45mm     | UL1061 | 1.7 to 2.3mm |
| 24 AWG (11/φ0.16mm)             |                     | UL1007 |              |
| 26 AWG (7/φ0.16mm)              | UL1061              |        |              |
| 28 AWG (7/φ0.127mm)             |                     |        |              |
| 30 AWG (7/φ0.1mm)               | φ0.75 to φ1.2mm     |        |              |

Note : When using wires that are not recommended by Hirose, please contact one of our sales representatives for clarification.

### Socket crimp contact (for water-proof version)



Unit : mm

| Part No.       | HRS No.        | Packaging type        | Quantity        | Finish       |
|----------------|----------------|-----------------------|-----------------|--------------|
| DF62W-2022SCF  | 544-1015-9 00  | Reel contact (Note 1) | 15,000 pcs/reel | Tin plating  |
| DF62W-2022SC   | Under planning | Loose piece (Note 2)  | 100 pcs/pack    |              |
| DF62W-2022SCFA | 544-1027-0 00  | Reel contact (Note 1) | 15,000 pcs/reel | Gold plating |
| DF62W-2022SCA  | Under planning | Loose piece (Note 2)  | 100 pcs/pack    |              |
| DF62W-2226SCF  | 544-1000-1 00  | Reel contact (Note 1) | 15,000 pcs/reel | Tin plating  |
| DF62W-2226SC   | 544-1012-0 00  | Loose piece (Note 2)  | 100 pcs/pack    |              |
| DF62W-2226SCFA | 544-1025-0 00  | Reel contact (Note 1) | 15,000 pcs/reel | Gold plating |
| DF62W-2226SCA  | Under planning | Loose piece (Note 2)  | 100 pcs/pack    |              |

Note 1 : This product is sold in full reel quantities (15,000pcs/reel), please place orders in full reel increments.

Note 2 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

#### ●Applicable wire (Tinned Annealed Copper Wire)

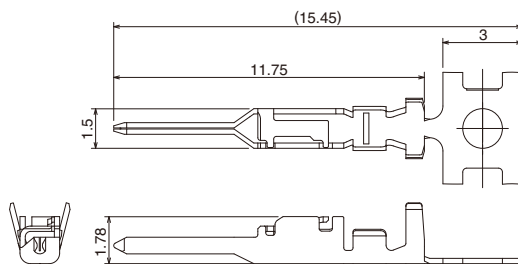
| Conductor size (Core structure) | Insulation diameter | UL     | Strip length |
|---------------------------------|---------------------|--------|--------------|
| 20 AWG (7/φ0.32mm)              | φ1.4 to φ1.6mm      | UL3443 | 1.7 to 2.3mm |
| 22 AWG (17/φ0.16mm)             |                     | UL1007 |              |
| 24 AWG (11/φ0.16mm)             |                     | UL1007 |              |
|                                 |                     | UL1430 |              |
| 26 AWG (7/φ0.16mm)              |                     | UL1430 |              |

Note 1 : When using wires that are not recommended by Hirose, please contact one of our sales representatives for clarification.

Note 2 : The Water-proof type and non-water-proof type are a not intermateable.



### ■ Plug crimping contact



Unit : mm

| Part No.        | HRS No.       | Packaging type          | Quantity        | Finish                 |
|-----------------|---------------|-------------------------|-----------------|------------------------|
| DF62-EP22PCFA   | 544-0507-8 00 | Reel contact (Note 1)   | 15,000 pcs/reel | Selective gold plating |
| DF62-EP2428PCFA | 544-0501-1 00 |                         |                 |                        |
| DF62-EP30PCFA   | 544-0509-3 00 |                         |                 |                        |
| DF62-EP22PCA    | 544-0529-0 00 | Single contact (Note 2) | 100 pcs/pack    |                        |
| DF62-EP2428PCA  | 544-0530-0 00 |                         |                 |                        |
| DF62-EP30PCA    | 544-0531-2 00 |                         |                 |                        |
| DF62-EP22PCF    | 544-0523-4 00 | Reel contact (Note 1)   | 15,000 pcs/reel | Tin plating            |
| DF62-EP2428PCF  | 544-0524-7 00 |                         |                 |                        |
| DF62-EP30PCF    | 544-0525-0 00 |                         |                 |                        |
| DF62-EP22PC     | 544-0575-8 00 | Single contact (Note 2) | 100 pcs/pack    |                        |
| DF62-EP2428PC   | 544-0576-0 00 |                         |                 |                        |
| DF62-EP30PC     | 544-0577-3 00 |                         |                 |                        |

Note 1 : This product is sold in full reel quantities (15,000pcs/reel), please place orders in full reel increments.

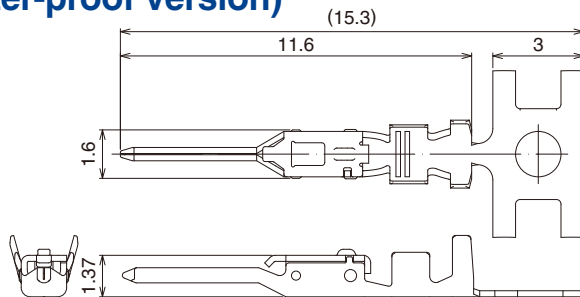
Note 2 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

#### ● Applicable wire (Tinned Annealed Copper Wire)

| Conductor size (Core structure) | Insulation diameter | UL     | Strip length |
|---------------------------------|---------------------|--------|--------------|
| 22 AWG (17/φ 0.16mm)            | φ1.2 to φ1.45mm     | UL1061 | 1.7 to 2.3mm |
| 24 AWG (11/φ 0.16mm)            |                     | UL1007 |              |
| 26 AWG (7/φ 0.16mm)             |                     |        |              |
| 28 AWG (7/φ 0.127mm)            |                     |        |              |
| 30 AWG (7/φ 0.1mm)              | φ0.75 to φ1.2mm     | UL1061 |              |

Note : When using wires that are not recommended by Hirose, please contact one of our sales representatives for clarification.

### ■ Plug crimping contact (for water-proof version)



Unit : mm

| Part No.         | HRS No.        | Packaging type          | Quantity        | Finish       |
|------------------|----------------|-------------------------|-----------------|--------------|
| DF62W-EP2022PCF  | 544-1016-1 00  | Reel contact (Note 1)   | 15,000 pcs/reel | Tin plating  |
| DF62W-EP2022PC   | Under planning | Single contact (Note 2) | 100 pcs/pack    |              |
| DF62W-EP2022PCFA | 544-1028-0 00  | Reel contact (Note 1)   | 15,000 pcs/reel | Gold plating |
| DF62W-EP2022PCA  | Under planning | Single contact (Note 2) | 100 pcs/pack    |              |
| DF62W-EP2226PCF  | 544-1001-4 00  | Reel contact (Note 1)   | 15,000 pcs/reel | Tin plating  |
| DF62W-EP2226PC   | 544-1013-2 00  | Single contact (Note 2) | 100 pcs/pack    |              |
| DF62W-EP2226PCFA | 544-1026-0 00  | Reel contact (Note 1)   | 15,000 pcs/reel | Gold plating |
| DF62W-EP2226PCA  | Under planning | Single contact (Note 2) | 100 pcs/pack    |              |

Note 1 : This product is sold in full reel quantities (15,000pcs/reel), please place orders in full reel increments.

Note 2 : This product is sold per pack (100pcs/pack), please place orders in full pack increments.

#### ● Applicable wire (Tinned Annealed Copper Wire)

| Conductor size (Core structure) | Insulation diameter | UL               | Strip length |
|---------------------------------|---------------------|------------------|--------------|
| 20 AWG (7/φ0.32mm)              | φ1.4 to φ1.6mm      | UL3443           | 1.7 to 2.3mm |
| 22 AWG (17/φ0.16mm)             |                     | UL1007           |              |
| 24 AWG (11/φ0.16mm)             |                     | UL1007<br>UL1430 |              |
| 26 AWG (7/φ0.16mm)              |                     | UL1430           |              |

Note 1 : When using wires that are not recommended by Hirose, please contact one of our sales representatives for clarification.

Note 2 : The Water-proof type and non-water-proof type are a not intermateable.

## ◆ Applicable Crimping Tool

### ● DF62

| Type            | Part No.                     | HRS No.       | Applicable Contact                                 |
|-----------------|------------------------------|---------------|--|
| Applicator      | AP105-DF62-22                | 901-4626-3 00 | DF62-22SCFA/SCF<br>DF62-EP22PCFA/PCF               |
|                 | AP105-DF62-2428              | 901-4625-0 00 | DF62-2428SCFA/SCF<br>DF62-EP2428PCFA/PCF           |
|                 | AP105-DF62-30                | 901-4627-6    | DF62-30SCFA/SCF<br>DF62-EP30PCFA/PCF               |
| Press body      | CM-105C                      | 901-0001-0 00 | -  |
| Hand tool       | HT801/DF62-22(10) (Note 2)   | 550-0401-9 10 | DF62-22SCA/SC<br>DF62-EP22PCA/PC                   |
|                 | HT801/DF62-2428(10) (Note 3) | 550-0400-6 10 | DF62-2428SCA/SC<br>DF62-EP2428PCA/PC               |
|                 | HT801/DF62-30(10) (Note 4)   | 550-0402-1 10 | DF62-30SCA/SC<br>DF62-EP30PCA/PC                   |
| Extraction tool | DF62/RE-MD                   | 902-4645-4 00 | DF62-**SCFA/SCF/SCA/SC<br>DF62-EP**PCFA/PCF/PCA/PC |

Note 1 : Hirose does not warranty problems that arise from the use of unapproved tools on Hirose products.

Note 2 : The compatible wire is limited to UL1061 (22 AWG).

Note 3 : The compatible wire is limited to UL1007 (24 to 28 AWG).

Note 4 : The compatible wire is limited to UL1061 (30 AWG).

### ● DF62W

| Type            | Part No.                  | HRS No.       | Applicable Contact   |
|-----------------|---------------------------|---------------|--|
| Applicator      | AP105-DF62W-2022          | 901-4500-0 00 | DF62W-2022SCF(A)   |
|                 | EHS899800H-UP (Note 2)    | -             | DF62W-EP2022PCF(A)   |
|                 | AP105-DF62W-2226          | 901-4637-0 00 | DF62W-2226SCF(A)   |
|                 | EHS888400H-UP (Note 2)    | -             | DF62W-EP2226PCF(A)   |
| Press body      | CM-105C                   | 901-0001-0 00 | -  |
| Hand tool       | HT802/DF62W-2022 (Note 3) | 550-0431-0 00 | DF62W-2022SC(A)<br>DF62W-EP2022PC(A)   |
|                 | HT802/DF62W-2226 (Note 4) | 550-0416-6 00 | DF62W-2226SC(A)<br>DF62W-EP2226PC(A)   |
| Extraction tool | DF62W/RE-MD               | 902-4666-4 00 | DF62W-2022SC(F)(A)<br>DF62W-EP2022PC(F)(A)<br>DF62W-2226SC(F)(A)<br>DF62W-EP2226PC(F)(A) |

Note 1 : Hirose does not warranty problems that arise from the use of unapproved tools on Hirose products.

Note 2 : 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>)

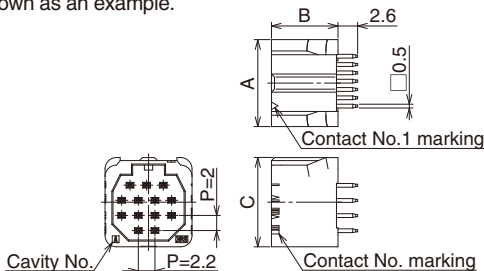
Note 3 : The compatible wire is limited to UL3443 (20 AWG) or UL1007 (22 AWG).

Note 4 : The compatible wire is limited to UL1007 (22 to 24 AWG) or UL1430 (24 to 26 AWG).

## ■ Straight pin Header



\*13 pos. shown as an example.



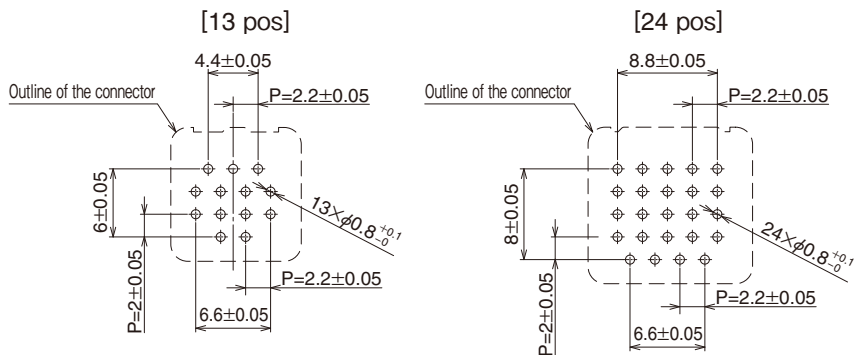
Unit : mm

| Part No.            | HRS No.       | No. of Contacts | A    | B    | C    |
|---------------------|---------------|-----------------|------|------|------|
| DF62-13P-2.2DSA(**) | 544-0582-0 ** | 13              | 11.5 | 8.8  | 11.8 |
| DF62-24P-2.2DSA(**) | 544-0584-0 ** | 24              | 14.5 | 10.8 | 13.8 |

[Specification No.] \*\*  
(00) : Tin plating

Note 1 : This product is sold per tray (13pos : 100pcs/tray, 24pos : 80pcs/tray), please place orders by tray unit.

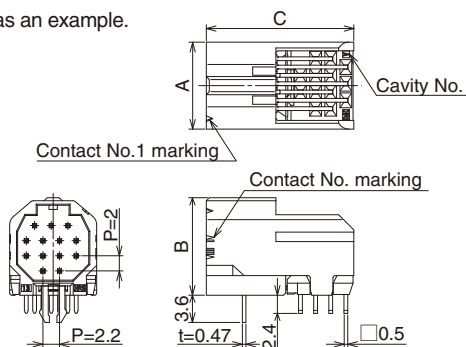
### ● Recommended PCB layout (Recommended thickness t=1.6mm)



## ■ Right Angle pin Header



\*13 pos. shown as an example.



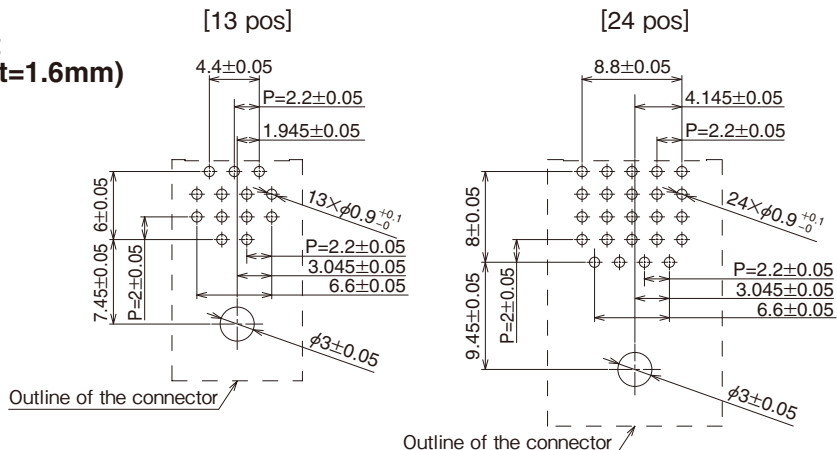
Unit : mm

| Part No.           | HRS No.       | No. of Contacts | A    | B    | C    |
|--------------------|---------------|-----------------|------|------|------|
| DF62-13P-2.2DS(**) | 544-0581-0 ** | 13              | 11.5 | 12.9 | 19.5 |
| DF62-24P-2.2DS(**) | 544-0583-0 ** | 24              | 15.4 | 14.9 | 23.5 |

[Specification No.] \*\*  
(00) : Tin plating

Note 1 : This product is sold per tray (100pcs/tray), please place orders by tray unit.

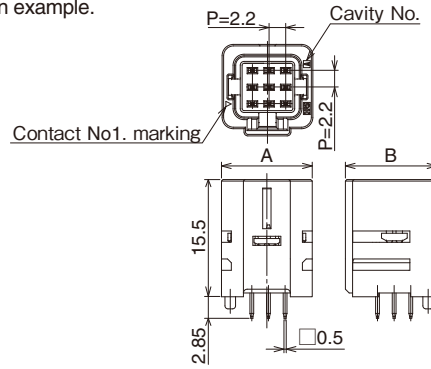
### ● Recommended PCB layout (Recommended thickness t=1.6mm)



## ■ Straight pin Header (Water proof type)



\*9 pos. shown as an example.



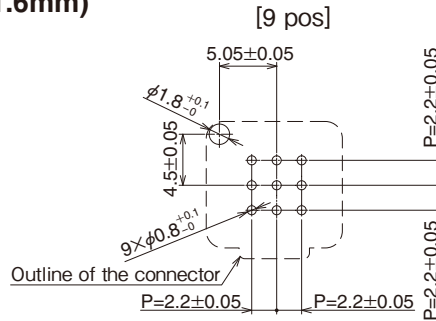
Unit : mm

| Part No.            | HRS No.       | No. of Contacts | A  | B    |
|---------------------|---------------|-----------------|----|------|
| DF62W-9P-2.2DSA(**) | 544-1024-0 ** | 9               | 12 | 12.1 |

[Specification No.] \*\*  
(01) : Gold plating

Note 1 : This product is sold per tray (200pcs/tray), please place orders by tray unit.

### ● Recommended PCB layout (Recommended thickness t=1.6mm)



### ◆ Operating Precautions

- Do not tilt the crimping contact while it is being inserted into the plug, this can lead to damage of the contacts and will downgrade its performance.  
For precautions when handling the harness, please refer to the “DF62 Series Cable Assembly Procedures” or “DF62W Series Cable Assembly Procedures”.
- The color of the resin on these connectors may vary depending on the manufacturing lot. This variance will not affect the connector’s performance.
- For precautions relating to insertion and extraction of this connector, please refer to the “DF62 Series Inserting/Extracting Procedures” or “DF62W Series Inserting/Extracting Procedures”.



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