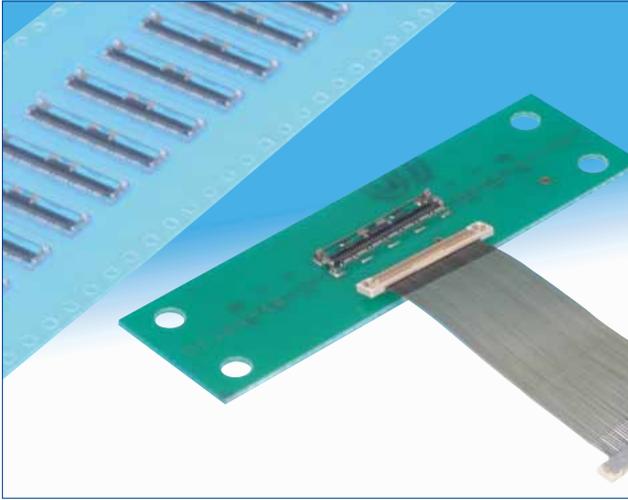
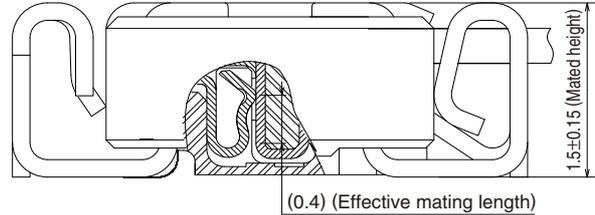


# 0.4mm Pitch, 1.5mm Mated Height, Board-to-Fine Coaxial Cable Connectors

## DF36 Series



High contact reliability –  
Effective mating length of 0.4mm



### ■ Features

#### 1. Small mated height and board occupied space

Small pitch (0.4mm) and mated height (1.5mm) allows use in space-restricted areas.

Standard type : mated height 1.5mm, depth 4.4mm

Saving space type: mated height 1.5mm, depth 2.8mm  
Plug : Height 1.33mm, depth 2.8mm

#### 2. Enhanced shielding and ground connections

Metal covers on the plug and receptacle connect to each other with a reliable multi-point ground contacts, assuring reliable ground connection and EMC protection.

#### 3. Reliable lock

Fully mated condition is assured with reliable locks at 4 locations, confirming it with a distinct tactile click.

#### 4. Reliable electrical and mechanical connection

Despite its small mated height, unique contact configuration assures highly reliable connection, with effective mating length of 0.4mm.

#### 5. Solder wicking prevention

Nickel barriers prevent solder wicking in the critical contact areas.

#### 6. Durable plug construction

Formed metal shells on the top and side surfaces form a strong and rigid assembly.

#### 7. RoHS, Halogen-free\*

\*As defined by IEC61249-2-21

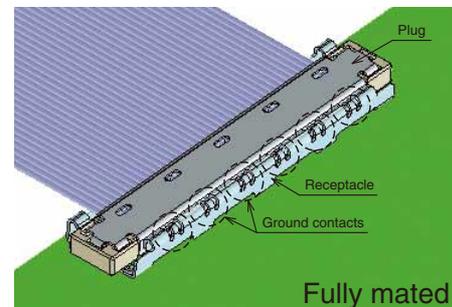
Br-900 ppm maximum, Cl-900 ppm maximum,

Cl+Br combined-1,500 ppm maximum

### ■ Receptacle for conductivity tests

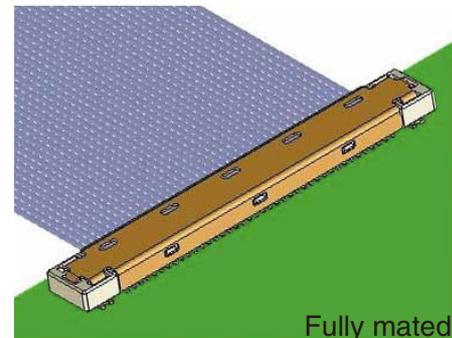
We have a line-up of connectors for inspection, usable for electrical testing of both standard type and space saving type.

#### Enhanced shielding (standard type)

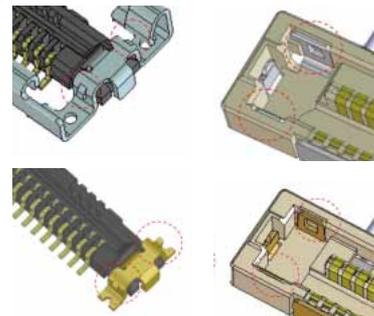


Multi-point contacts

#### Enhanced shielding (Space Saving type)



#### 4-point lock: 2 points at each end



Distinct tactile click

## Product Specifications

|         |                |  |   |   |
|---------|----------------|--|---|---|
| Ratings | Current rating | 0.25A (42 AWG)<br>0.25A (44 AWG) (Note 3)<br>0.1A (46 AWG) | Operating temperature range<br>Operating humidity range | -35 to +85°C (Note 1)<br>20 to 80%          |
|         | Voltage rating | 30V AC   | Storage temperature range<br>Storage humidity range     | -10 to +60°C (Note 2)<br>40 to 70% (Note 2) |

| Item                            | Specification  | Conditions   |
|---------------------------------|--|--|
| 1. Insulation resistance        | 50MΩ min   | 100V DC  |
| 2. Withstanding voltage         | No flashover or insulation breakdown   | 100V AC / 1 minute   |
| 3. Contact resistance           | Signal : 80mΩ max., Ground : 80mΩ max.   | 100mA (DC or 1,000Hz)  |
| 4. Vibration                    | No electrical discontinuity of 1μs or longer<br>No damage, cracks or parts dislocation.  | Frequency : 10 to 55Hz, single amplitude of 0.75 mm, 10 cycles in each of the 3 axial directions                       |
| 5. Humidity                     | Contact resistance (Change from initial value) 50mΩ max.<br>Insulation resistance : 25MΩ min.<br>No damage, cracks or parts dislocation. | 96 hours at 40 ±2°C, and humidity of 90 to 95%   |
| 6. Temperature cycle            | Contact resistance (Change from initial value) 50mΩ max.<br>Insulation resistance : 25MΩ min.<br>No damage, cracks or parts dislocation. | Temperature : -55°C → 5 to 35°C → 85°C → 5 to 35°C<br>Time : 30 min. → 2 to 3 min. → 30 min. → 2 to 3 min.<br>5 cycles |
| 7. Durability                   | Contact resistance (Change from initial value) 50mΩ max.<br>No damage, cracks or parts dislocation.                                      | 30 cycles  |
| 8. Resistance to soldering heat | No deformation of components affecting performance.  | Reflow : At the recommended temperature profile<br>Manual soldering : 350°C for 3 seconds                              |

Note 1 : Includes temperature rise caused by current flow.

Note 2 : The term "storage" refers to products stored for a long period prior to mounting and use.

The operating temperature and humidity range covers the non-conducting condition of connectors after board mounting and the temporary storage conditions of transportation, etc.

Note 3 : With only the connector portion at an elevated temperature level, the rated current value is set.

## Materials / Finish

| Item                  | Part        | Material        | Finish                         | Remarks |
|-----------------------|-------------|-----------------|--------------------------------|---------|
| Receptacle (Standard) | Insulator   | LCP             | Color : Black                  | UL94V-0 |
|                       | Contacts    | Phosphor bronze | Gold plating                   | —       |
|                       | Metal cover | Phosphor bronze | Tin plating                    | —       |
| Plug (Standard)       | Insulator   | LCP             | Color : Natural (Beige), Black | UL94V-0 |
|                       | Contacts    | Phosphor bronze | Gold plating                   | —       |
|                       | Metal shell | Phosphor bronze | Tin plating                    | —       |

| Item                      | Part        | Material        | Finish                         | Remarks |
|---------------------------|-------------|-----------------|--------------------------------|---------|
| Receptacle (Space-saving) | Insulator   | LCP             | Color: Black                   | UL94V-0 |
|                           | Contacts    | Phosphor bronze | Gold plating                   | —       |
|                           | Metal cover | Phosphor bronze | Gold plating                   | —       |
| Plug (Space-saving)       | Insulator   | LCP             | Color : Natural (Beige), Black | UL94V-0 |
|                           | Contacts    | Phosphor bronze | Gold plating                   | —       |
|                           | Metal shell | Phosphor bronze | Gold plating                   | —       |

## 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.

### Connector

**DF** **36** **A** **J** - **\*** **S** - **0.4** **V** (\*\*)  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

**DF** **36** **A** **J** - **\*** **P** - **SHL**  
 ① ② ③ ④ ⑤ ⑥ ⑩

|   |   |  |
|---|---|--|
| ① Series name : DF  | ④ Insulator type<br>J : Receptacles for conductivity tests<br>Blank : Standard or space-saving<br>P : Single-row plug   | ⑥ Connector style<br>S : Single-row receptacle<br>P : Single-row plug  |
| ② Series No. : 36   |   |  |
| ③ Connector style<br>Receptacle/shell<br>A : Standard<br>Blank : Space-saving<br>Plug<br>Blank : Standard | ⑤ Number of contacts<br>Standard : 15 to 50<br>Space-saving : 15 to 25<br>Receptacles for conductivity tests : 15 to 50 | ⑦ Contact pitch: 0.4mm   |
|   |   | ⑧ Termination type<br>V : Straight SMT<br>SD : Fine coaxial cable plug |
|   |   | ⑨ Packaging<br>(51) : Embossed tape packaging                          |
|   |   | ⑩ Installation item (separate)<br>SHL : Metal cover                    |

## Combinations

### Standard use

DF36(A)-\*S-0.4V(\*\*) + DF36(A)-\*P-ASSY  
 ( DF36-\*P-0.4SD(\*\*)  
 DF36(A)-\*P-SHL )

Note: The product specification of the above combination is shown on page 2.

### Receptacle test

DF36(A)-\*S-0.4V(\*\*) + DF36(A)J-\*P-ASSY ·· Note  
 ( DF36-\*P-0.4SD(\*\*)  
 DF36(A)J-\*P-SHL )

Note: This harness item is only usable for the receptacle test.

For the product specification of the above combination, please contact our sales department.

### Plug test

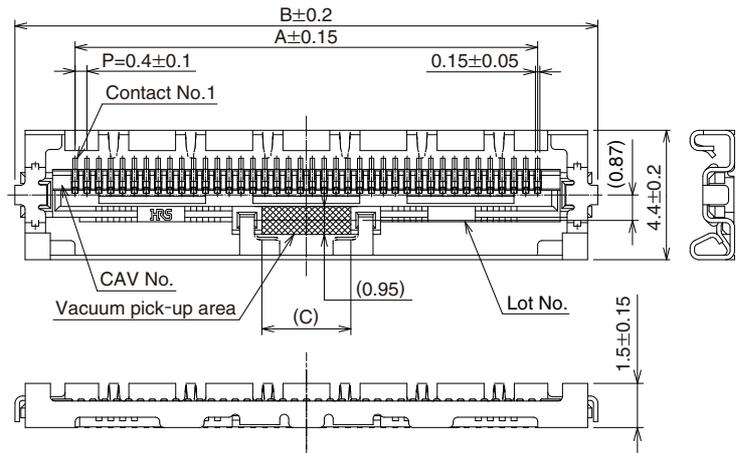
DF36(A)J-\*S-0.4V(\*\*) ·· Note + DF36(A)-\*P-ASSY  
 ( DF36-\*P-0.4SD(\*\*)  
 DF36(A)-\*P-SHL )

Note : This harness item is only usable for the plug test.

For the product specification of the above combination, please contact our sales department.

※ : ASSY means a harness item.

## ■ Receptacles - Standard, with metal cover



All dimensions : mm

| Part No.           | HRS No.      | No. of Contacts | A    | B     | C   |
|--------------------|--------------|-----------------|------|-------|-----|
| DF36A-15S-0.4V(**) | 662-4509-5-* | 15              | 5.6  | 9.66  | 2.6 |
| DF36A-25S-0.4V(**) | 662-4011-4-* | 25              | 9.6  | 13.66 | 2.6 |
| DF36A-30S-0.4V(**) | 662-4017-0-* | 30              | 11.6 | 15.66 | 3.0 |
| DF36A-40S-0.4V(**) | 662-4003-6-* | 40              | 15.6 | 19.66 | 3.0 |
| DF36A-45S-0.4V(**) | 662-4008-0-* | 45              | 17.6 | 21.66 | 3.0 |
| DF36A-50S-0.4V(**) | 662-4043-0-* | 50              | 19.6 | 23.66 | 3.0 |

[Specifications number] - \* \*, (\*\*)  
(51) : Embossed tape packaging  
(4,000 pcs/reel)

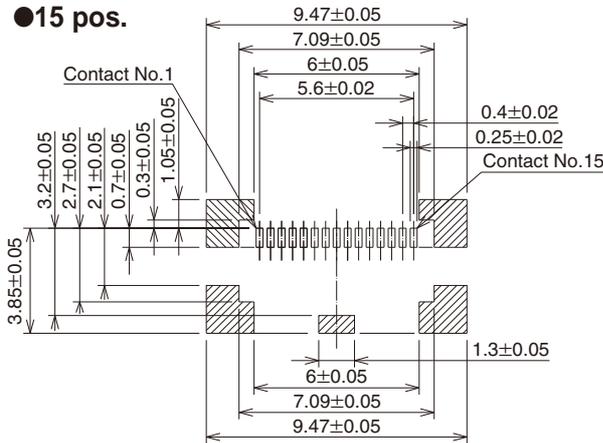
Note 1 : Tape and reel packaging (4,000 pcs/reel).

Order by number of reels.

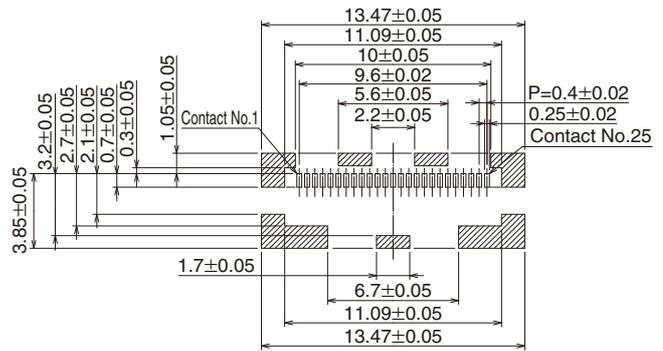
Note 2 : The 15 pos. does not have a lot stamp.

## ◆ Recommended PCB mounting pattern

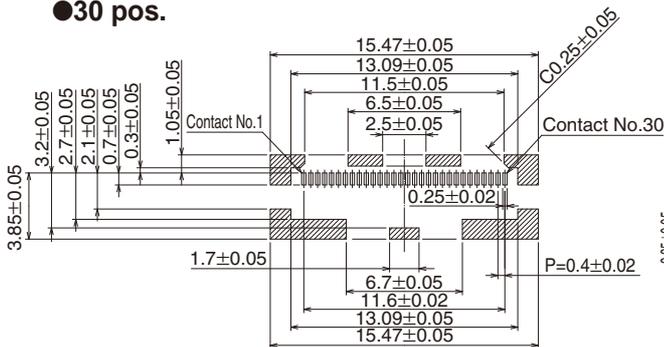
●15 pos.



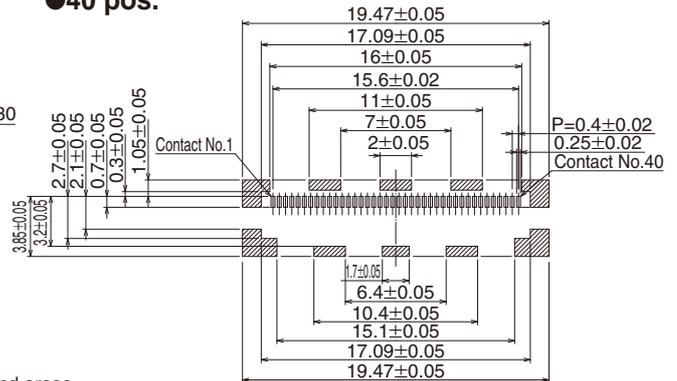
●25 pos.



●30 pos.



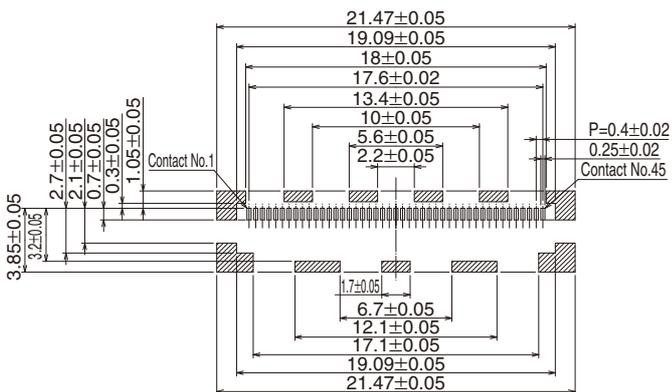
●40 pos.



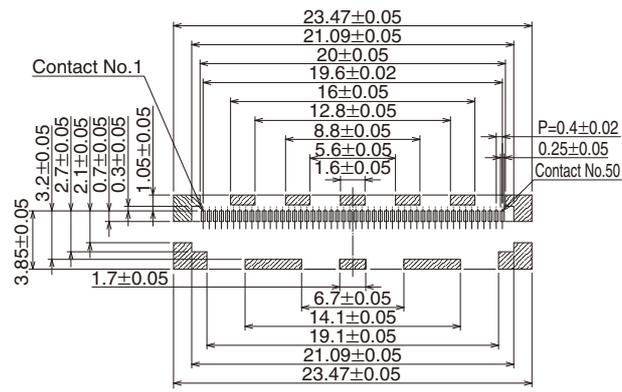
Ground areas

### ◆ Recommended PCB mounting patterns

●45 pos.

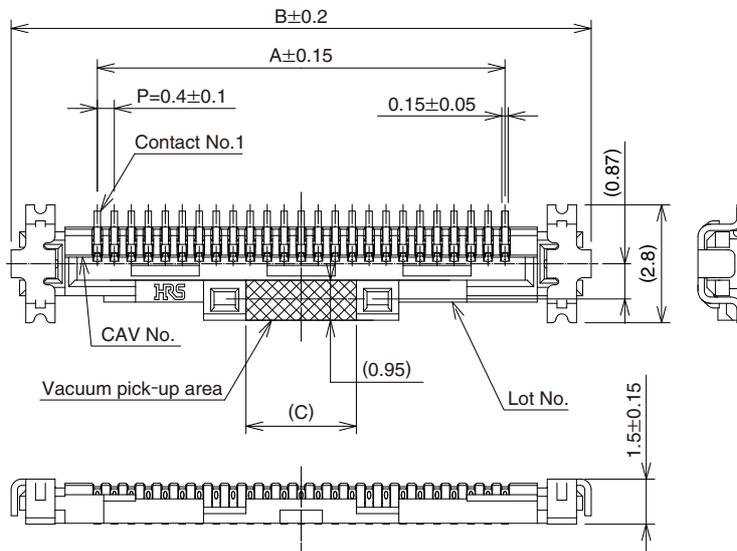
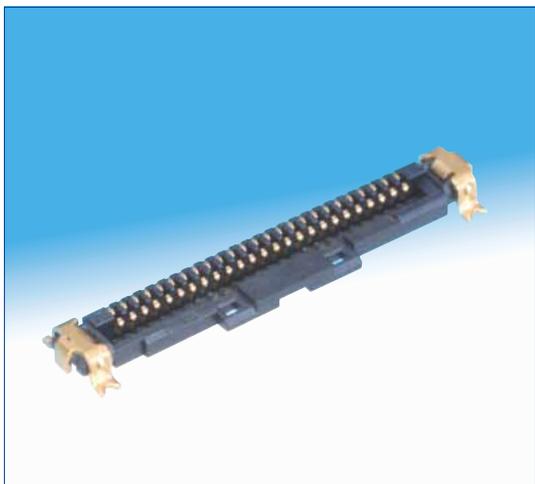


●50 pos.



▨ Ground areas

### ■ Receptacles - Space-saving



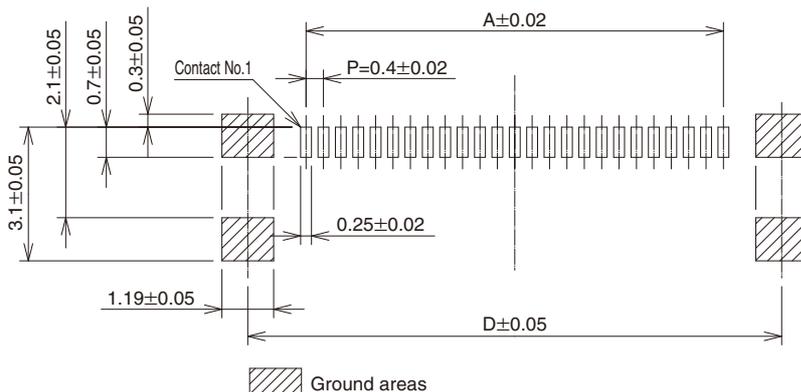
All dimensions : mm

| Part No.          | HRS No.       | No. of Contacts | A   | B     | C   | D     |
|-------------------|---------------|-----------------|-----|-------|-----|-------|
| DF36-15S-0.4V(**) | 662-4031-1-** | 15              | 5.6 | 9.66  | 2.6 | 8.28  |
| DF36-20S-0.4V(**) | 662-4039-3-** | 20              | 7.6 | 11.66 | 2.6 | 10.28 |
| DF36-25S-0.4V(**) | 662-4005-1-** | 25              | 9.6 | 13.66 | 2.6 | 12.28 |

[Specifications number] - \*\* , (\*\*)  
(51) : Embossed tape packaging  
(5,000 pcs/reel)

Note 1 : Tape and reel packaging (5,000 pcs/reel).  
Order by number of reels.

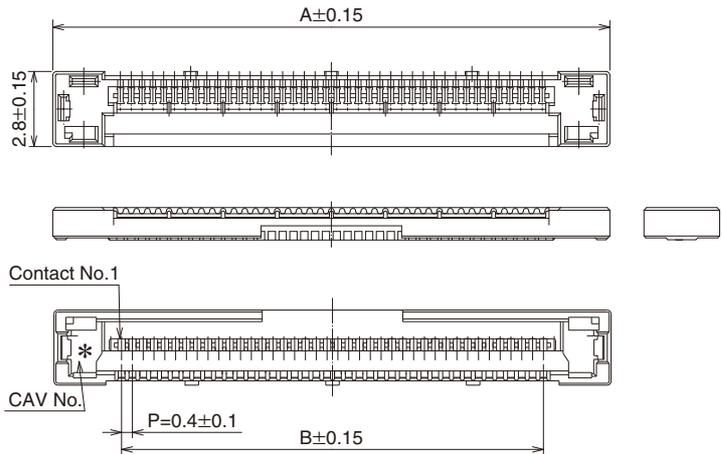
### ◆ Recommended PCB mounting pattern



▨ Ground areas

## Plug

● Separate metal cover required



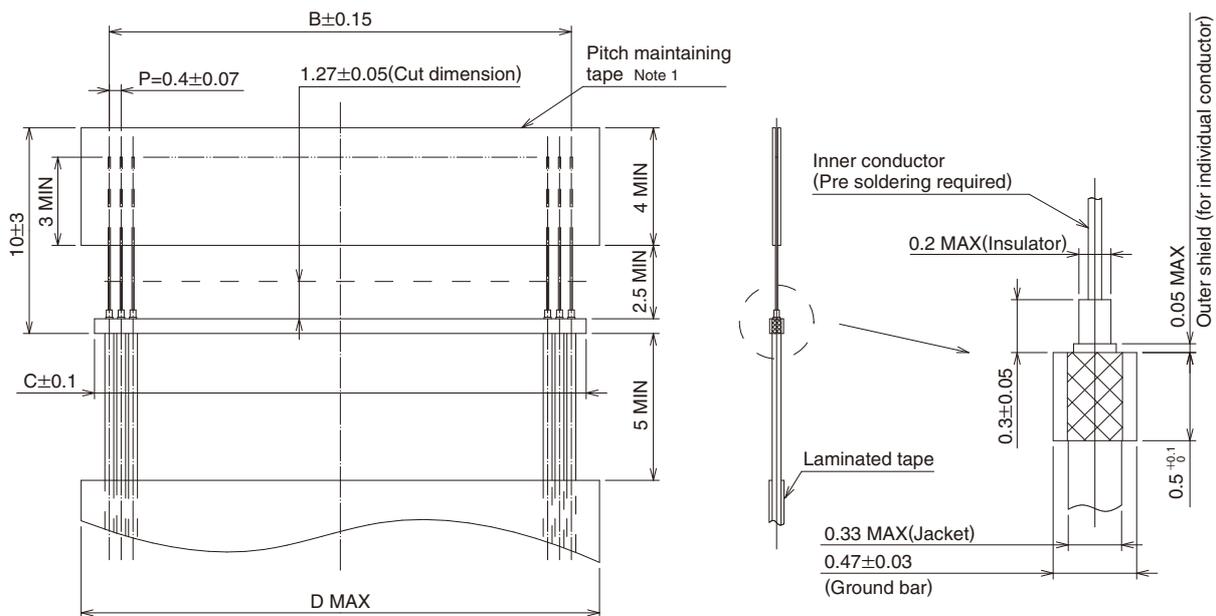
All dimensions : mm

| Part No.            | HRS No.       | No. of Contacts | A    | B    | C    | D    | Packing         |
|---------------------|---------------|-----------------|------|------|------|------|-----------------|
| DF36C-15P-0.4SD(**) | 662-4035-2 ** | 15              | 11.4 | 5.6  | 6.6  | 7.5  | 5,000 pcs./reel |
| DF36-20P-0.4SD(**)  | 662-4040-2 ** | 20              | 12.6 | 7.6  | 8.6  | 9.5  | 5,000 pcs./reel |
| DF36-25P-0.4SD(**)  | 662-4006-4 ** | 25              | 14.6 | 9.6  | 10.6 | 11.5 | 5,000 pcs./reel |
| DF36-30P-0.4SD(**)  | 662-4018-3 ** | 30              | 16.6 | 11.6 | 12.6 | 13.5 | 5,000 pcs./reel |
| DF36-40P-0.4SD(**)  | 662-4002-3 ** | 40              | 20.6 | 15.6 | 16.6 | 17.5 | 5,000 pcs./reel |
| DF36-45P-0.4SD(**)  | 662-4009-2 ** | 45              | 22.6 | 17.6 | 18.6 | 19.5 | 5,000 pcs./reel |
| DF36-50P-0.4SD(**)  | 662-4044-3 ** | 50              | 24.6 | 19.6 | 20.6 | 21.5 | 5,000 pcs./reel |

Note 1 : Tape and reel packaging(5,000 pcs/reel) order by number of reels.

Note 2 : The metal cover is required for fine coaxial cable termination.

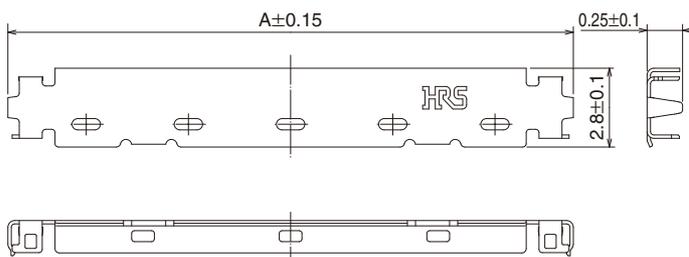
## Recommended Fine Coaxial Cable Preparation



Note 1 : The pitch maintaining tape can be left in place during the termination process. Use high quality tape.

Note 2 : Contact Hirose for Termination Procedures.

## ■Metal cover - Required for assembly and termination of the Plug



### [ Standard ]

All dimensions : mm

| Part No.      | HRS No.    | Plating | No. of Contacts | A     |
|---------------|------------|---------|-----------------|-------|
| DF36A-15P-SHL | 662-4511-7 | Tin     | 15              | 9.92  |
| DF36A-25P-SHL | 662-4007-7 |         | 25              | 13.92 |
| DF36A-30P-SHL | 662-4019-6 |         | 30              | 15.92 |
| DF36A-40P-SHL | 662-4013-0 |         | 40              | 19.92 |
| DF36A-45P-SHL | 662-4010-1 |         | 45              | 21.92 |
| DF36A-50P-SHL | 662-4045-6 |         | 50              | 23.92 |

Note 1 : Reel packaging (10,000 pcs/reel).  
Order by number of reels.

### [ Space-saving ]

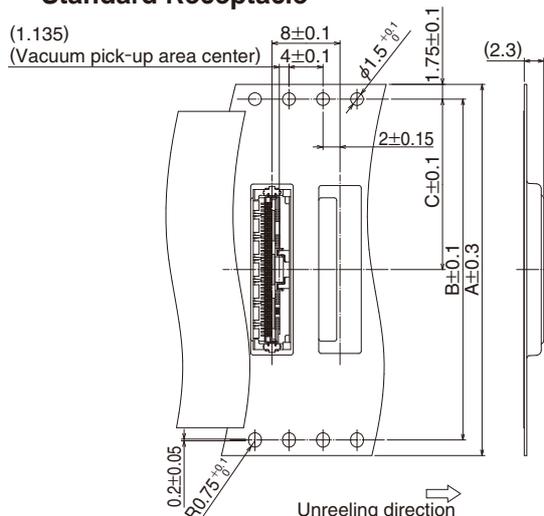
All dimensions : mm

| Part No.     | HRS No.    | Plating | No. of Contacts | A     |
|--------------|------------|---------|-----------------|-------|
| DF36-15P-SHL | 662-4026-1 | Gold    | 15              | 9.92  |
| DF36-20P-SHL | 662-4041-5 |         | 20              | 11.92 |
| DF36-25P-SHL | 662-4012-7 |         | 25              | 13.92 |

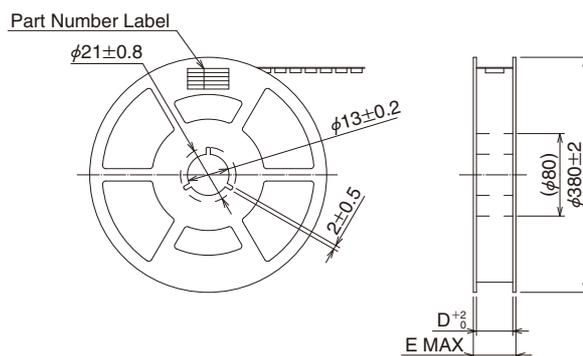
Note 1 : Reel packaging (10,000 pcs/reel).  
Order by number of reels.

## ◆Packaging Specification

### ●Embossed Carrier Tape Dimensions – Standard Receptacle



### ●Reel Dimensions



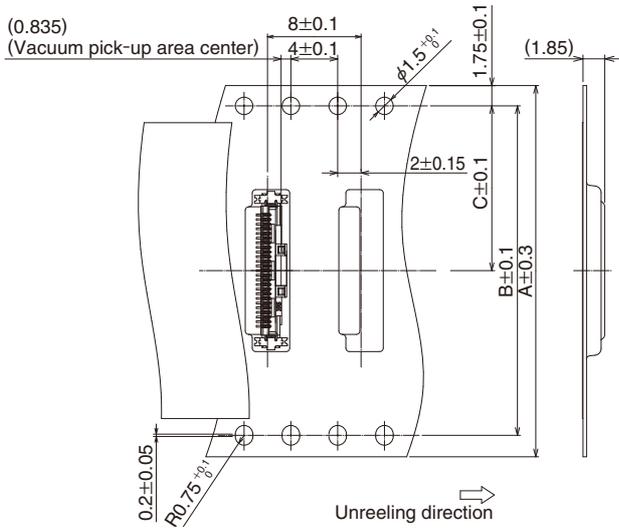
All dimensions : mm

| Part No.           | HRS No.       | No. of Contacts | A  | B    | C    | D    | E    |
|--------------------|---------------|-----------------|----|------|------|------|------|
| DF36A-15S-0.4V(**) | 662-4509-5 ** | 15              | 32 | 28.4 | 14.2 | 32.4 | 38.4 |
| DF36A-25S-0.4V(**) | 662-4011-4 ** | 25              | 32 | 28.4 | 14.2 | 32.4 | 38.4 |
| DF36A-30S-0.4V(**) | 662-4017-0 ** | 30              | 32 | 28.4 | 14.2 | 32.4 | 38.4 |
| DF36A-40S-0.4V(**) | 662-4003-6 ** | 40              | 44 | 40.4 | 20.2 | 44.4 | 50.4 |
| DF36A-45S-0.4V(**) | 662-4008-0 ** | 45              | 44 | 40.4 | 20.2 | 44.4 | 50.4 |
| DF36A-50S-0.4V(**) | 662-4043-0 ** | 50              | 44 | 40.4 | 20.2 | 44.4 | 50.4 |

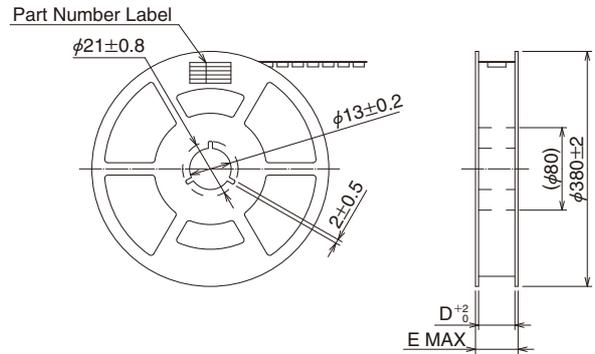
Note 1 : Tape and reel packaging (4,000 pcs/reel).

### ◆Packaging Specification

#### ●Embossed Carrier Tape Dimensions – Space saving Receptacle



#### ●Reel Dimensions



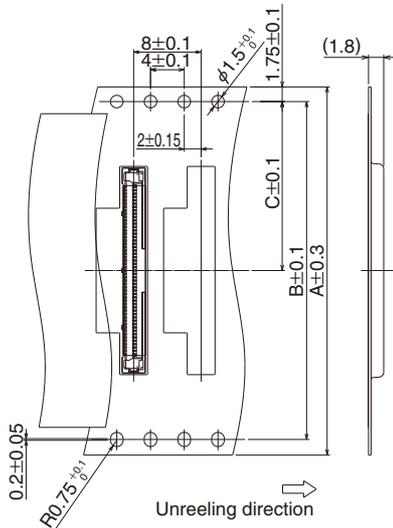
All dimensions : mm

| Part No.          | HRS No.       | No. of Contacts | A  | B    | C    | D    | E    |
|-------------------|---------------|-----------------|----|------|------|------|------|
| DF36-15S-0.4V(**) | 662-4031-1 ** | 15              | 32 | 28.4 | 14.2 | 32.4 | 38.4 |
| DF36-20S-0.4V(**) | 662-4039-3 ** | 20              | 32 | 28.4 | 14.2 | 32.4 | 38.4 |
| DF36-25S-0.4V(**) | 662-4005-1 ** | 25              | 32 | 28.4 | 14.2 | 32.4 | 38.4 |

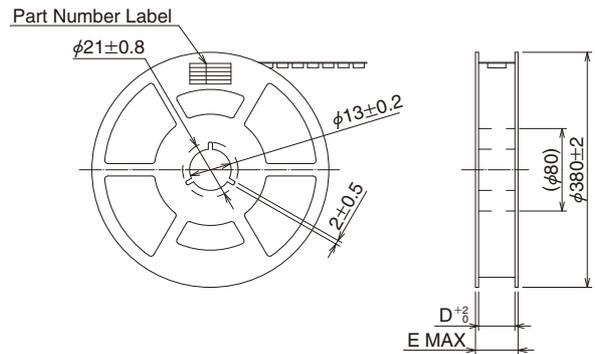
Note 1 : Tape and reel packaging (5,000 pcs/reel).

### ◆Packaging Specification

#### ●Plug



#### ●Reel Dimensions



All dimensions : mm

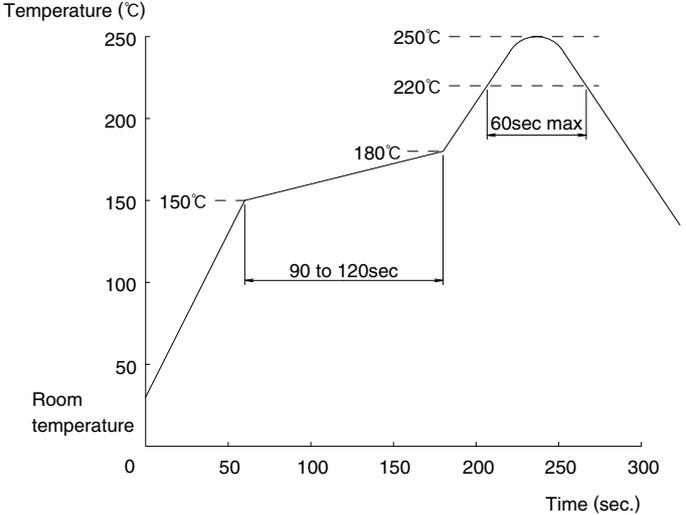
| Part No.            | HRS No.       | No. of Contacts | A  | B    | C    | D    | E    |
|---------------------|---------------|-----------------|----|------|------|------|------|
| DF36C-15P-0.4SD(**) | 662-4035-2 ** | 15              | 32 | 28.4 | 14.2 | 32.4 | 32.4 |
| DF36-20P-0.4SD(**)  | 662-4040-2 ** | 20              | 32 | 28.4 | 14.2 | 32.4 | 32.4 |
| DF36-25P-0.4SD(**)  | 662-4006-4 ** | 25              | 32 | 28.4 | 14.2 | 32.4 | 32.4 |
| DF36-30P-0.4SD(**)  | 662-4018-3 ** | 30              | 32 | 28.4 | 14.2 | 32.4 | 32.4 |
| DF36-40P-0.4SD(**)  | 662-4002-3 ** | 40              | 44 | 40.4 | 20.2 | 44.4 | 44.4 |
| DF36-45P-0.4SD(**)  | 662-4009-2 ** | 45              | 44 | 40.4 | 20.2 | 44.4 | 44.4 |
| DF36-50P-0.4SD(**)  | 662-4044-3 ** | 50              | 44 | 40.4 | 20.2 | 44.4 | 44.4 |

Note 1 : Tape and reel packaging (5,000 pcs/reel).

## ◆ Extraction tool

For details about the extraction tool, please contact your Hirose sales representative.

## ◆ Usage Recommendations

|  |   |
|--|---|
| <p>1.Recommended temperature profile</p>                                       |  <p>Solder composition : Paste, 96.5%Sn/3.0%Ag/0.5%Cu</p> <p>Note 1 : Up to 2 cycles of Reflow soldering are possible under the same conditions, provided that there is a return to normal temperature between the first and second cycle.</p> <p>Note 2 : The temperature profile indicates the board surface temperature at the point of contacts with the connector terminals.</p> |
| <p>2.Recommended manual soldering</p>  | <p>Manual soldering : 350°C for 3 seconds<br/>Do NOT use flux compound when manual soldering.</p>   |
| <p>3.Recommended screen thickness and open area ratio (Pattern area ratio)</p> | <p>Standard Thickness : 0.1mm<br/>Open area ratios : Lead terminal : 90%<br/>Ground terminal : 100%</p> <p>Space-saving Thickness : 0.1mm<br/>Open area ratios : Lead terminal : 90%<br/>Ground terminal : 90%</p>  |
| <p>4.Board warpage</p>   | <p>Maximum of 0.02mm at the connector center, with both ends of the connector as reference points.</p>  |
| <p>5.Cleaning conditions</p>   | <p>IPA (Isopropyl Alcohol) cleaning is permitted. (Cleaning is not recommended as it may change the feel of the mating and un-mating of the connector. Please contact your Hirose sales representative for information if you plan to use any other cleaning agents.)</p>   |

## ◆ Precautions

### Precautions

#### ■ Mating / un-mating

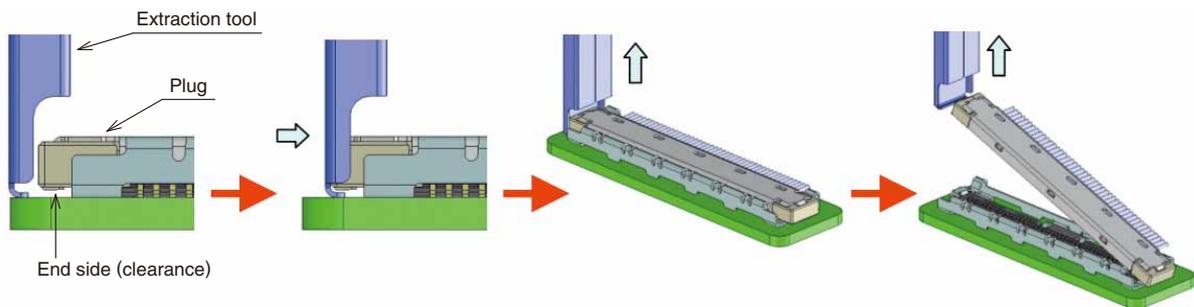
##### [ Standard ]

Mate the plug with the receptacle by pressing straight against the entire plug surface. Do NOT mate the plug while holding by the terminated cable.

Use a dedicated extraction tool to un-mate the plug.

Insert the tool under either end of the plug (clearance) and pull straight up as illustrated below.

Please refrain from removing by holding the electrical cable, otherwise this may result in cable disconnection, connector breakage and so on.



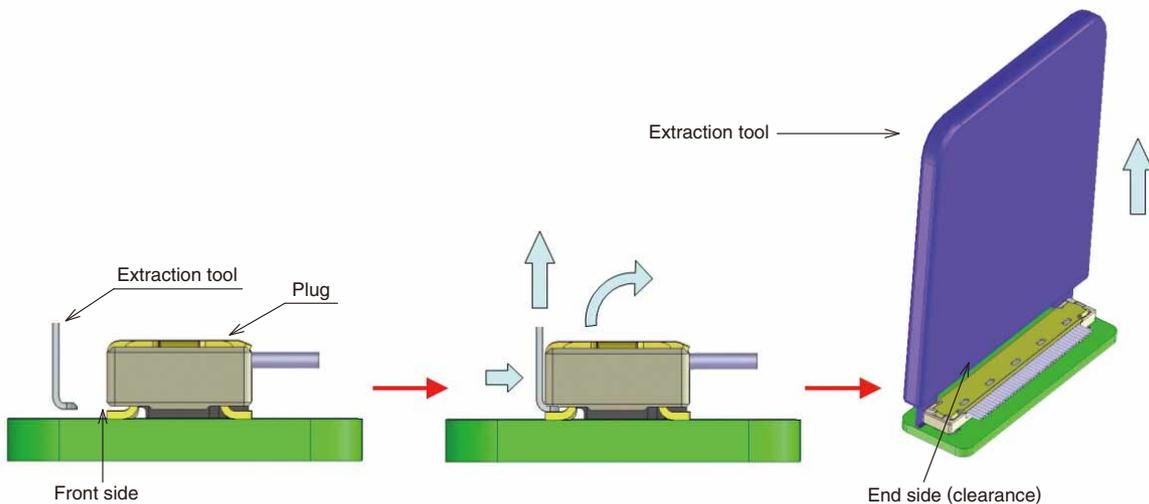
##### [ Space-saving ]

Mate the plug with the receptacle by pressing straight against the entire plug surface, the same as the standard. Use a dedicated extraction tool to un-mate the plug.

Insert the tool under the plug at the front side (clearance) and pull straight up, as illustrated below.

Do NOT mate / un-mate the connectors when receptacle is not mounted on the board.

Please refrain from removing by holding the electrical cable, otherwise this may result in cable disconnection, connector breakage and so on.



- Do not mate / un-mate the connectors when receptacle is not mounted on the board.
- In the manual soldering process, don't carry out the flux coating which will cause a flux blister on the connector.
- Different production lots may exhibit different shades of the insulator materials. No affect on form, fit or function of the connectors.
- Excessive scoop insertion or extraction may result in damage.



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