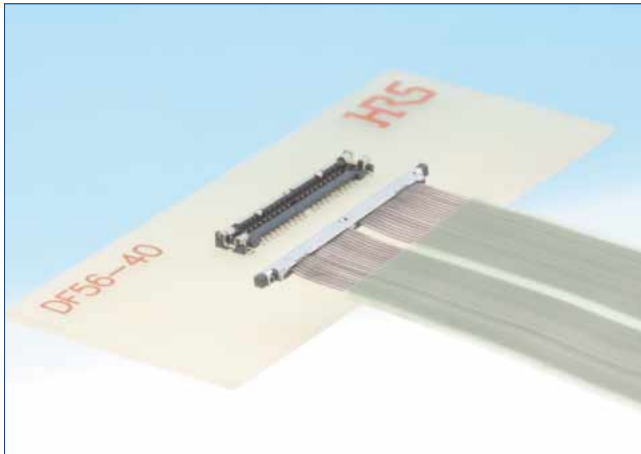


# 0.3mm Pitch, Vertical mating, Board-to-Micro Coaxial Cable Connectors

## DF56 Series



### High contact reliability

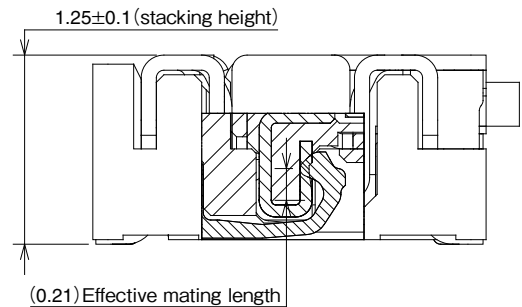


Fig.1

## ■ Features

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

Small pitch (0.3mm) and mated height (1.25mm) allows use in space-restricted areas.  
It's a small connector with mated height of 1.25mm (1.35mm MAX) and depth of 2.6mm.

### 2.Compatibility with small diameter hinges

AWG44 x 40 are compatible with hinge diameters of  $\phi 2.8\text{mm}$ , which allows wiring in small hinge in side devices.

### 3.Reliable electrical and mechanical connection

Despite its small mated height, unique contact configuration assures highly reliable connection, with effective mating length of 0.21mm.(Fig.1)

### 4.Durable plug construction

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

### 5.Enhanced shielding and ground connections

Metal shells on the plug and receptacle connect to each other with a reliable multi-point ground contacts, assuring reliable ground connection and EMC protection. (Fig.2)

### 6.Reliable lock

Fully mated condition is assured with reliable locks at 4 locations, confirming it with a distinct tactile click. (Fig.3)

### 7.Solder wicking prevention

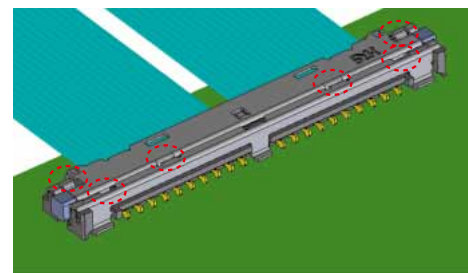
Nickel barriers prevent solder wicking in the critical contact areas.

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

\*As defined by IEC61249-2-21

Br-900 ppm maximum, Cl-900 ppm maximum,  
Cl + Br combined-1,500 ppm maximum.

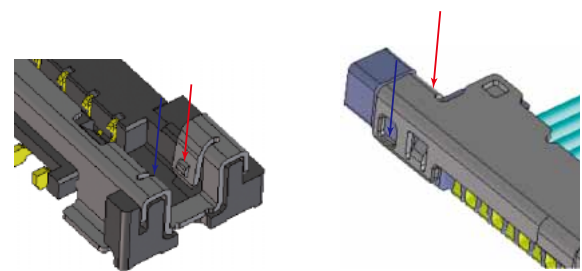
### Enhanced shielding



Multi-point ground contacts

Fig.2

### Distinct tactile click



4-point lock : 2 points at each end

Fig.3

## ■ Connectors for conductivity tests

We have a line-up of plug and receptacle connectors for inspection, usable for electrical testing.

## Specifications

|         |                             |                                                  |                                                            |                                        |
|---------|-----------------------------|--------------------------------------------------|------------------------------------------------------------|----------------------------------------|
| Ratings | Current rating              | 0.2A (42 AWG)<br>0.15A (44 AWG)<br>0.1A (46 AWG) | Operating temperature range :<br>Operating humidity range: | -35 to +85°C (Note 1)<br>20% to 80% RH |
|         | Voltage rating<br>30Vrms AC | 30V AC                                           | Storage temperature range :<br>Storage humidity range :    | -10 to +60°C (Note 2)<br>40% to 70% RH |

| Item                            | Specification                                                                                    | Conditions                                                                                               |
|---------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1. Insulation resistance        | 50MΩ min.                                                                                        | 100V DC                                                                                                  |
| 2. Withstanding voltage         | No flashover or insulation breakdown                                                             | 100Vrms 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                                                     | Frequency : 10 to 55Hz, single amplitude of 0.75mm, 10 cycles in each of the 3 axis                      |
| 5. Humidity                     | Contact resistance (change from initial value)<br>50mΩ max.<br>Insulation resistance : 25MΩ min. | 96 hours at of 40 ±2°C, and humidity of 90 to 95%                                                        |
| 6. Temperature cycle            | Contact resistance (change from initial value)<br>50mΩ max.<br>Insulation resistance : 25MΩ min. | -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)<br>50mΩ max.                                      | 20 cycles                                                                                                |
| 8. Resistance to soldering heat | No deformation of affecting performance                                                          | Reflow : At the recommended temperature profile<br>Manual soldering : 350°C for 3 seconds                |

Note1 : Includes temperature rise caused by current flow.

Note2 : 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 installed connectors in storage, shipment or during transportation after board mounting.

Note3 : Temperature rise of connector body only, and that of case is not included.

## Materials / Finish

| Product    | Part           | Material        | Finish      | Remarks |
|------------|----------------|-----------------|-------------|---------|
| Receptacle | Insulator      | LCP             | Color:Black | UL94V-0 |
|            | Contacts       | Phosphor bronze | Gold plated | ——      |
|            | Metal fittings | Phosphor bronze | Tin plated  | ——      |
| Plug       | Insulator      | LCP             | Color:Black | UL94V-0 |
|            | Contacts       | Phosphor bronze | Gold plated | ——      |
|            | Metal cover    | Stainless       | Tin plated  | ——      |
| Shell      | Metal cover    | Stainless       | Tin plated  | ——      |

## 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 56 J - \* S - 0.3 V (\*\*)**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

**DF 56 J - \* P - SHL**

① ② ③ ④ ⑤ ⑨

|                                                                                                                                                                                                 |                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| ① Series name : DF                                                                                                                                                                              | ⑥ Contact pitch : 0.3mm                                                |
| ② Series No. : 56                                                                                                                                                                               |                                                                        |
| ③ Connector style<br>C : Stand-off type (No pattern prohibited area under connector)<br>J : Connector for conductivity tests<br>Blank : Standard (With pattern prohibited area under connector) | ⑦ Termination type<br>V : Straight SMT<br>SD : Fine coaxial cable plug |
| ④ Number of contacts<br>C : Stand-off type 26, 30, 40<br>Standard : 40, 50                                                                                                                      | ⑧ Packaging<br>(51) : Embossed tape packaging                          |
| ⑤ Connector type<br>S : Receptacle<br>P : Plug                                                                                                                                                  | ⑨ Installation item (separate)<br>SHL : Metal cover                    |

## Combinations

### [Standard use]

DF56-\*S-0.3V(\*\*) + DF56-\*P-ASSY  
[DF56-\*P-0.3SD(\*\*)]  
[DF56-\*P-SHL]

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

### [Receptacle conductivity test]

DF56-\*S-0.3V(\*\*) + DF56J-\*P-ASSY(Note)  
[DF56-\*P-0.3SD(\*\*)]  
[DF56J-\*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 for conductivity test]

DF56J-\*S-0.3V(\*\*)(Note) + DF56-\*P-ASSY  
[DF56-\*P-0.3SD(\*\*)]  
[DF56-\*P-SHL]  
DF56CJ-\*S-0.3V(\*\*) + DF56-\*P-ASSY  
[DF56-\*P-0.3SD(\*\*)]  
[DF56-\*P-SHL]

Note : This harness item is only usable for the plugs and receptacles test.

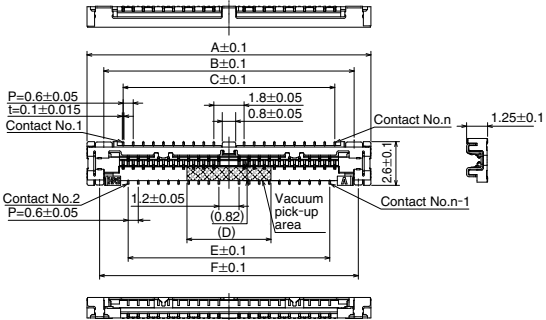
For the product specification of the above combination, please contact our sales department.

\* : ASSY means a harness item.

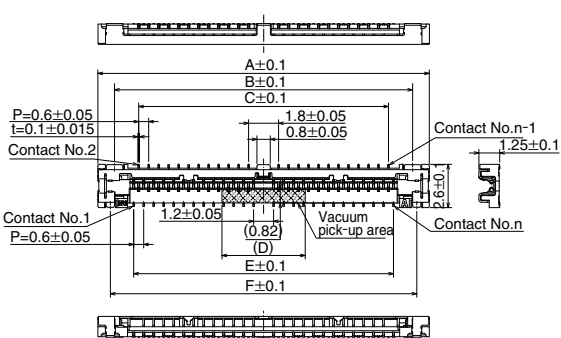
■Receptacle (SMT)



●40 pos



●50 pos



Note : The position of contact No.1 is different depending on No. of positions.

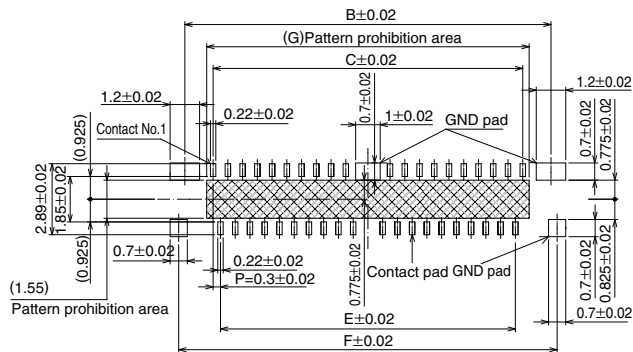
[Specifications number] - \*\*, (\*\*)  
(51) : Embossed tape packaging

Unit : mm

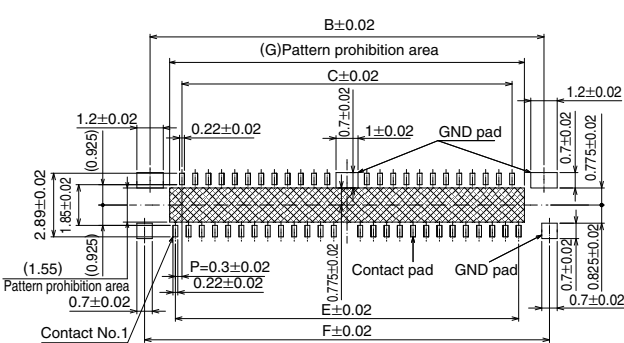
| Part No.          | HRS No.       | No. of contacts | A     | B     | C     | D      | E     | F     |
|-------------------|---------------|-----------------|-------|-------|-------|--------|-------|-------|
| DF56-40S-0.3V(**) | 662-5600-0 ** | 40              | 16.90 | 14.90 | 12.60 | (5.00) | 12.00 | 15.40 |
| DF56-50S-0.3V(**) | 662-5606-7 ** | 50              | 19.90 | 17.90 | 15.00 |        | 15.60 | 18.40 |

◆Recommended PCB mounting pattern

●40 pos



●50 pos



Note : The position of contact No.1 is different depending on No. of positions.

[Specifications number] - \*\*, (\*\*)  
(51) : Embossed tape packaging

Unit : mm

| Part No.          | HRS No.       | No. of contacts | B     | C     | D      | E     | F     | G     |
|-------------------|---------------|-----------------|-------|-------|--------|-------|-------|-------|
| DF56-40S-0.3V(**) | 662-5600-0 ** | 40              | 14.90 | 12.60 | (5.00) | 12.00 | 15.40 | 13.12 |
| DF56-50S-0.3V(**) | 662-5606-7 ** | 50              | 17.90 | 15.00 |        | 15.60 | 18.40 | 16.12 |

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



Technical drawing of the vacuum pick-up unit, showing top and side views with dimensions and labels.

**Top View Dimensions:**

- $A \pm 0.1$
- $B \pm 0.1$
- $C \pm 0.1$
- $1.8 \pm 0.05$
- $0.8 \pm 0.05$
- $1.2 \pm 0.05$
- $0.82$  (D)
- $E \pm 0.1$
- $F \pm 0.1$
- $2.6 \pm 0.1$
- $1.45 \pm 0.1$

**Labels:**

- $P = 0.6 \pm 0.05$
- $t = 0.1 \pm 0.015$
- Contact No.2
- Contact No.1
- $P = 0.6 \pm 0.05$
- Vacuum pick-up area
- Contact No.n-1
- Contact No.n

Technical drawing of a vacuum pick-up unit, showing top, side, and detail views with dimensions.

**Top View Dimensions:**

- Overall width:  $A \pm 0.1$
- Overall height:  $B \pm 0.1$
- Internal width:  $C \pm 0.1$
- Distance from left edge to center:  $P = 0.6 \pm 0.05$
- Distance from center to right edge:  $1.8 \pm 0.05$
- Distance from center to right edge (alternative):  $0.8 \pm 0.05$
- Distance from left edge to contact No. 1:  $t = 0.1 \pm 0.015$
- Distance from left edge to contact No. 2:  $1.2 \pm 0.05$
- Distance from contact No. 2 to center:  $(0.82)$
- Distance from center to contact No. n-1:  $(D)$
- Distance from center to contact No. n:  $E \pm 0.1$
- Distance from contact No. n to right edge:  $F \pm 0.1$

**Side View Dimensions:**

- Overall height:  $1.45 \pm 0.1$

**Detail View Dimensions:**

- Distance from left edge to contact No. 1:  $P = 0.6 \pm 0.05$
- Distance from left edge to contact No. 2:  $t = 0.1 \pm 0.015$
- Distance from contact No. 2 to center:  $(0.82)$
- Distance from center to contact No. n-1:  $(D)$
- Distance from center to contact No. n:  $E \pm 0.1$
- Distance from contact No. n to right edge:  $F \pm 0.1$

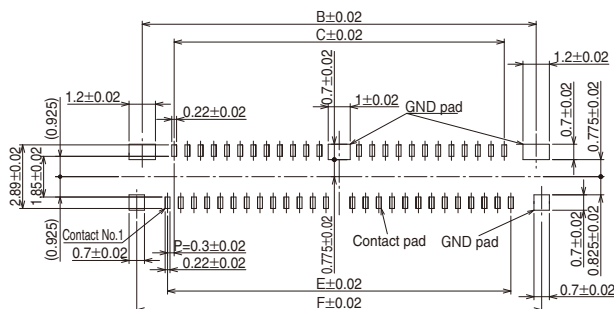
**Labels:**

- Contact No. 1
- Contact No. 2
- Contact No. n
- Contact No. n-1
- Vacuum pick-up area

**[Specifications number] - \* \*, (\* \*)**  
(51) : Embossed tape packaging

| Part No.           | HRS No.       | No. of contacts | A     | B     | C     | D      | E     | F     |
|--------------------|---------------|-----------------|-------|-------|-------|--------|-------|-------|
| DF56C-26S-0.3V(**) | 662-5603-9 ** | 26              | 12.70 | 10.70 | 7.80  | (5.00) | 8.40  | 11.20 |
| DF56C-30S-0.3V(**) | 662-5616-0 ** | 30              | 13.90 | 11.90 | 9.00  |        | 9.60  | 12.40 |
| DF56C-40S-0.3V(**) | 662-5619-9 ** | 40              | 16.90 | 14.90 | 12.60 |        | 12.00 | 15.40 |

●26 pos/30 pos

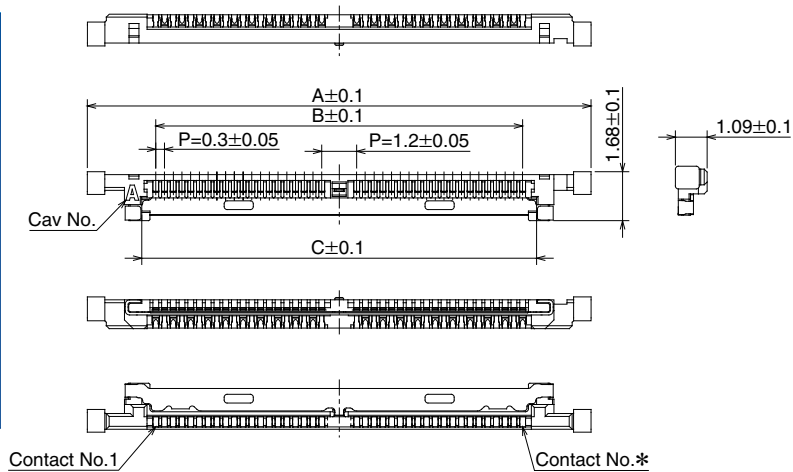
[illegible]

**[Specifications number] - \* \*, (\* \*)**  
(51) : Embossed tape packaging

| Part No.           | HRS No.       | No. of contacts | B     | C     | E     | F     |
|--------------------|---------------|-----------------|-------|-------|-------|-------|
| DF56C-26S-0.3V(**) | 662-5603-9 ** | 26              | 10.70 | 7.80  | 8.40  | 11.20 |
| DF56C-30S-0.3V(**) | 662-5616-0 ** | 30              | 11.90 | 9.00  | 9.60  | 12.40 |
| DF56C-40S-0.3V(**) | 662-5619-9 ** | 40              | 14.90 | 12.60 | 12.00 | 15.40 |

**HRS** 5

■ Plug



[Specifications number] - \*\*, (\*\*)  
(51) : Embossed tape packaging

★Standard type

Unit : mm

| Part No.           | HRS No.       | No. of contacts | A     | B     | C     | D     |
|--------------------|---------------|-----------------|-------|-------|-------|-------|
| DF56-26P-0.3SD(**) | 662-5604-1 ** | 26              | 13.10 | 8.40  | 9.36  | 9.20  |
| DF56-30P-0.3SD(**) | 662-5617-3 ** | 30              | 14.30 | 9.60  | 10.56 | 10.40 |
| DF56-40P-0.3SD(**) | 662-5601-3 ** | 40              | 17.30 | 12.60 | 13.56 | 13.40 |
| DF56-50P-0.3SD(**) | 662-5607-0 ** | 50              | 20.30 | 15.60 | 16.56 | 16.40 |

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

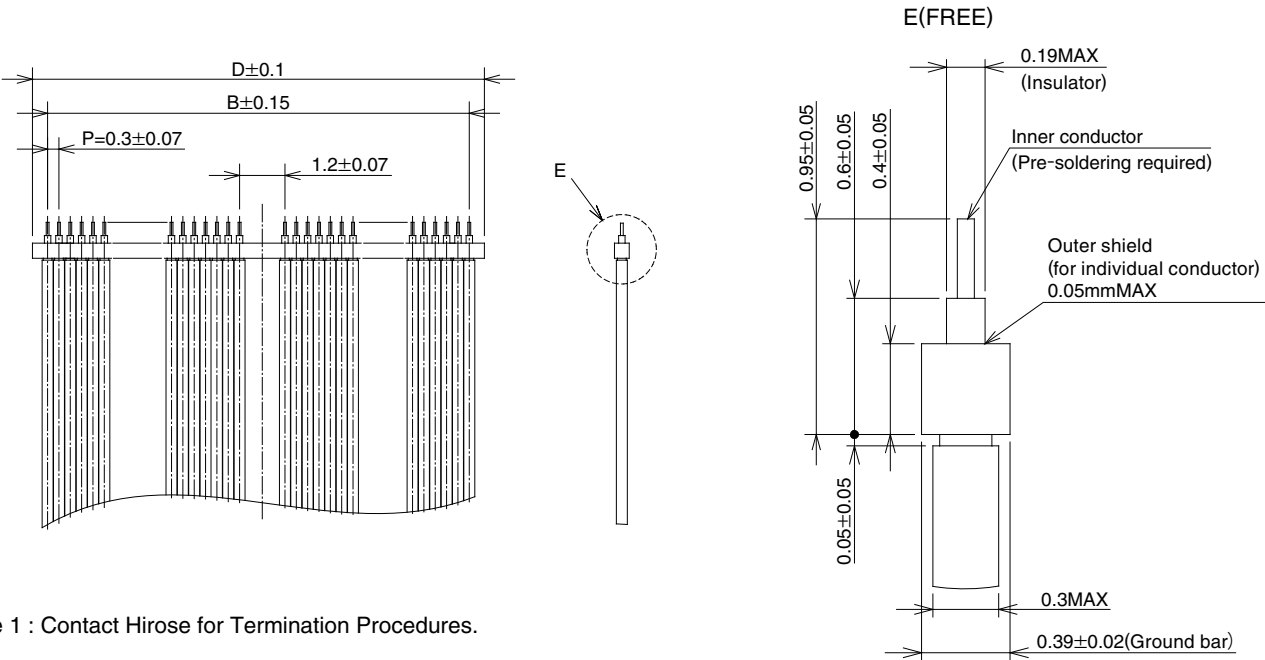
Note 2 : The metal cover (DF56-\*P-SHL) is required for micro coaxial cable termination.

★The type of emphasis for operation (A part in a different)

Unit : mm

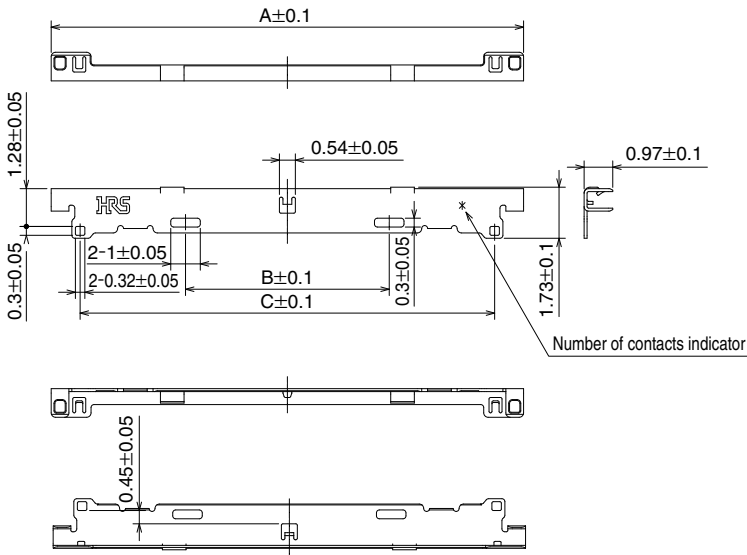
| Part No.            | HRS No.       | No. of contacts | A     | B     | C     | D     |
|---------------------|---------------|-----------------|-------|-------|-------|-------|
| DF56L-26P-0.3SD(**) | 662-5623-6 ** | 26              | 13.50 | 8.40  | 9.36  | 9.20  |
| DF56L-30P-0.3SD(**) | 662-5625-1 ** | 30              | 14.70 | 9.60  | 10.56 | 10.40 |
| DF56L-50P-0.3SD(**) | 662-5626-4 ** | 50              | 20.70 | 15.60 | 16.56 | 16.40 |

◆Recommended Micro Coaxial Cable Preparation



Note 1 : Contact Hirose for Termination Procedures.

■Metal cover



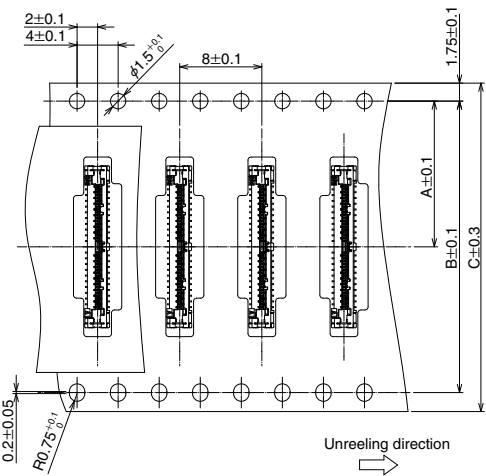
Unit : mm

| Part No.     | HRS No.    | No. of contacts | A     | B    | C     |
|--------------|------------|-----------------|-------|------|-------|
| DF56-26P-SHL | 662-5605-4 | 26              | 11.80 | 3.90 | 9.84  |
| DF56-30P-SHL | 662-5618-6 | 30              | 13.00 | 3.90 | 11.04 |
| DF56-40P-SHL | 662-5602-6 | 40              | 16.00 | 6.90 | 14.04 |
| DF56-50P-SHL | 662-5608-2 | 50              | 19.00 | 7.50 | 17.04 |

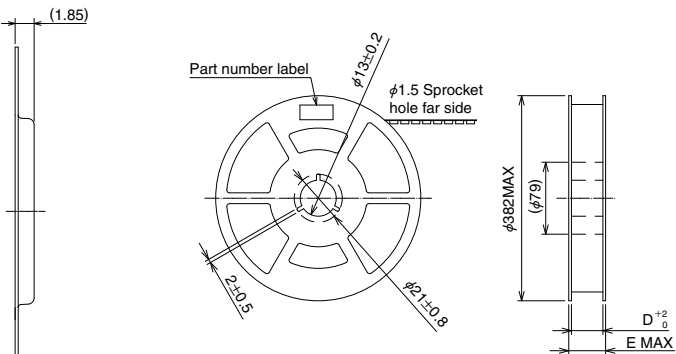
Note 1 : Tape and reel packaging (10,000 pcs/reel). Order by number of reels.

◆Packaging Specification

●Embossed Carrier Tape Dimensions—Receptacles



●Reel Dimensions



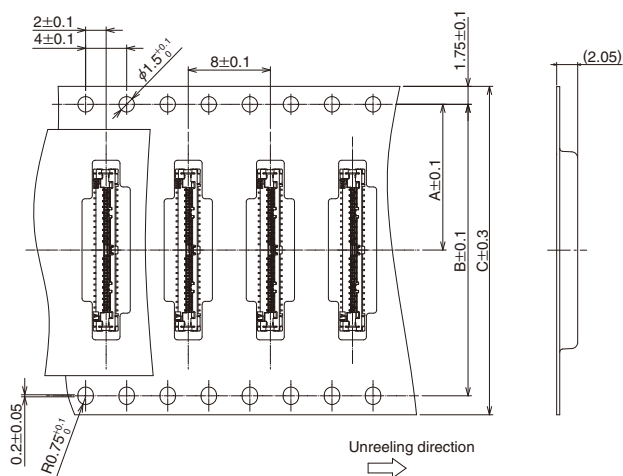
Unit : mm

| Part No.          | HRS No.       | No. of contacts | A    | B    | C    | D    | E    |
|-------------------|---------------|-----------------|------|------|------|------|------|
| DF56-40S-0.3V(**) | 662-5600-0 ** | 40              | 14.2 | 28.4 | 32.0 | 32.4 | 38.4 |
| DF56-50S-0.3V(**) | 662-5606-7 ** | 50              |      |      |      |      |      |

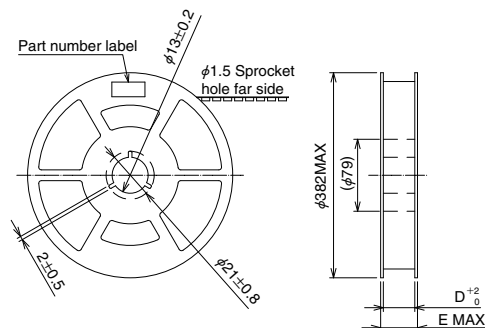
Note : When the number of contacts is 30 or less, the feed holes are only on one side of the tape. (Top of figure φ1.5 hole only)

## ◆ Embossed tape dimensions (JIS C 0806 compliant).....Stand-off type

### ● Receptacles



### ● Reel Dimensions



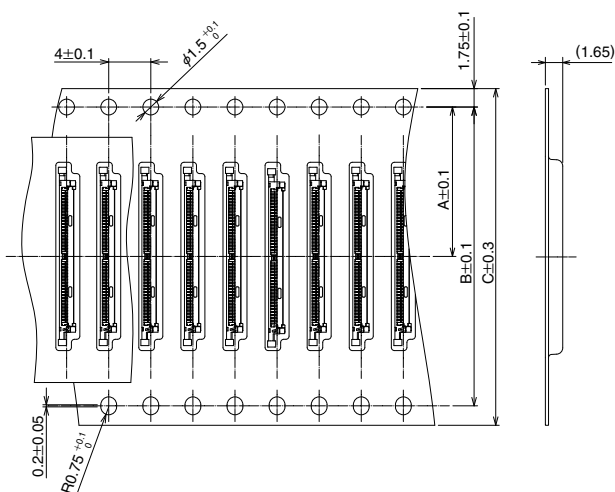
Unit : mm

| Part No.           | HRS No.       | No. of contacts | A    | B    | C    | D    | E    |
|--------------------|---------------|-----------------|------|------|------|------|------|
| DF56C-26S-0.3V(**) | 662-5603-9 ** | 26              | 11.5 | —    | 24.0 | 24.4 | 30.4 |
| DF56C-30S-0.3V(**) | 662-5616-0 ** | 30              |      |      |      |      |      |
| DF56C-40S-0.3V(**) | 662-5619-9 ** | 40              | 14.2 | 28.4 | 32.0 | 32.4 | 38.4 |

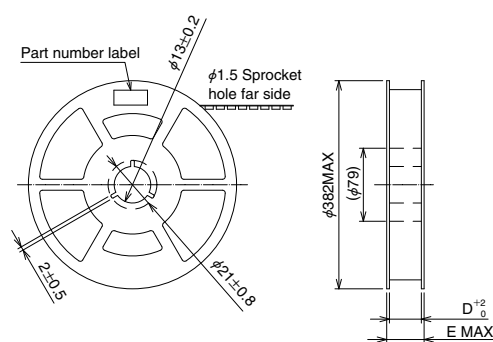
Note : When the number of contacts is 30 or less, the feed holes are only on one side of the tape. (Top of figure  $\phi 1.5$  hole only)

## ◆ Packaging Specification

### ● Embossed Carrier Tape Dimensions—Plugs



### ● Reel Dimensions



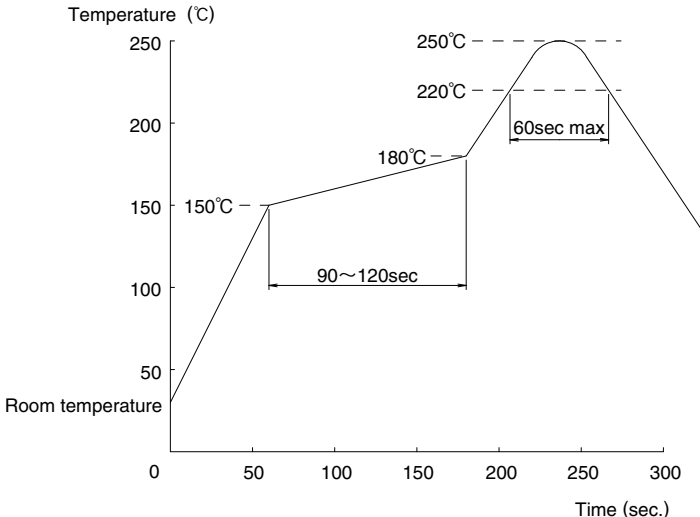
Unit : mm

| Part No.           | HRS No.       | No. of contacts | A    | B    | C    | D    | E    |
|--------------------|---------------|-----------------|------|------|------|------|------|
| DF56-26P-0.3SD(**) | 662-5604-1 ** | 26              | 14.2 | 28.4 | 32.0 | 32.4 | 38.4 |
| DF56-30P-0.3SD(**) | 662-5617-3 ** | 30              |      |      |      |      |      |
| DF56-40P-0.3SD(**) | 662-5601-3 ** | 40              |      |      |      |      |      |
| DF56-50P-0.3SD(**) | 662-5607-0 ** | 50              |      |      |      |      |      |

◆Extraction tool

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

◆Usage Recommendations

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.Recommended temperature profile                                       | <div></div> <p><b>Applicable Conditions</b></p> <ul style="list-style-type: none"><li>1. Peak Temperature : 250°C max.</li><li>2. Heating : 220°C min. for 60 seconds max.</li><li>3. Pre-heating : 150 to 180°C for 90 to 120 seconds.</li><li>4. Number of cycles : Up to 2 cycles</li></ul> <p>*Solder composition : Sn-3Ag-0.5Cu<br/>(Note 1) Values in this temperature profile are one of the recommendations.</p> |
| 2.Recommended manual soldering                                          | Temperature of the soldering iron : 350°C max. Soldering time : 3 seconds max.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.Recommended screen thickness and open area ratio (Pattern area ratio) | Standard thickness 0.1mm<br>C: Stand-off type<br>Opening ratio : Lead 100%, ground 100%<br>None: Standard type<br>Opening ratio : Lead 60%, ground 100%                                                                                                                                                                                                                                                                                                                                                    |
| 4.Board warpage                                                         | Maximum of 0.02mm at the connector center, with both ends of the connector as reference points.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5.Cleaning conditions                                                   | 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.)                                                                                                                                                                                                                                         |

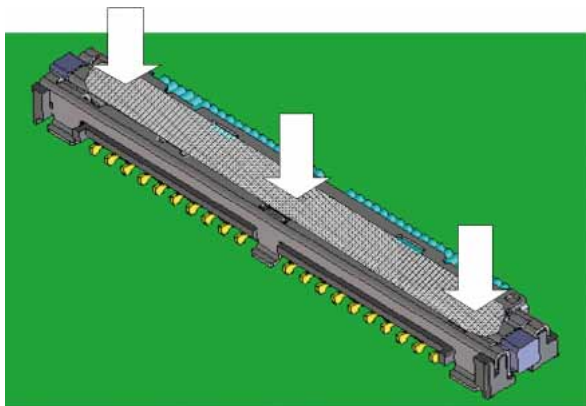
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## ◆ Precautions

### Precautions

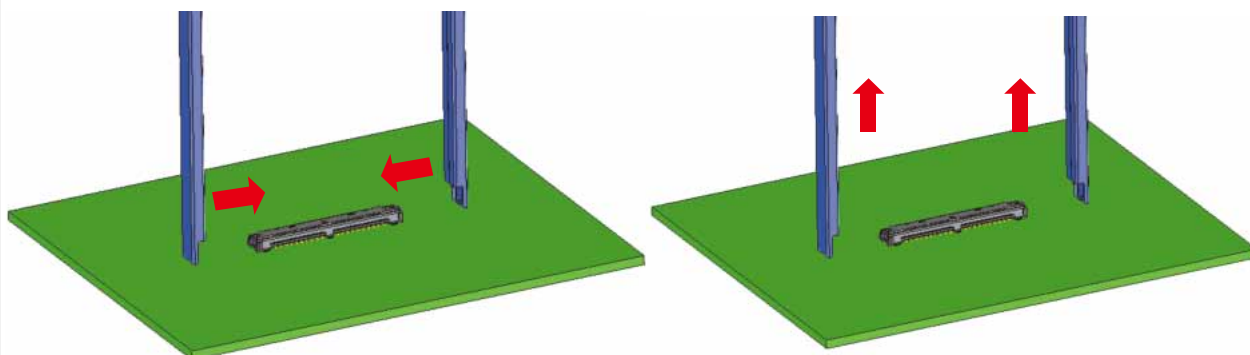
#### ■ Mating

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



#### ■ Un-mating

Use a dedicated extraction tool to un-mate the plug.  
Insert the tool under either end of the plug and pull straight up as illustrated.



■ 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.

■ Excessive scoop insertion or extraction may result in damage.

MEMO :

Handwriting practice area consisting of 30 horizontal dashed lines.

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. HEADQUARTERS CHICAGO OFFICE**  
2300 Warrenville Road, Suite 150,  
Downers Grove, IL 60515  
Phone : +1-630-282-6700  
<http://www.hirose.com/us/>

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. BOSTON OFFICE**  
300 Brickstone Square Suite 201,  
Andover, MA 01810  
Phone : +1-978-662-5255

**GERMANY:**

**HIROSE ELECTRIC EUROPE B.V. NUREMBERG OFFICE**  
Neumeyerstrasse 22-26, 90411 Nurnberg  
Phone : +49-911 32 68 89 63  
Fax : +49-911 32 68 89 69  
<http://www.hirose.com/eu/>

**UNITED KINGDOM:**

**HIROSE ELECTRIC EUROPE BV (UK BRANCH)**  
4 Newton Court, Kelvin Drive, Knowlhill,  
Milton Keynes, MK5 8NH  
Phone : +44-1908 202050  
Fax : +44-1908 202058  
<http://www.hirose.com/eu/>

**CHINA:**

**HIROSE ELECTRIC TECHNOLOGIES (SHENZHEN) CO., LTD.**  
Room 09-13, 19/F, Office Tower Shun Hing Square, Di Wang Commercial Centre,  
5002 Shen Nan Dong Road, Shenzhen City, Guangdong Province, 518008  
Phone : +86-755-8207-0851  
Fax : +86-755-8207-0873  
<http://www.hirose.com/cn/>

**KOREA:**

**HIROSE KOREA CO.,LTD.**  
143, Gongdan 1-daero, Siheung-si,  
Gyeonggi-do, 15084, Korea  
Phone : +82-31-496-7000  
Fax : +82-31-496-7100  
<http://www.hirose.co.kr/>

**INDIA:**

**HIROSE ELECTRIC SINGAPORE PTE. LTD. BANGALORE LIAISON OFFICE**  
Unit No-403, 4th Floor, No-84, Barton Centre, Mahatma  
Gandhi (MG) Road, Bangalore 560 001, Karnataka, India  
Phone : +91-80-4120 1907  
Fax : +91-80-4120 9908  
<http://www.hirose.com/sg/>

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. SAN JOSE OFFICE**  
2841 Junction Ave, Suite 200  
San Jose, CA. 95134  
Phone : +1-408-253-9640  
Fax : +1-408-253-9641  
<http://www.hirose.com/us/>

**THE NETHERLANDS:**

**HIROSE ELECTRIC EUROPE B.V.**  
Hogehillweg #8 1101 CC Amsterdam Z-O  
Phone : +31-20-6557460  
Fax : +31-20-6557469  
<http://www.hirose.com/eu/>

**GERMANY:**

**HIROSE ELECTRIC EUROPE B.V. HANOVER OFFICE**  
Bayernstr. 3, Haus C 30855 Langenhagen, Germany  
Phone : +49-511 97 82 61 30  
Fax : +49-511 97 82 61 35  
<http://www.hirose.com/eu/>

**CHINA:**

**HIROSE ELECTRIC (SHANGHAI) CO., LTD.**  
18, Enterprise Center Tower 2, 209# Gong He  
Road, Jing'an District, Shanghai, CHINA 200070  
Phone : +86-21-6391-3355  
Fax : +86-21-6391-3335  
<http://www.hirose.com/cn/>

**HONG KONG:**

**HIROSE ELECTRIC HONGKONG TRADING CO., LTD.**  
Room 1001, West Wing, Tsim Sha Tsui Centre, 66  
Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong  
Phone : +852-2803-5338  
Fax : +852-2591-6560  
<http://www.hirose.com/hk/>

**SINGAPORE:**

**HIROSE ELECTRIC SINGAPORE PTE. LTD.**  
03, Anson Road, #20-01, Springleaf Tower,  
Singapore 079909  
Phone : +65-6324-6113  
Fax : +65-6324-6123  
<http://www.hirose.com/sg/>

**MALAYSIA:**

**PENANG REPRESENTATIVE OFFICE**  
73-3-1, Ideal@The One, Jalan Mahsuri, Bayan  
Lepas Penang, 11950, Malaysia  
Phone : +604-648-5536  
<http://www.hirose.com/sg/>

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. DETROIT OFFICE (AUTOMOTIVE)**  
17197 N. Laurel Park Drive, Suite 253,  
Livonia, MI 48152  
Phone : +1-734-542-9963  
Fax : +1-734-542-9964  
<http://www.hirose.com/us/>

**GERMANY:**

**HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH**  
Schoenbergstr. 20, 73760 ostfildern  
Phone : +49-711-456002-1  
Fax : +49-711-456002-299  
<http://www.hirose.com/eu/>

**FRANCE:**

**HIROSE ELECTRIC EUROPE B.V. PARIS OFFICE**  
Regus La Garenne Colombes, Place de La Belgique,  
71 Boulevard National La Garenne Colombes, 92250, France  
Phone : +33 (0) 1 7082 3170  
Fax : +33 (1) 7082 3101  
<http://www.hirose.com/eu/>

**CHINA:**

**HIROSE ELECTRIC (SHANGHAI) CO.,LTD. BEIJING BRANCH**  
A1001, Ocean International Center, Building 56# East 4th  
Ring Middle Road, ChaoYang District, Beijing, 100025  
Phone : +86-10-5165-9332  
Fax : +86-10-5908-1381  
<http://www.hirose.com/cn/>

**TAIWAN:**

**HIROSE ELECTRIC TAIWAN CO., LTD.**  
103 8F, No.87, Zhengzhou Rd., Taipei  
Phone : +886-2-2555-7377  
Fax : +886-2-2555-7350  
<http://www.hirose.com/tw/>

**INDIA:**

**HIROSE ELECTRIC SINGAPORE PTE. LTD. DELHI LIAISON OFFICE**  
Office NO.552, Regus-Green Boulevard, Level5, Tower C,  
Sec62, Plot B-9A, Block B, Noida, 201301, Uttar Pradesh, India  
Phone : +91-12-660-8018  
Fax : +91-120-4804949  
<http://www.hirose.com/sg/>

**THAILAND:**

**BANGKOK OFFICE (REPRESENTATIVE OFFICE)**  
Unit 4703, 47th FL., 1 Empire Tower, South Sathorn  
Road, Yannawa, Sathorn, Bangkok 10120 Thailand  
Phone : +66-2-686-1255  
Fax : +66-2-686-3433  
<http://www.hirose.com/sg/>



## HIROSE ELECTRIC CO.,LTD.

2-6-3, Nakagawa Chuoh, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN  
TEL: +81-45-620-3526 Fax: +81-45-591-3726  
<http://www.hirose.com>  
<http://www.hirose-connectors.com>