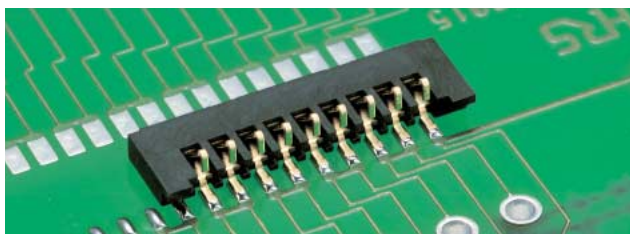
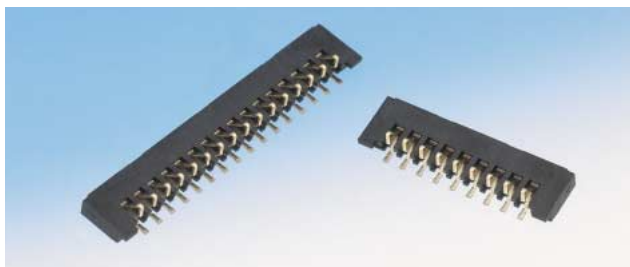
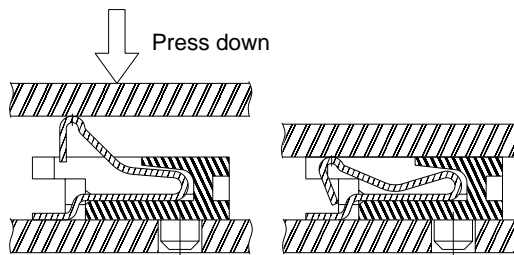


1.1mm Pitch Low Profile Compression Connectors

DF26 Series



Compression Connectors
-Mating height: 1.2mm and 1.7mm



Features

1. Low Profile

Connectors are available in heights : 1.2mm and 1.7mm.

2. Miniature, Space-Saving Design

The space-saving design of these connectors permits an increase in the mounting density as compared to equivalent products.

3. One-Piece Connector

These connectors support a reduced cost requirement since there is no need for a mating half connector. This design also permits a reduction in the number of assembly steps.

4. Variations

Number of Contacts	9 Contacts	16 Contacts	18 Contacts
Mating Height			
1.2mm	✓	✓	✓
1.7mm	✓		

Applications

LCD, cellular phones, notebook computers, miniature office automation equipment, and miniature consumer products.

Product	Item	Before Contact	Contacting (Effective Mating Height)	
1.2mm			1.55mm	1.2mm
1.7mm			2.05mm	1.7mm

Product Specifications

Rating	Rated Current Rated Voltage	0.5 A 50 V AC	Operation Temperature Range Operation Humidity Range	-35°C to 85°C (Note 1) 40% to 80%	Storage Temperature Range Storage Humidity Range	-10°C to 60°C (Note 2) 40% to 70% (Note 2)
--------	--------------------------------	------------------	---	--------------------------------------	---	---

Item	Specification	Conditions
1. Insulation resistance	500 MΩ min.	Measured at 100 V DC
2. Withstand voltage	No flashover or insulation breakdown	150 V AC for one minute
3. Contact resistance	50 mΩ max.	Measured at 100 mA
4. Vibration	No momentary disconnections of 1μs or longer	Frequency of 10 to 55 Hz at a amplitude of 0.75 mm, applied in 3 directions for 2 hours
5. Humidity resistance	Below the contact resistance standard value. Insulation resistance of 500 MΩ min.	Let stand for 96 hours at a temperature of 40 ±2°C and humidity of 90 to 95%
6. Temperature cycle	Below the contact resistance standard value. Insulation resistance of 500 MΩ min.	Five cycles of (-55°C: 30 minutes → 5 to 35°C: 10 minutes → 85°C: 30 minutes → 5 to 35°C: 10 minutes)
7. Stroke life	Below contact resistance standard value	50 stroke cycles
8. Resistance to soldering heat	No melting of resin portions that would affect performance	Reflow: At recommended temperature profile Solder: Soldering iron temperature of 300°C for 3 seconds

Note 1: Including temperature rise when conducting.

Note 2: Here, storage refers to the long-term storage of unused products prior to board mounting.

The non-conducting condition following board mounting and temporary storage conditions such as at the time of transportation are covered by the Operating Temperature/Humidity Range.

Note 3: The aforementioned standards are representative of this series. Refer to the Specifications for individual, formal exchanges.

Materials

Item	Part	Material	Finish	Remarks
Compression	Insulator	LCP	Black	UL94V-0
	Contacts	Phosphor bronze	Gold plating	—

Ordering Information

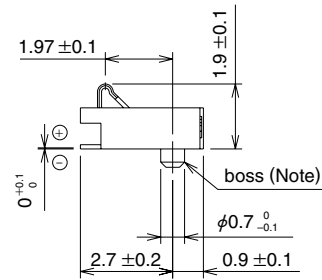
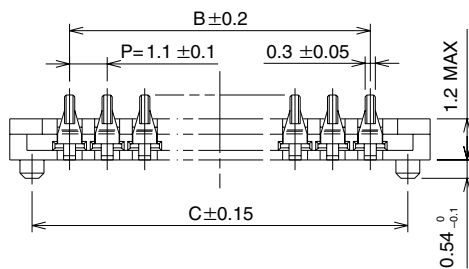
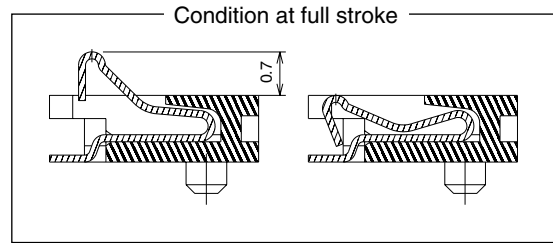
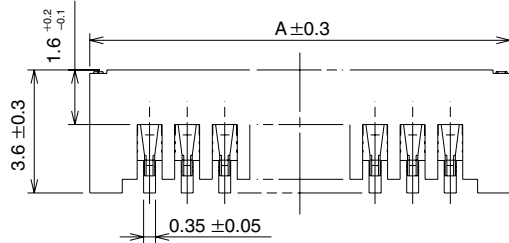
Please use this information to ascertain the product specifications from the product No.

When ordering, please select from the product No. on Pages 3 and 4 of this catalogue.

DF 26 # 1.2 - * CP - 1.1 V (**)
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

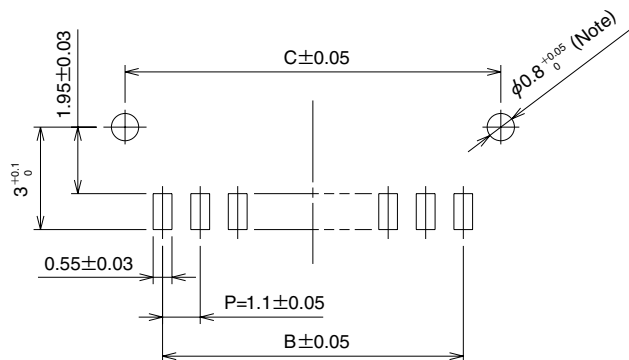
① Series name: DF	④ Mating height 1.2: 1.2mm 1.7: 1.7mm	⑦ Contact pitch: 1.1mm
② Series No.: 26	⑤ Number of contacts: 9, 16, 18	⑧ Contact type V: Straight SMT
③ Boss type A: With boss C: Without boss	⑥ Connector type CP: Single row compression	⑨ Packaging type (51): Embossed tape packaging (2,000 pieces per reel)

■ Compression Connectors (Straight SMT) for 1.2mm Mating

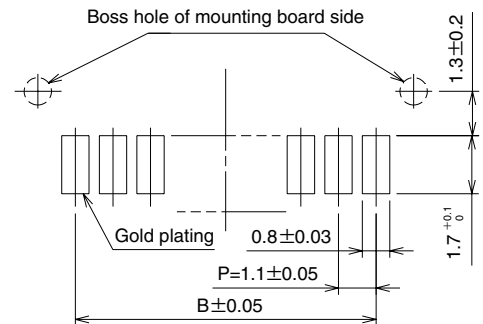


◆ Recommended PCB Footprints

Connector Mounting Surface Side



Connector Contact Side



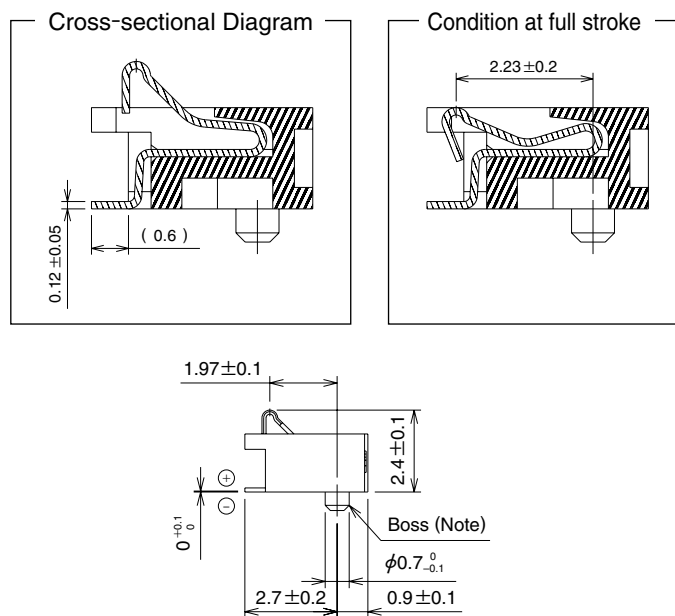
Note: Product without boss does not require this hole.

[Specification number] — **, (**)
(51): Gold plating, embossed tape packaging (2,000 pieces per reel)

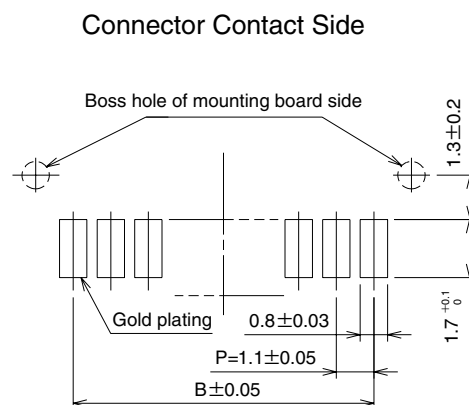
Unit: mm

Product No.	HRS No.	Number of Contacts.	A	B	C	Embossed width	Notes
DF26A1.2- 9CP-1.1V(**)	CL661-0002-5-**-	9	12.3	8.8	11.0	24	With boss
DF26A1.2-16CP-1.1V(**)	CL661-0003-8-**-	16	20.0	16.5	18.7	32	
DF26A1.2-18CP-1.1V(**)	CL661-0005-3-**-	18	22.2	18.7	20.9	32	
DF26C1.2- 9CP-1.1V(**)	CL661-0004-0-**-	9	12.3	8.8	—	24	Without boss
DF26C1.2-16CP-1.1V(**)	CL661-0006-6-**-	16	20.0	16.5	—	32	
DF26C1.2-18CP-1.1V(**)	CL661-0007-9-**-	18	22.2	18.7	—	32	

Note: Please order embossed tape packaging items by the reel.



Recommended PCB Footprints

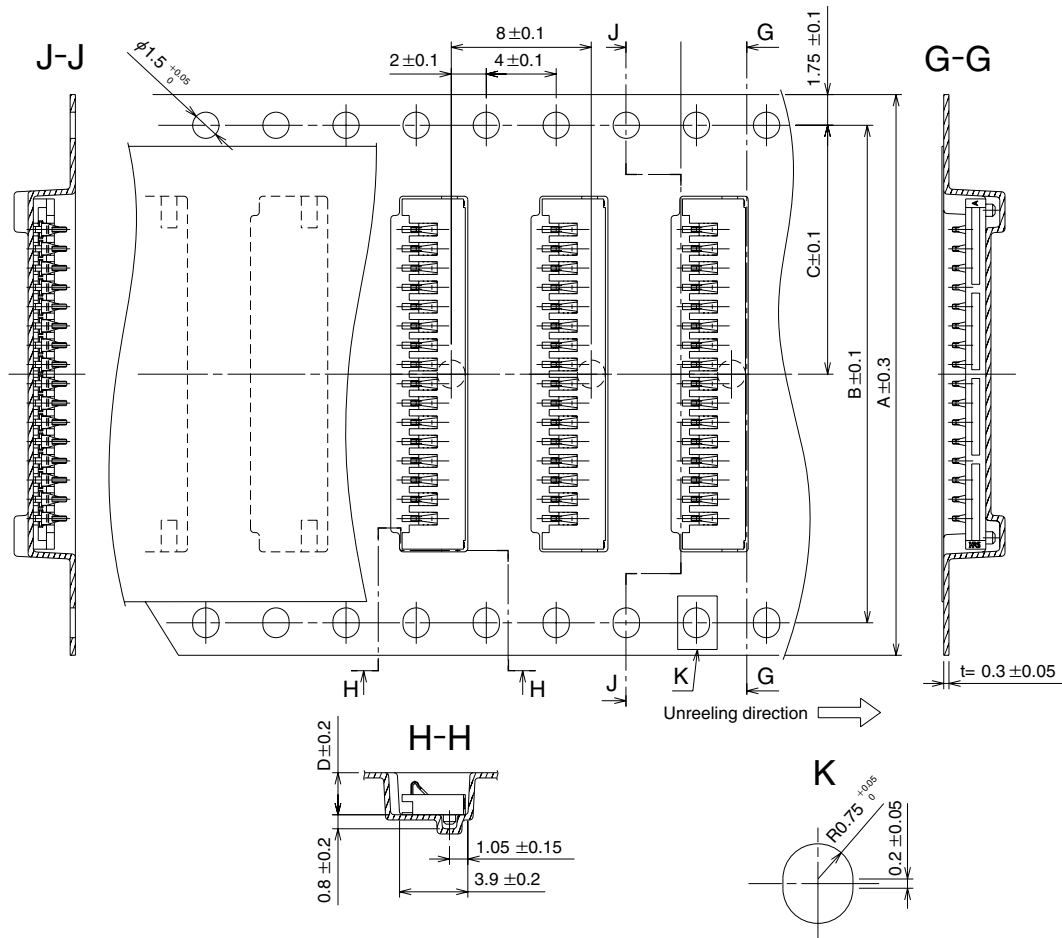


[Specification number] — **, (**)
(51): Gold plating, embossed tape packaging (2,000 pieces per reel)

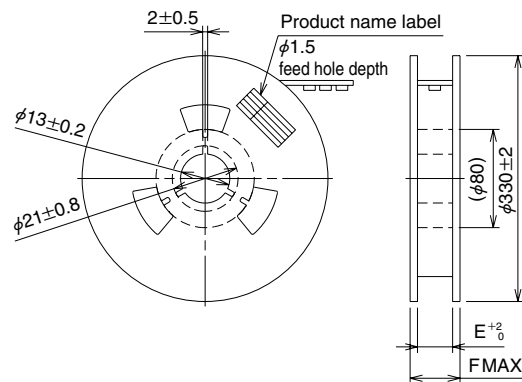
Product No.	HRS No.	Number of Contacts	A	B	C	Embossed width	Notes
DF26A1.7- 9CP-1.1V(**)	CL661-0008-1-**-	9	12.3	8.8	11.0	24	With boss
DF26C1.7- 9CP-1.1V(**)	CL661-0009-4-**-	9	12.3	8.8	—	24	Without boss

4 HRS

◆ Embossed Carrier Tape Dimensions



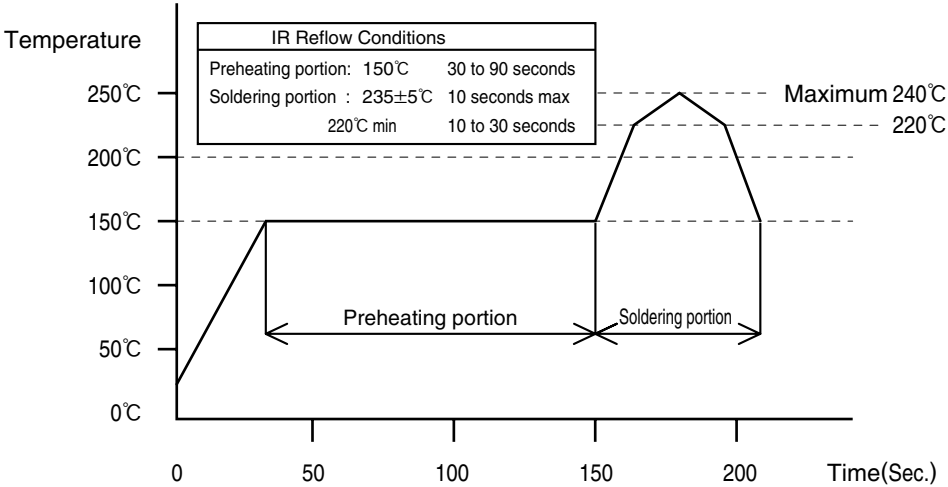
Reel Dimension



Unit: mm

Product No.	Number of Contacts	A	B	C	D	E	F	Notes
DF26A1.2- 9CP-1.1V	9	24	—	11.5	2.4	24.4	30.4	With boss
DF26A1.2-16CP-1.1V	16	32	28.4	14.2	2.4	32.4	38.4	
DF26A1.2-18CP-1.1V	18	32	28.4	14.2	2.4	32.4	38.4	
DF26C1.2- 9CP-1.1V	9	24	—	11.5	2.4	24.4	30.4	Without boss
DF26C1.2-16CP-1.1V	16	32	28.4	14.2	2.4	32.4	38.4	
DF26C1.2-18CP-1.1V	18	32	28.4	14.2	2.4	32.4	38.4	
DF26A1.7- 9CP-1.1V	9	24	—	11.5	2.9	24.4	30.4	With boss
DF26C1.7- 9CP-1.1V	9	24	—	11.5	2.9	24.4	30.4	Without boss

◆ Precautions for Use

1. Recommended Temperature Profile	 <p>Note 1: Up to 2 cycles permitted under same conditions; however, product must return to room temperature between the first and second cycles.</p> <p>Note 2: The temperature refers to the board surface temperature of the connector lead portion.</p>
2. Recommended soldering conditions	Soldering iron temperature of $290 \pm 10^\circ\text{C}$ and soldering time held within 3 seconds.
3. Recommended screen thickness	0.15mm
4. Board warping	Maximum of 0.03mm at the center of the connector with respect to both ends of the connector.
5. Washing conditions	See the Nylon Connector Handbook.
6. Precautionary items	<p>■ Please Note that excessive twisting upon insertion or removal will cause damage.</p> <p>■ The contacts are of an exposed design and touching them with bare hands may cause breakdown of the elements due to contact faults or static electricity.</p>

[illegible]

MEMO :



HIROSE ELECTRIC CO.,LTD.

5-23,OSAKI 5-CHOME,SHINAGAWA-KU,TOKYO 141-8587,JAPAN

PHONE:81-3-3491-9741

FAX :81-3-3493-2933