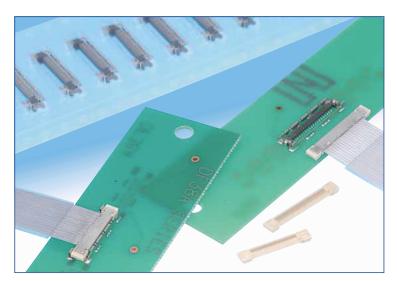
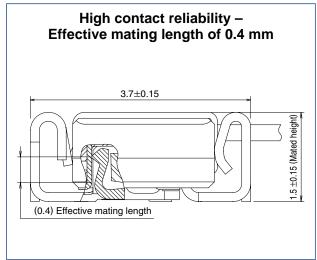
0.3 mm Pitch, 1.5 mm Mated Height, Board- to-Fine Coaxial Cable Connectors

DF38 Series





■Features

1. Small mated height and board occupied space

Small pitch (0.3mm) and mated height (1.5mm) allows use in space-restricted areas.

Plug's height of 1.3mm and width of 2.38mm allow its passage through narrow openings in small-diameter hinge applications.

2. 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.

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

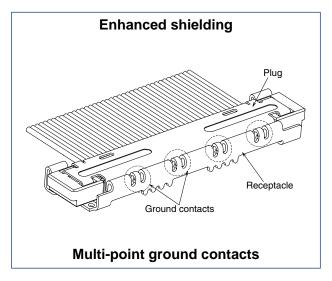
Formed metal shells on the top and side surfaces form a strong and rigid assembly.

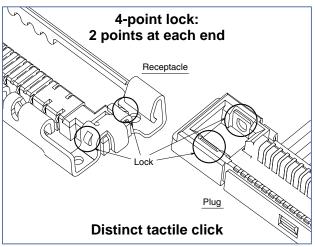
7. RoHS compliant

All components and materials comply with the requirements of EU Directive 2002/95/EC.

■Applications

Mobile phones, digital cameras, digital camcorders and other thin portable devices requiring high-speed reliable connection with a fine coaxial cable.





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■Specifications

Ratings	Current rating (Note 1)	Wire size	AVV(i #44: ().1() A	Operating temperature range Operating humidity range Storage temperature range	-35 to +85°C (Note 2) RH 20% to 80% -10 to +60°C (Note 3)
	Voltage rating		30 V AC	Storage humidity range	RH 40% to 70% (Note 3)

Item	Specification	Conditions
1.Insulation resistance	50MΩ min	100V DC
2.Withstanding voltage	No flashover or insulation breakdown	100 V AC / 1 minute
3.Contact resistance	Signal: 80mΩ max., Ground: 80mΩ max.	100mA (DC or 1,000Hz)
4.Vibration	No electrical discontinuity of 1 μ s or longer	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 3 axis, 2 hours
5.Humidity	Contact resistance (change from initial value) 50 m Ω max. Insulation resistance: 25 M Ω min.	96 hours at of 40 \pm 2°C, and humidity of 90 to 95%
6.Temperature cycle	Contact resistance (change from initial value) 50 m Ω max. Insulation resistance: 50 M Ω min.	-55° C → 5 to 35°C → 85°C → 5 to 35°C Time: 30 min. → 2 to 3 min. → 30 min. → 2 to 3 min. 5 cycles
7.Durability	Contact resistance (change from initial value) 50 m Ω max.	30 cycles
8.Resistance to soldering heat	No deformation of affecting performance	Reflow: At the recommended temperature profile Manual soldering: 350°C for 3 seconds

- Note 1: The rated current will differ depending on the wire size used.
- Note 2: Includes temperature rise caused by current flow.
- Note 3: 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.

■Material

Product	Part	Material	Finish	Remarks
	Insulator LCP		Color: Black	UL94-V0
Receptacle	Contacts	Dhaadhau busasa	Gold plated	
neceptacie	Metal cover	Phosphor bronze	Tin plated	
	Pick-and-place platform	Polyamide	Color: Black	UL94-HB
	Insulator	LCP	Color: Natural (Beige)	UL94-V0
Plug	Contacts	Dhaadhau busas	Gold plated	
	Metal cover	Phosphor bronze	Tin plated	

■Ordering information

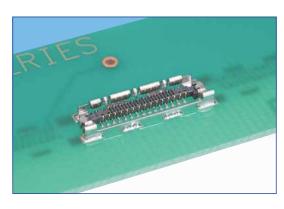
Reel Dimensions

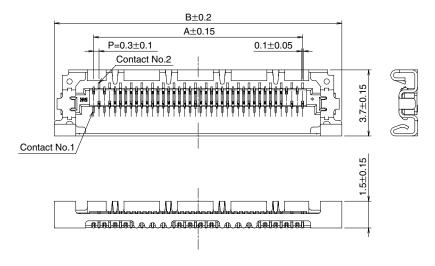
$$\frac{\mathsf{DF38}}{\mathsf{0}} \; \frac{\mathsf{A}}{\mathsf{2}} \; - \; \frac{\mathsf{*}}{\mathsf{6}} \; \frac{\mathsf{S}}{\mathsf{4}} \; - \; \frac{\mathsf{0.3}}{\mathsf{6}} \; \frac{\mathsf{V}}{\mathsf{6}}$$

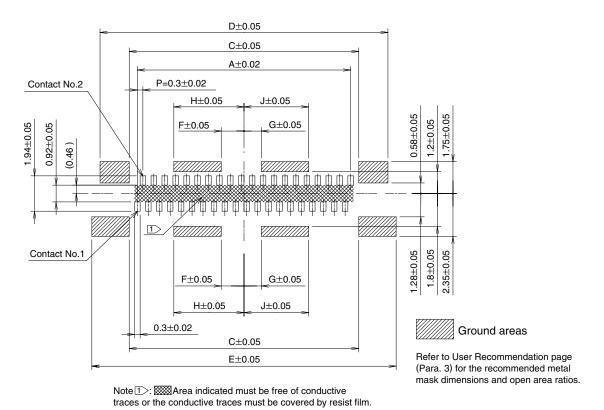
$$\frac{DF38}{0} - \frac{*}{6} \frac{P}{6} - \frac{SHL}{0}$$

0	Series name : DF38	es name : DF38	
2	Insulator typestyle	S: Single-row receptacle	V : Straight SMT
	Receptacle A : Standard	P: Single-row plug	SD : Fine coaxial cable plug
	Plug Blank : Standard	6 Contact pitch: 0.3mm	Installation item (separate)
3	Number of contacts: 30, 40		SHL : Metal cover

■Receptacles







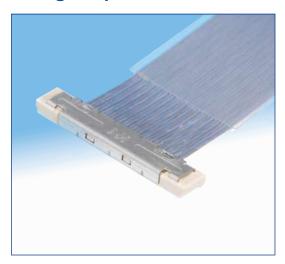
[Specifications number] - * *, (* *) (51): Gold plated, Embossed tape packaging (5,000 pieces per reel)

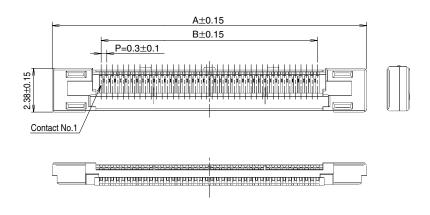
All dimensions: mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	J	RoHS
DF38A-30S-0.3V(**)	662-4505-4-**	30	8.7	13.1	9.6	12.8	13.7	0.95	1.25	2.95	3.25	YES
DF38A-40S-0.3V(**)	662-4501-3-**	40	11.7	16.1	12.6	15.8	16.7	1.25	0.95	3.85	3.55	123

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

■Plug - separate metal cover required





All dimensions: mm

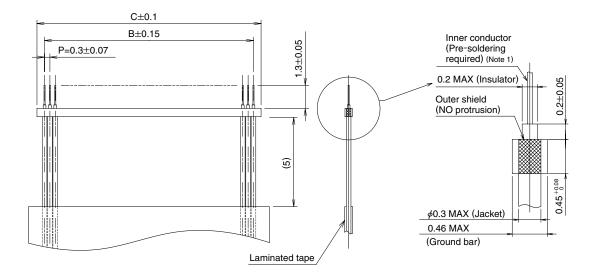
Part Number	CL No.	Number of Contacts	Α	В	С	RoHS
DF38-30P-0.3SD	662-4506-7-**	30	14	8.7	9.55	YES
DF38-40P-0.3SD	662-4502-6-**	40	17	11.7	12.55	TES

Note 1: Tray packaging (100 pieces/tray).

Order by quantity of trays.

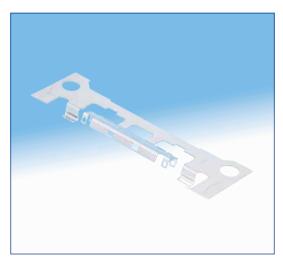
Note 2: The metal cover is required for fine coaxial cable termination.

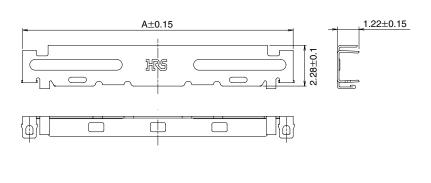
● Recommended Fine Coaxial Cable Preparation



Note 1: Contact Hirose for Termination Procedures.

■Metal cover - Required for assembly of the Plug





All dimensions: mm

Part Number	Part Number CL No.		Α	RoHS
DF38-30P-SHL	662-4507-0	30	12.15	YES
DF38-40P-SHL	662-4503-9	40	15.15	TLS

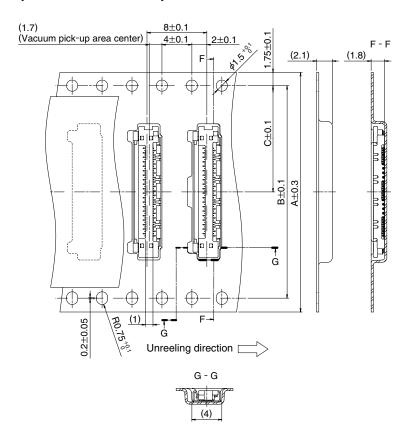
Note 1: Tape and reel packaging (10,000 pieces/reel).

Order by number of reels.

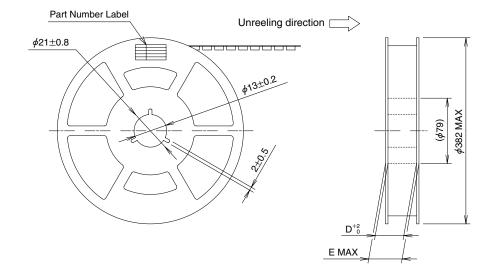
All non-Roll Browse president is from the characteristic contact your Hirose sales representative.

● Packaging Specification

©Embossed Carrier Tape Dimensions - Receptacle



●Reel Dimensions

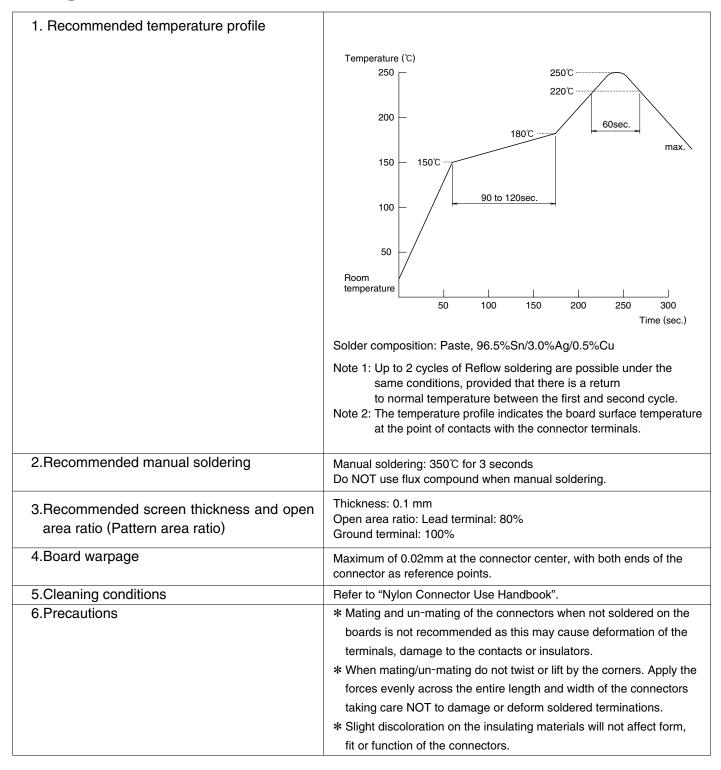


All dimensions: mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	E
DF38A-30S-0.3V(51)	662-4505-4-51	30	32	28.4	14.2	32.4	38.4
DF38A-40S-0.3V(51)	662-4501-3-51	40	32	28.4	14.2	32.4	38.4

Tape and reel packaging (5,000 pieces/reel).

●Usage Recommendations



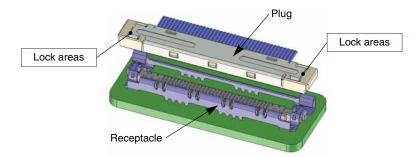
All non-Roll products be discontinuated religions, by the discontinuated religions, his bar droducts in the control of the con



Precautions

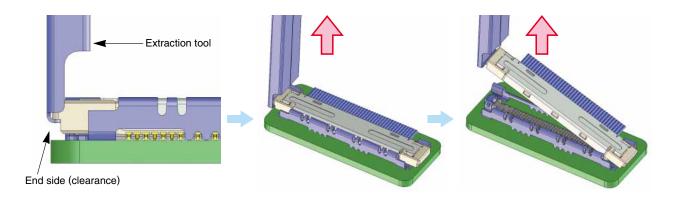
■Mating

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.



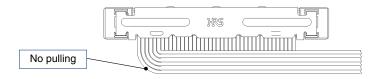
■Un-mating

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.



■Routing of the fine coaxial cable after termination

Allow sufficient clearance between the plug and the fine coaxial cable to avoid sharp bend, excessive twist or pull forces applied to the connector.



■Other

- \cdot Do NOT mate / un-mate the connectors when receptacle is not mounted on the board.
- · Different production lots may exhibit different shades of the insulator materials. No affect on form, fit or function of the connectors.
- · Rework of the soldered terminations on the board-mounted receptacles is not possible.
- \cdot Sides of the metal cover protrude over the termination areas.
- \cdot Do not mate / un-mate the connectors when receptacle is not mounted on the board.



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