■Product Specifications

Ratings	Current rating			Operating temperature range	-35°C to 85°C (Note 1)
		Wire size AWG #40: 0.3	AWG #40: 0.3 A	Operating humidity range	20% to 80%
			71110 1100. 0.0 71	Storage temperature range	-10°C to 60°C (Note 2)
	Voltage rating	Voltage rating 50 V A		Storage humidity range	40% to 70% (Note 2)

Item	Specifications	Condition		
1. Insulation resistance 500M ohms min.		Measured at 100 V DC		
Withstanding voltage No flashover or insulation breakdown		Conduction of 150 V AC applied for 1 minute		
3. Contact resistance	100m ohms max.	Measured at 100 mA		
4. Vibration	No electrical discontinuity of $1\mu s$ or more.	Frequency of 10 to 55 Hz, single amplitude of 0.75 mm, in 3 directions, 2 hours		
5. Humidity	Contact resistance of 100m ohms max., insulation resistance of 50 M ohms min.	Temperature of 40±2°C, humidity of 90% to 95%, left standing for 96 hours		
6. Temperature cycle	Contact resistance of 100m ohms max., insulation resistance of 50 M ohms min.	(-55°C : 30minutes →5 to 35°C : 2 to 3minutes →85°C : 30minutes →5 to 35°C: 2 to 3minutes) for 5 cycles		
7. Durability	Contact resistance of 100m ohms max.	30 cycles (mating/unmating)		
8. Resistance to Reflow heat	No melting of the resin parts that will affect performance	Reflow: at the recommended temperature profile, Solder: at a soldering iron temperature of 300°C for 3 seconds		
Resistance to Soldering heat	No deformation of the insulator parts affecting performance.	Solder bond: Within 5 seconds at 270°C max., Within 30 seconds at 200°C min. Hand soldering: Soldering iron temperature 300°C, 3 seconds		

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non- conducting condition of installed connectors in storage, shipment or during transportation.

Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

■Materials

Item	Part	Material	Finish	Remarks	
	Insulator	LCP	Black	UL94V-0	
Receptacles	Contacts Phosphor bronze		Gold plating		
	Metal fittings	Phosphor bronze Tin copper plating			
	Insulator	LCP	Black	UL94V-0	
Plugs	Contacts	Phosphor bronze	Gold plating		
	Metal shell	Phosphor bronze	Tin plating		
Metal shell	Metal shell	Stainless steel	Tin copper plating		

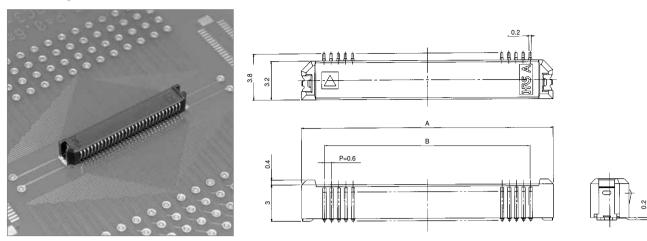
■Ordering information

Receptacles/Plug

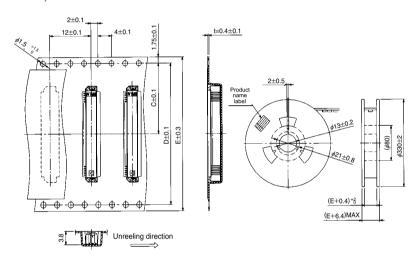
Series name : DF21	Termination section			
Number of contacts : 20, 30	V : Straight SMT			
Connector type	SD : Fine coaxial cable			
S : Single-row receptacle	Plug mounting parts			
P : Single-row plug	GND : Metal shell-required			
4 Contact pitch : 0.6 mm				

Note: The metal shell is an absolutely necessary part at the time of wiring.

■Receptacles



Embossed Carrier Tape Dimensions



[Specifications number] - * *, (* *)

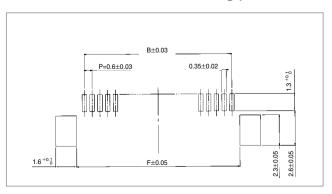
(56): Embossed tape packaging (1,000 pieces per reel)

Unit: mm

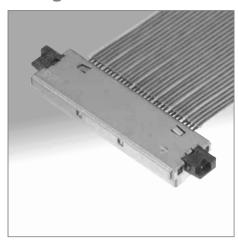
Product No.		CL No.	Number of Contacts	Α	В	С	D	Е	F	RoHS
DF21-20S-0.6V	56)	687-0001-5-56	20	15.2	11.4	11.5		24	12.6	YES
DF21-30S-0.6V	56)	687-0003-0-56	30	21.2	17.4	14.2	28.4	32	18.6	IES

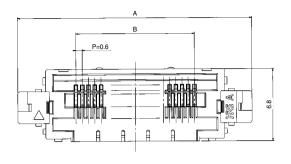
Note: One reel contains 1,000 pieces package unit. Please order by the package unit.

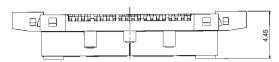
Recommended PCB mounting pattern



■Plugs









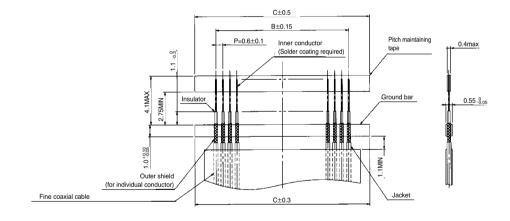
Unit: mm

Product No.	CL No.	Number of Contacts	Α	В	С	RoHS
DF21-20P-0.6SD(05)	687-1500-0-05	20	22.5	11.4	15	YES
DF21-30P-0.6SD(05)	687-1502-6-05	30	28.5	17.4	21	123

Note 1: One package unit contains 100 pieces. Please order by the package unit.

Note 2: The metal shell is an absolutely necessary part at the time of wiring.

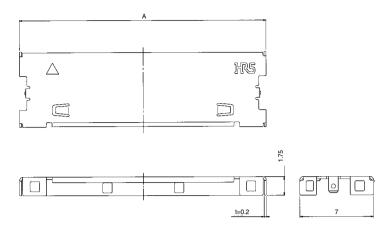
Recommended Fine Coaxial Cable Preparation



- Note 1: The pitch maintaining tape can be left in place during the termination process. Use high quality tape.
- Note 2: When using 2-conductor coaxial cable, some contact positions will not be usable. Contact nearest Hirose sales office for recommendation on specific application.
- Note 3: Contact Hirose for Termination Procedures.

■Metal shell-Required for assembly of the Plug



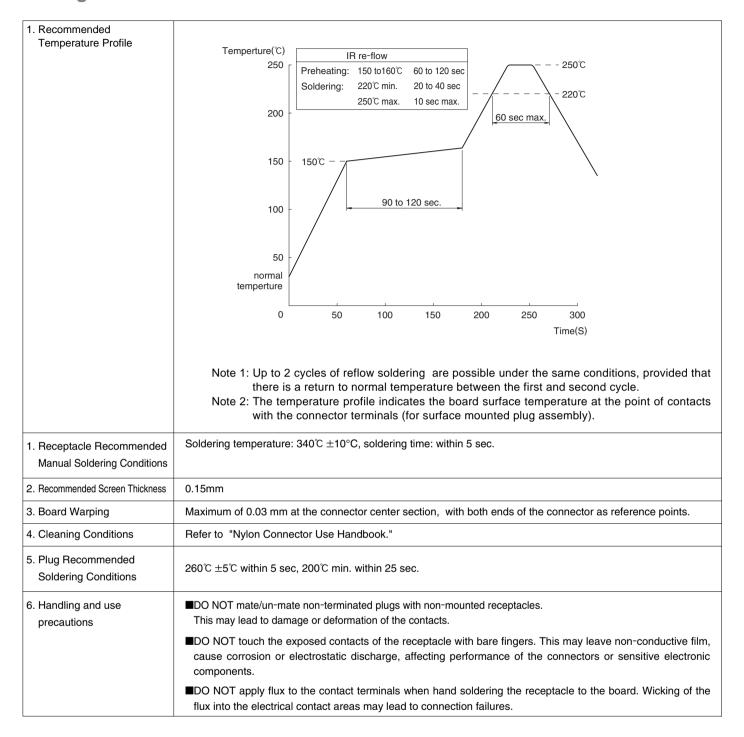


Unit: mm

Product No.	CL No.	Number of Contacts	А	RoHS	
DF21-20P-0.6SD-GND(05)	687-2500-6-05	20	17.7	YES	
DF21-30P-0.6SD-GND(05)	687-2502-1-05	30	23.7	YES	

Note 1: One package unit contains 100 pieces. Please order by the package unit. Note 2: The metal shell is an absolutely necessary part at the time of wiring.

●Usage Recommendations



Mouser Electronics

Authorized Distributor

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Hirose Electric:

DF21-20S-0.6V(56) DF21-30S-0.6V(56) DF21-20P-0.6SD(05) DF21-30P-0.6SD(05)