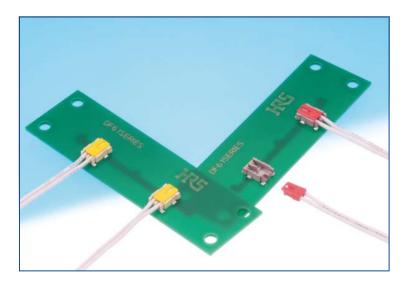
Board-to-Wire Swing-Lock Connector for Low-Profile Power Source

DF61 Series



■Features

1.Reinforced Swing Lock Structure

Our unique swing-lock structure cradles the wire side plug and resists the plug from becoming disengaged due to handling strain or loads.

2.Header Lock Improves Plug Retention

During mating, the header lock engages with the plug assembly. The lock is reinforced with metal which adds strength to the lock and increases the retention between the header and the plug.

3.Compact Size- High Voltage

The compact 2.2 mm pitch connector has a voltage rating of 350V due to the long creep distance.

4. Solder Wicking Prevention

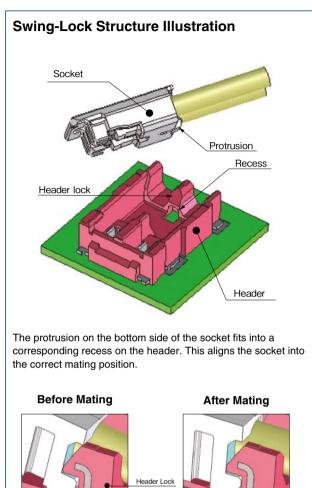
Header is molded in one piece. This ensures a tight fit between the contact and the header and prevents solder wicking.

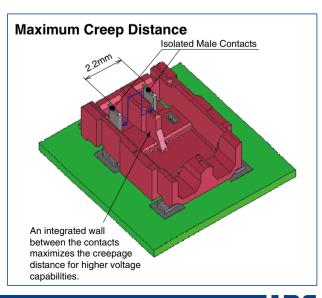
5. High Current of MAX 5 Amps (AWG22)

A highly conductive material is used for the contacts. The material provides for a high current flow by reducing the contact resistance.

Applications

Digital cameras, digital video cameras, LED lights, laptop computers, tablet computers, portable devices, power supply equipment, etc.





Reinforced with Metal

The metal fitting is partly molded

in the header's housing lock.

The Header pushes down the protrusion of the socket and locks it in place.

Tensile strength of the cable:

10N or greater

■Product Specifications

Current rating 3.2A (with AWG26) 4A (with AWG24) 5A (with AWG22)	Operating Temperature Range Operating Humidity Range	-35~85℃ 20~80%	(Note 1)		
	Voltage rating	AC/DC 350V	Storage Temperature Range Storage Humidity Range	-10~60℃ 40~70%	(Note 2) (Note 2)

Items	Specifications	Conditions
1.Insulation resistance	1000MΩ or greater	Measured at DC 500V
2.Withstanding voltage	No flashover or breakdown	AC1700V applied for one minute
3.Contact resistance	10mΩ or less	Measured at 20mV or less, 1mA
4. Vibration resistance	No electric outcas of 1 up or more	Frequency 10-55Hz, half amplitude 0.75 mm, 10 cycles for
4. Vibration resistance	No electric outage of 1 μ s or more	each of 3 directions
5.Shock resistance	No electric outage of $1\mu s$ or more	Acceleration 490 m/s², 11ms; half sin wave: 3 each for 3 directions
6.Humidity resistance	Contact resistance $20m\Omega$ or less, insulation resistance $500M\Omega$ or greater	Temperature $40 \pm 2^{\circ}$ C, humidity 90-95%, left for 96 hours
7.Temperature cycle	Contact resistance $20m\Omega$ or less insulation resistance $500M\Omega$ or greater	5 cycles (-55°C: 30 minutes \rightarrow 5-35°C: 2-3 minutes \rightarrow 85°C: 30 minutes \rightarrow 5-35°C: 2-3 minutes)
8.Insertion/extraction life	Contact resistance20mΩ or less	Insertion/extraction: 30 times
9.Solder heat resistance	No melting of resin part affecting performance	Reflow: Per recommended temperature profile Hand solder: Manual soldering iron 350±10°C for 3 seconds

⁽Note 1) Includes temperature elevation by conduction.

(Note 3) The above specifications are representative for this series. Please refer to "delivery specifications" for official individual agreement.

■Materials

Product	Part	Material	Treatment	Specification
Hoodor	Insulator	LCP resin	Red	UL94V-0
Header	Contact	Brass	Tin plated	
Crimp Socket	Insulator	PBT	Red	UL94V-0
Crimp contact	Contact	Copper Alloy	Tin plated	

⁽Note 2) The term "storage" refers to the long-term storage conditions of unused connectors before PCB mounting. The operating temperature range applies to connectors in non-conduction state after PCB mounting or those in temporary storage during transportation, etc.

■Product Number Structure

See Pages 4-6 of this catalog to select and order specific items.

●Header



Series Name: DF	6 Pitch: 2.2mm	
2 Series No.: 61	6 Termination form	
3 Number of contacts: 2	V: SMT straight type	
4 Type of connector		
P: Header		

●Crimp Housing

$$\frac{\mathsf{DF}}{\bullet} \ \frac{61}{2} \ - \ \frac{*}{\bullet} \ \frac{\mathsf{S}}{\bullet} \ - \ \frac{2.2}{\bullet} \ \frac{\mathsf{C}}{\bullet}$$

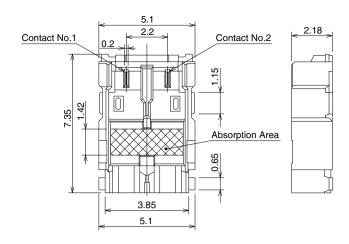
1 Series Name: DF	6 Pitch: 2.2mm		
2 Series No.: 61	6 Termination form		
3 Number of contacts: 2	C: Crimp case	C: Crimp case	
4 Type of connector			
S: Socket			

●Contact

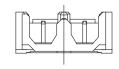
Applicable Wire Size	2 Form Type/Package Type	
2628:AWG# 26-28	SCF: Socket crimp contact/reel	
2226:AWG# 22-26		

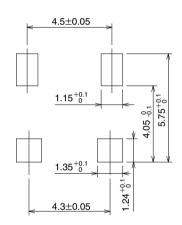
■Straight Header (SMT)





■Recommended PCB Dimensions(t=1mm)





[Specification No.]

(21):Tin plated, emboss package, mold color: red (22):Tin plated, emboss package, mold color: yellow

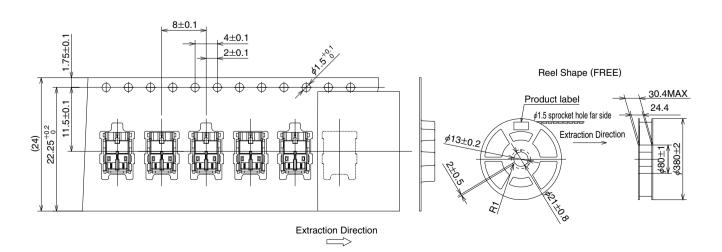
(23):Tin plated, emboss package, mold color: beige

Unit: mm

Product Number	HRS No.	No. of contacts	Color
DF61-2P-2.2V(21)	CL666-5001-1-21	2	Red
DF61-2P-2.2V(22)	CL666-5001-1-22	2	Yellow
DF61-2P-2.2V(23)	CL666-5001-1-23	2	Beige

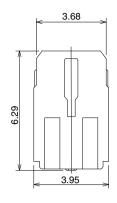
Note: For embossed package products, please order in full reel quantities. (1 reel = 3000 pcs.).

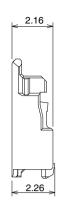
●Reel Dimensions



■Socket









[Specification No.]

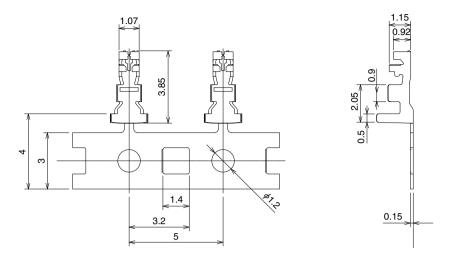
(11): 1,000 connectors per pack, mold color: red (12): 1,000 connectors per pack, mold color: yellow (13): 1,000 connectors per pack, mold color: white

Unit: mm

Product Number	HRS No.	No. of contacts	Color
DF61-2S-2.2C(11)	CL666-5002-4-11	2	Red
DF61-2S-2.2C(12)	CL666-5002-4-12	2	Yellow
DF61-2S-2.2C(13)	CL666-5002-4-13	2	White

Note: Please order by full packs (1,000 pcs./pack)

■Crimp contact



Product Number	HRS No.	Туре	Quantity	Treatment
DF61-2628SCF	CL666-5005-2-00	Reel contact	18,000 contacts per reel	Tin plated
DF61-2226SCF (41)	CL666-5004-0-41	Reel contact	18,000 contacts per reel	Tin plated

(Note1) Please order in full reel quantities. (1 reel = 18,000 pcs.).

Applicable Wire (Tin plated soft copper wire)

Conductor Size	Coating Diameter	
AWG# 26-28	φ 0.7mm - 1.1mm	
AWG# 22-26	φ 1.0mm - 1.3mm	

Note: Please consult with our a Hirose sales representative when using wires other than those recommended below.

●Applicable wires: UL10368 AWG#22, AWG#24, AWG#26, AWG#28

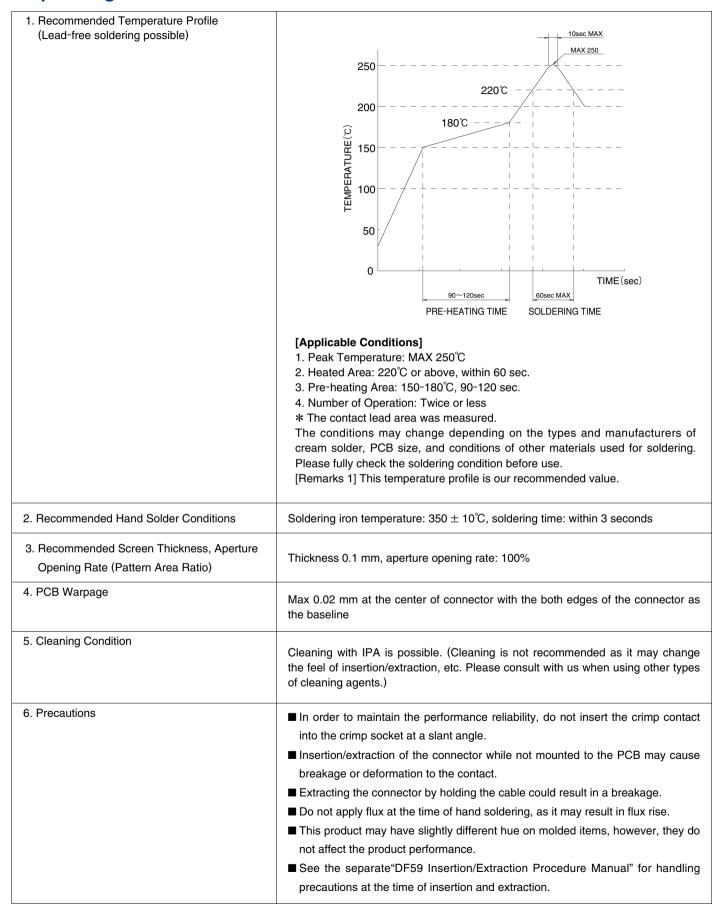
●Strip Length 1.3 - 1.7mm

■Applicable Crimping Tools

Types	Product Number	HRS No.	Applicable Contact
Applicator	AP105-DF61-2628S	CL901-4632-6-00	DF61-2628SCF
Applicator	AP105-DF61-2226S	CL901-4621-0-00	DF61-2226SCF
Press Unit	CM-105	CL901-0005-4-00	
Hand Tool	HT305/DF61-2628S	CL550-0305-5-00	DF61-2628SCF
Hand 100i	HT305/DF61-2226S	CL550-0304-2-00	DF61-2226SCF
Extraction Tool	DF-C-PO(B)	CL550-0179-2-00	DF61-2628SCF, DF61-2226SCF

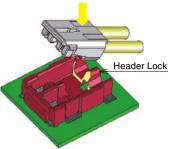
Note: Problems resulting from the use of non-authorized tools will not be warranted.

■Operating Precautions

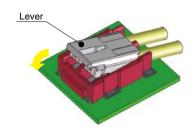


7. Mating/Un-mating **Mating Operation**

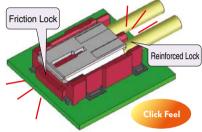
 Start by placing the connector against the header lock at an angle. If the plug is not started at an angle, it will cause damage to the connector.



(2) Then, in a slight, rotating movement, push the front section of the plug down.

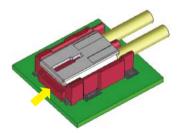


(3) Keep pressing down until a "click" feeling is sensed. The connector is now fully and properly mated.

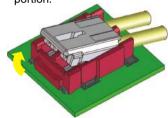


Un-mating Operation

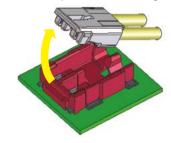
(1) Begin by lifting up on the front section of the plug.



(2) Continue to rotate it upwards and release the friction lock portion.



(3) Once the rear, or reinforced lock, is released the plug will come free from the header and complete the un-mating sequence.





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http://www.hirose.com

http://www.hirose-connectors.com

ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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