

DF63 Series

15A 3.96mm pitch Wire-to-Board Connectors for Internal Power Supply (UL, C-UL and TÜV Listed)





Features

1. Rated for up to 15A

DF63 has the capacity to handle a Max. of 15A when using 16 AWG wire.

(Please refer to the chart for the rated current in other pin counts.)

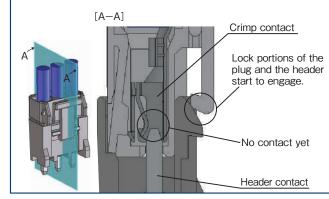
*Supports 7.92mm pitch

Also supports 7.92mm pitch with 2 or 3 pos. without pins.

The product will be available upon request. Please contact Hirose representative.

2. Secure mating and clear tactile click

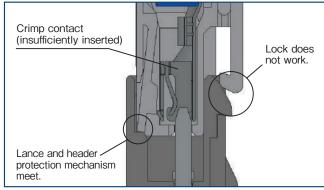
The locking mechanism delivers a clear and tactile click, which prevents incomplete mating and reduces burden on workers for improved work efficiency.



Lock structure

3. Prevents incomplete insertion of the crimp contact

A structure to prevent incomplete insertion of the crimp contacts is provided.



Prevention of insufficient insertion of the crimp contact

4. Prevents incorrect mating

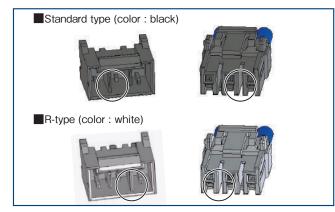
A mechanism has been added to prevent reverse mating and incorrect mating between different number of positions.

*Keying options were provided to prevent incorrect connections.

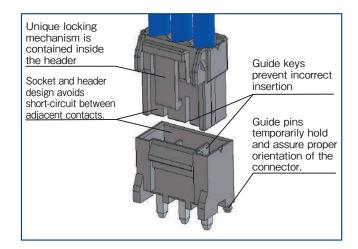
Keying options prevent incorrect connections due to the use of multiple connectors on the same board. When using identical pin counts, two versions are available with different keying options. The product will be available upon request. Please contact Hirose representative.

Reverse mounting prevention to PCB

The pin header is equipped with a guide post to prevent reverse insertion on the PCB.



Keying options are available to prevent incorrect connections due to the use of multiple connectors on the same board.



6. Short-circuit prevention

The wall structure between the contacts helps to isolate the contacts and prevents short circuits between contacts.

7. Molded lance design

The lance is actually part of the housing instead of being a part of the terminal. This prevents tangled wires during assembly.

8. Suitable for potting

Capable of being potted, up to 5mm.

9. Solder crack prevention

Glass-reinforced resin is used on the pin header to prevent solder cracks due to thermal contraction.



Product Specifications

	No of Pos.	16 AWG	18 AWG	20 AWG	22 AWG	Operating Temperature (Note 2)	-55 to +105℃
	1	15A	13A	11A	9A	Storage Temperature Range (Note 3)	-10 to +60℃
	2	14A	12A	10A	8A	Operating Humidity Range (Note 4)	20 to 80%
	3	12A	10A	8A	7A	Storage Humidity Range (Note 3)	40 to 70%
	4	10A	8A	7A	6A		
Rated Current	5	10A	8A	7A	6A		
	6	10A	8A	7A	6A		
	2 (7.92mm Pitch)	15A	13A	11A	9A		
	3 (7.92mm Pitch)	12A	11A	9A	8A		
Rated Voltage	630V AC/DC						

	UL	600V AC/DC	
Voltage Rating	C-UL	600V AC/DC	
	TÜV	300V AC/DC	

UL/TÜV File No. and Recognition No. UL : E52653 C-UL : E52653 TÜV : R50318850

Item	Specifications	Conditions
Insulation Resistance	No less than 1,000M Ω	Measured at 500V DC
Withstand Voltage	No flashover or breakdown	1,500V AC is applied for 1 min.
Contact Resistance	No more than $10m\Omega$	Measured at 1mA and no higher than 20mV
Vibration Resistance	No electrical discontinuity of 1 μ s or greater	Frequency 10 to 55 Hz, half amplitude 0.75 mm, 10 times in each of the 3 directions
Shock Resistance	No electrical discontinuity of 1 μ s or greater	Accelerated velocity: 490 m/s² for 11ms, half-sine wave in 3 directions, 3 times for each direction
Moisture- resistance	Contact resistance : no more than $20m\Omega$ Insulation resistance : no less than $500M\Omega$	Temperature : $40 \pm 2 \mbox{\ensuremath{$^\circ$}}\$
Temperature Cycles	Contact resistance : no more than $20m\Omega$ Insulation resistance : no less than 1,000M Ω	-55°C : 30 minutes → +85°C : 30 minutes 5 cycles
Mating Durability	Contact resistance : no more than $20m\Omega$	Tin Plated : 30 mating cycles Gold Plated : 50 mating cycles
Solder Heat Resistance	The resin parts should withstand the temperature and resist melting.	Straight Header Flow: 260°C, 5 sec Hand soldering: temperature of soldering iron at 290°C for 3 seconds Right Angle Header Flow: 260°C, 10 sec
		Hand soldering : temperature of soldering iron at 300°C for 3 seconds

Note 1: This is the maximum current rating while all pins are powered or used as all power lines.

Note 2 : Includes temperature rise caused by current flow.

Note 3 : Applicable to unused product packaging.

Note 4: Use without condensation on parts.

Note 5: 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 / Finish

Component	Part	Material	Finish	UL Specification
Header	Insulator	PBT (glass-reinforced)	Black or White	UL94V-0
пеацеі	Contact	Brass	Tin plated or Gold plated	-
Crimp socket	Insulator PBT (glass-reinforced)		Black or White	UL94V-0
In-line plug	IIISUIALUI	PBT (glass-reimorceu)	black of writte	0L94V-0
Crimp contact	Contact	Copper alloy	Tin plated or Gold 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

DF63 # - # P - 3.96 DSA

Crimp contact

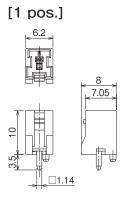
DF63 # - 1618 SCF 2 7 8

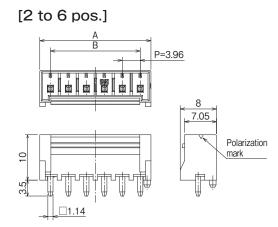
1 Series name	DF63	6	Contact Pitch	3.96mm 7.92mm
2 Form Type	Header Blank or M: Black R: Guide post/Guide Key Type, White Sockets Blank: Black R: Guide Key Type, White In-line Plugs Blank: Panel Lock Type A: Without Panel Lock Socket contacts A: Standard In-Line plug contacts Blank: Standard	6	Type of housing	DSA: Straight header DS: Right angle header C: Crimp housing
Number of Contacts	1,2,3,4,5,6	0	Applicable Conductor	1618 : 16-18 AWG 2022 : 20-22 AWG
4 Connector type	P: Pin Header S: Crimp socket EP: In-line plug	8	Packaging	SCF: Socket contacts/Reel/Tin plated SCFA: Socket contacts/Reel/Gold plated SC: Socket contacts/Pack/Tin plated SCA: Socket contacts/Pack/Gold plated PCF: In-line plug contacts/Reel/Tin plated PCFA: In-line plug contacts/Reel/Gold plated PC: In-line plug contacts/Pack/Tin plated PCA: In-line plug contacts/Pack/Gold plated



Straight Header



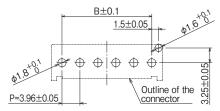




^{*}Diagram of standard type.

Recommended PCB Layout (Board thickness: 1.6±0.1)

[1 to 6 pos.]



Standard Type (Guide post : Left Side, Color : Black)

Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	Purchase Unit
DF63M-1P-3.96DSA(##)	CL0680-0566-0-##	1	6.20	-	
DF63M-2P-3.96DSA(##)	CL0680-0567-0-##	2	8.66	3.96	
DF63M-3P-3.96DSA(##)	CL0680-0568-0-##	3	12.62	7.92	100
DF63M-4P-3.96DSA(##)	CL0680-0569-0-##	4	16.58	11.88	100pcs per bag
DF63-5P-3.96DSA(##)	CL0680-0506-7-##	5	20.54	15.84	1
DF63-6P-3.96DSA(##)	CL0680-0507-0-##	6	24.50	19.80	

R Type (Guide post: Right Side, Guide key, Color: White)

Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	Purchase Unit
DF63R-5P-3.96DSA(##)	CL0680-0520-8-##	5	20.54	15.84	100pcs per bag

7.92mm pitch

Unit: mm

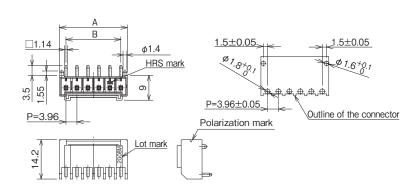
Part No.	HRS No.	No. of Pos.	А	В	Purchase Unit	
DF63M-2P-7.92DSA(##)	CL0680-0581-0-##	2	12.62	7.92	100pcs per bag	
DF63-3P-7.92DSA(##)	CL0680-0537-0-##	3	20.54	15.84		

[Specification number(##), -##] None : Tin plated, (01) : Gold plated

Note: Please contact Hirose representative if you have request for (01) specification.

Right Angle Header





Standard Type (Color: Black)

Unit : mm

Part No.	HRS No.	No. of Pos.	А	В	Purchase Unit
DF63M-1P-3.96DS(##)	CL0680-0570-0-##	1	6.20	-	
DF63M-2P-3.96DS(##)	CL0680-0571-0-##	2	8.66	3.96	
DF63M-3P-3.96DS(##)	CL0680-0572-0-##	3	12.62	7.92	100noo nor hog
DF63-4P-3.96DS(##)	CL0680-0545-0-##	4	16.58	11.88	100pcs per bag
DF63-5P-3.96DS(##)	CL0680-0546-0-##	5	20.54	15.84	
DF63-6P-3.96DS(##)	CL0680-0547-0-##	6	24.50	19.80	

7.92mm pitch

Unit: mm

Part No.	HRS No.	No. of Pos.	Α	В	Purchase Unit	
DF63M-2P-7.92DS(##)	CL0680-0583-0-##	2	12.62	7.92	100pcs per bag	
DF63-3P-7.92DS(##)	CL0680-0559-0-##	3	20.54	15.84		

[Specification number(##), -##] None: Tin plated, (01): Gold plated

Note: Please contact Hirose representative if you have request for (01) specification.



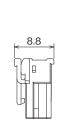
Crimp Socket

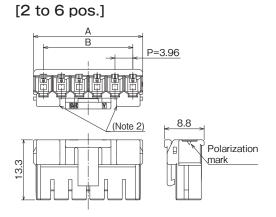


Shown with terminated and contacts installed.

6.2

[1 pos.]





Standard Type

Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	Purchase Unit
DF63-1S-3.96C(##)	CL0680-0508-2-##	1	6.20	-	
DF63-2S-3.96C(##)	CL0680-0509-5-##	2	8.36	3.96	
DF63-3S-3.96C(##)	CL0680-0502-6-##	3	12.32	7.92	100pcs per bag
DF63-4S-3.96C(##)	CL0680-0510-4-##	4	16.28	11.88	100pcs per bag
DF63-5S-3.96C(##)	CL0680-0511-7-##	5	20.24	15.84	
DF63-6S-3.96C(##)	CL0680-0512-0-##	6	24.20	19.80	1

[Specification number(##), -##] None: Black

R Type (Guide key)

Unit: mm

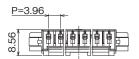
Part No.	HRS No.	No. of Pos.	А	В	Purchase Unit
DF63R-5S-3.96C(##)	CL0680-0525-1-##	5	20.24	15.84	100pcs per bag

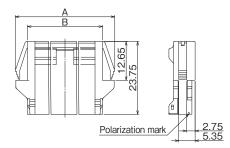
[Specification number(##), -##] None: White

In-line Plug (Panel Lock Type)



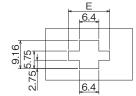
Shown with terminated and contacts installed.



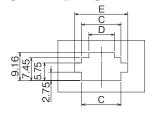


■ Recommended Panel Cutout

[1 pos.]



[2 to 6 pos.]



Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	С	D	Purchase Unit
DF63-1EP-3.96C(##)	CL0680-0551-0-##	1	14.20	6.20	-	-	
DF63-2EP-3.96C(##)	CL0680-0533-0-##	2	16.66	8.66	8.86	4.96	
DF63-3EP-3.96C(##)	CL0680-0532-7-##	3	20.62	12.62	12.82	8.32	100non nor hog
DF63-4EP-3.96C(##)	CL0680-0552-0-##	4	24.58	16.58	16.78	12.28	100pcs per bag
DF63-5EP-3.96C(##)	CL0680-0553-0-##	5	28.54	20.54	20.74	16.24	
DF63-6EP-3.96C(##)	CL0680-0554-0-##	6	32.50	24.50	24.70	20.20	

Unit: mm

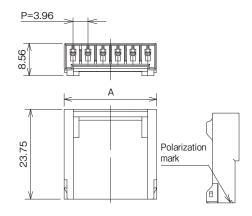
	Panel	No. of Pos.									
	thickness	1	2	3	4	5	6				
	0.5 to 0.6	10.30	12.76	16.72	20.68	24.64	28.60				
Е	0.7 to 1.1	10.80	13.26	17.22	21.18	25.14	29.10				
	1.2 to 1.7	11.30	13.76	17.72	21.68	25.64	29.60				
	2.0 to 2.3	11.80	14.26	18.22	22.18	26.14	30.10				

[Specification number(##), -##] None: Black

In-line Plug



Shown with terminated and contacts installed.



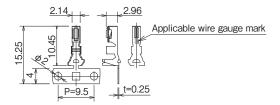
Unit: mm

Part No.	HRS No.	No. of Pos.	А	Purchase Unit
DF63A-1EP-3.96C(##)	CL0680-0555-0-##	1	6.20	
DF63A-2EP-3.96C(##)	CL0680-0535-5-##	2	8.66	
DF63A-3EP-3.96C(##)	CL0680-0534-2-##	3	12.62	100000 000 000
DF63A-4EP-3.96C(##)	CL0680-0556-0-##	4	16.58	100pcs per bag
DF63A-5EP-3.96C(##)	CL0680-0557-0-##	5	20.54	
DF63A-6EP-3.96C(##)	CL0680-0558-0-##	6	24.50	

[Specification number(##), -##] None : Black



Crimp Contact for Socket



Reel Contact (4,000pcs per reel) *Applicable tool: Applicator

			Applicable Wire (Tin Plated Annealed Copper) (Note 1)								
Part No.	HRS No.	Finish	UL	Wire Size	Stranded Wire Structure	Calculated Cross-section	Jacket Diameter	RoHS			
DF63A-1618SCF	01,0000,0570,0,00	30-0573-0-00 Tin Plated		16 AWG	26/0.254mm	1.317m²	φ 2.1 to 3.2mm				
DF03A-10103CF	DF63A-1618SCF CL0680-0573-0-00		1015	18 AWG	34/0.18mm	0.865m ²	φ2.1 to 3.2mm				
DF63A-1618SCFA	FA CL0680-0646-0-00	Gold Plated	1007	16 AWG	26/0.254mm	1.317m ²	φ 2.1 to 3.2mm				
DF03A-10103CFA	CL0080-0040-0-00	Goid Flated	1015	18 AWG	34/0.18mm	0.865m ²	Ψ 2.1 (0 3.211111				
DF63A-2022SCF	CL0680-0097-0-00	Ti- Distant	Tip Dlotod	Tin Platad	Tin Plated	1007	20 AWG	21/0.18mm	0.534m ²	φ 1.7 to 1.8mm	
DF03A-20223CF	0F63A-2022SCF		1007	22 AWG	17/0.16mm	0.342m ²	ψ 1.7 (Ο 1.6ΠΙΙΠ				
DF63A-2022SCFA	CL 0600 0647 0 00 Cold DI	CL0680-0647-0-00 Gold Plated	Gold Plated 1007	20 AWG	21/0.18mm	0.534m ²	φ 1.7 to 1.8mm				
DI 00A-202230FA	020000-0047-0-00	Goid Flated	1007	22 AWG	17/0.16mm	0.342m ²	ψ 1.7 (Ο 1.0111111				

Note 1: When using a wire other than the applicable wires please contact a Hirose representative.

Loose piece (100pcs per bag) *Applicable tool : Hand crimping tool

				Applicable Wire (Tin Plated Annealed Copper) (Note 1)																		
Part No.	HRS No.	Finish	UL	Wire Size	Stranded Wire Structure	Calculated Cross-section	Jacket Diameter	RoHS														
			1007	16 AWG	26/0.254mm	1.317m²	2.5mm															
DF63A-1618SC	CL0680-0648-0-00	Tin Plated	1007	18 AWG	34/0.18mm	0.865m ²	2.1mm															
DF03A-10103C	GL0660-0646-0-00	Till Plateu	1015	16 AWG	26/0.254mm	1.317m²	3.2mm															
			1015	18 AWG	34/0.18mm	0.865m ²	2.9mm															
																	1007	16 AWG	26/0.254mm	1.317m²	2.5mm	
DE624 16189C4	CL0680-0650-0-00	Cold Diotod	Cold Diotod	Cold Distad	Cold Plated	Cold Plated	Cold Plated	Cold Plated	Cold Plated	Gold Plated	1007	18 AWG	34/0.18mm	0.865m ²	2.1mm							
DF03A-10103CA	DF63A-1618SCA CL0680-0650-0-00		1015	16 AWG	26/0.254mm	1.317m²	3.2mm															
			1015	18 AWG	34/0.18mm	0.865m ²	2.9mm															
DF63A-2022SC	CL0680-0649-0-00	Tin Plated	1007	20 AWG	21/0.18mm	0.534m ²	1.8mm															
DF63A-20223C	CL0660-0649-0-00	Till Plateu	1007	22 AWG	17/0.16mm	0.342m ²	1.7mm															
DF63A-2022SCA	CL0680-0651-0-00	Cold Plated	1007	20 AWG	21/0.18mm	0.534m ²	1.8mm															
DF00A-202250A	GL0000-0051-0-00	Gold Plated	1007	22 AWG	17/0.16mm	0.342m ²	1.7mm															

Note 1: When crimping using a hand crimping tool only the above wires are applicable.

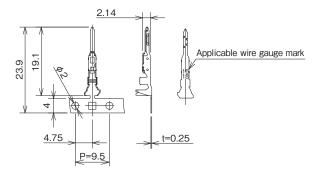
Crimp Contact extraction tool

DF-C-PO(B), Flat-bladed screwdriver, 1.2mm blade width

Strip length

2.9 to 3.6mm

Crimp Contact for In-line Plug



Reel Contact (4,000pcs per reel) *Applicable tool : Applicator

			Applicable Wire (Tin Plated Annealed Copper) (Note 1)					
Part No.	HRS No.	Finish	UL	Wire Size	Stranded Wire Structure	Calculated Cross-section	Jacket Diameter	RoHS
DE62 1619DCE	01.0680.0530.3.00	-00 Tin Plated		16 AWG	26/0.254mm	1.317m²	φ2.1 to 3.2mm	
DF63-1616PCF	DF63-1618PCF CL0680-0529-2-00		1015	18 AWG	34/0.18mm	0.865m ²	ΨΖ.Τ (Ο 3.ΖΠΙΠ	
DF63-1618PCFA	CL0680-0636-0-00	Gold Plated	1007	16 AWG	26/0.254mm	1.317m²	φ2.1 to 3.2mm	
DF03-1010PCFA	CL0660-0636-0-00	Goid Plated	1015	18 AWG	34/0.18mm	0.865m ²	ΨΖ.Τ (Ο 3.ΖΠΙΠ	0
DF63-2022PCF	CL0680-0538-3-00	Tin Plated	1007	20 AWG	21/0.18mm	0.534m ²	417 to 10mm	
DF63-2022PGF	CL0000-0556-5-00	Till Plateu	1007	22 AWG	17/0.16mm	0.342m ²	φ1.7 to 1.8mm	
DF63-2022PCFA	CL0680-0638-0-00	Gold Plated	1007	20 AWG	21/0.18mm	0.534m ²	φ1.7 to 1.8mm	
DF00-2022PGFA	GL0000-0038-0-00	Goid Plated	1007	22 AWG	17/0.16mm	0.342m ²	ψ1.7 (Ο 1.0111111	

Note 1: When using a wire other than the applicable wires please contact a Hirose representative.

Loose piece (100pcs per bag) *Applicable tool: Hand crimping tool

			Applicable Wire (Tin Plated Annealed Copper) (Note 1)																				
Part No.	HRS No.	Finish	UL	Wire Size	Stranded Wire Structure	Calculated Cross-section	Jacket Diameter	RoHS															
			1007	16 AWG	26/0.254mm	1.317m²	2.5mm																
DF63-1618PC	CL0680-0536-8-00	Tin Plated	1007	18 AWG	34/0.18mm	0.865m ²	2.1mm																
DF03-1010FC	CL0080-0330-8-00	Till Flateu	1015	16 AWG	26/0.254mm	1.317m²	3.2mm																
			1015	18 AWG	34/0.18mm	0.865m ²	2.9mm																
														1007	16 AWG	26/0.254mm	1.317m²	2.5mm					
DF63-1618PCA	CL0680-0637-0-00	Gold Plated	1007	18 AWG	34/0.18mm	0.865m ²	2.1mm	0															
DF03-1010PCA	CL0660-0637-0-00	Gold Plated		1015	16 AWG	26/0.254mm	1.317m²	3.2mm															
																				1015	18 AWG	34/0.18mm	0.865m ²
DE62 0000D0		Tip Dieted	1007	20 AWG	21/0.18mm	0.534m²	1.8mm																
DF63-2022PC CL0680-0539-6-00	Tin Plated	i in Plated	TIN Plated	rin Plated	Tin Plated	TIII Plated	iiii Piated	Till Plated	iiii Plated	iiii Plated	rin Plated	1007	22 AWG	17/0.16mm	0.342m ²	1.7mm							
DE63 2022DCA	DE00 0000D04	9-0-00 Gold Plated	1007	20 AWG	21/0.18mm	0.534m ²	1.8mm																
DF63-2022PCA CL0680-0639-0-0	010000-0039-0-00		Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	1007	22 AWG	17/0.16mm	0.342m ²	1.7mm											

Note 1: When crimping using a hand crimping tool only the above wires are applicable.

Crimp Contact extraction tool

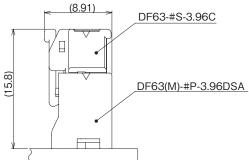
DF-C-PO(B), Flat-bladed screwdriver, 1.2mm blade width

Strip length

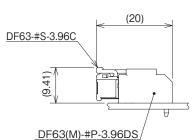
2.9 to 3.6mm

Mated Dimensions

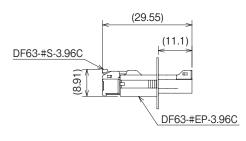
Board-to-Wire Connection using the straight pin header



Socket to Right Angle Header Connection



Socket to In-line Plug Connection





Applicable Crimping Tool

Туре	Part No.	HRS No.	Wire Type	Applicable Contacts	
	AP105-DF63-1618S-1	CL0901-4634-1-00	UL1007 (Note 3)		
	AP105-DF63-1618S-2	CL0901-4635-4-00	UL1015 (Note 3)	DF63A-1618SCF DF63A-1618SCFA	
	CHS893400H-UP (Note 8)	_	UL1015		
	AP105-DF63-1618-3	CL0901-4642-0-00	UL1007 (Note 3)	DF63-1618PCF	
Applicator	AP105-DF63-1618-4	CL0901-4643-2-00	UL1015 (Note 3)	DF63-1618PCFA	
Applicator	CHS893500H-UP (Note 8)	_	UL1015	DF63W-1618SCF	
	AP105-DF63-2022-1	CL0901-4617-0-00	UL1007	DF63A-2022SCF DF63A-2022SCFA	
	AP105-DF63-2022-3	CL0901-4646-0-00	UL1007	DF63-2022PCF DF63-2022PCFA DF63W-2022SCF	
	HT802/DF63-1618S-1	CL0550-0411-2-00	UL1007 (Note 4, 5)	DF63A-1618SC	
	HT802/DF63-1618S-2	CL0550-0413-8-00	UL1015 (Note 4, 6)	DF63A-1618SCA	
	HT802/DF63-1618P-1	CL0550-0423-1-00	UL1007 (Note 4, 5)	DF63-1618PC	
Hand tool	HT802/DF63-1618P-2	CL0550-0424-4-00	UL1015 (Note 4, 6)	DF63-1618PCA	
	HT802/DF63-2022S-1	CL0550-0432-0-00	LII 1007 (Note 4. 7)	DF63A-2022SC DF63A-2022SCA	
	HT802/DF63-2022P-1	CL0550-0433-0-00	UL1007 (Note 4, 7)	DF63-2022PC DF63-2022PCA	

- Note 1 : Please conduct crimping work according to the "Crimping quality control statement of standards (ETAD-H0730-00, ETAD-H0810-00)" and "Crimping
- condition table".

 Note 2: Any problems that occur from using tools other than those specified by Hirose, are not covered by warranty.

 Note 3: Applicator dies can be switched to crimp the other wire size and type. The additional dies are sold separately.
- Note 4: Hand tool dies cannot be switched.
- The compatible wire is limited to UL1007, 16 to 18 AWG

- Note 6: The compatible wire is limited to UL1015, 16 to 18 AWG
 Note 7: The compatible wire is limited to UL1007, 20 to 22 AWG
 Note 8: Applicator manufactured by JAPAN AUTOMATIC MACHINE (J.A.M.). Please access to HP of J.A.M., if you make inquiries about the applicator or crimp defect. (URL: http://www.jam-net.co.jp)

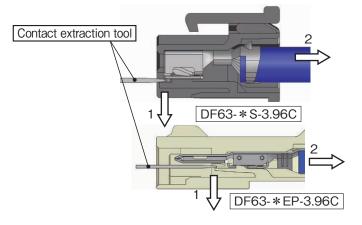
Contact Extraction

Contact extraction tool: Flat-bladed screwdriver. 1.2mm blade width or DF-C-PO(B) Intended crimp Contacts: DF63A-1618SC(F)(A), DF63A-2022SC(F)(A), DF63-1618PC(F)(A), DF63-2022PC(F)(A)

Work Method

- 1. Refer to the drawing No.1. Insert correct size contact extraction tool in the insulator against the molded-in lance. Deflect the lance as shown.
- 2. Assure that the lance is deflected to release the contact and pull-out wire with the terminated contact.

Housing Cross Sectional Diagram



* Using crimping socket after repair could induce decrease of lance strength, use new socket to avoid such fuilures.

⚠ Caution There are parts on the crimp contact that can cause injuries, please use caution when unmating the contacts.



Precautions for use

- 1. The connector could be damaged if it is pulled out forcibly. When it is hard to pull out, push it in slightly first and then depress the lock and un-mate.
- 2. When thick, short sections of wire are used, the connector could be deformed due to the force of the wires' position. Route cables in such a way that they do twist when being installed.
- 3. Make sure to turn off the power when mating or un-mating the connector.
- 4. Please do not touch any area around the contact part with your hand when the power is on; it could be very dangerous.
- 5. Please refer to the materials listed below when handling this product.
 - Crimping quality control statement of standards (ETAD-H0730-00, ETAD-H0810-00)
 - Harness procedure manual (ETAD-H0737-00)
 - ■Insertion/extraction manual (ETAD-H0892-00)
 - Board-to-Wire Connector Guidelines (ETAD-H1023-00)
- 6. The color of the plastic molding may differ slightly depending on product lot and future storage conditions but this does not affect the product performance.
- 7. Black spots may appear on the mold resin but this does not affect the product quality.

Rated values

- · Please avoid using the connectors above the ratings. Also, do not insert or pull out energized or "live" wires.
- · "Live wire insertion" refers to insertion while electricity is running.

Operating environment

· Please contact us if you are designing this connector into environmental conditions where high and low temperatures are repeated.

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please review the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/defense etc. Hirose must review before assurance of reliability can be given.

HIROSE

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