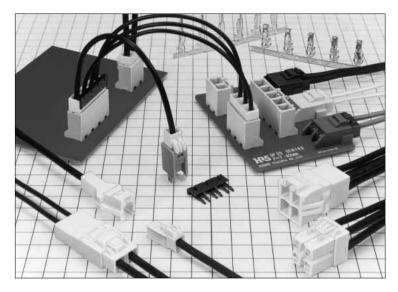
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

## 7.92 mm Contact Pitch, High-Current Connectors for Internal Power Supplies (UL, C-UL and TÜV Listed)

### **DF22** Series

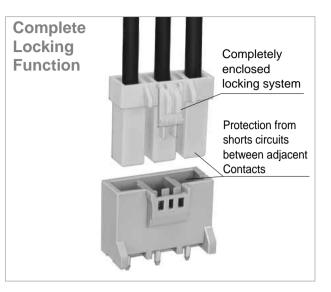


#### Features

- **1. 30 A maximum current** Single position connector can carry current of 30 A with #10 AWG conductor. Please refer to Table #1 for current ratings for multiposition connectors using other conductor sizes.
- 2. Complete Locking Function Reliable interior lock protects mated connectors from accidental disconnection.
- 3. Prevention of Incorrect Connections To prevent incorrect connection when using multiple connectors having the same Number of contacts, 3 product types having different mating configurations are available.
- 4. Molded-in contact retention tabs Handling of terminated contacts during the crimping is easier and avoids entangling of wires, since there are no protruding metal tabs.
- 5. Prevention of incorrect board placement Built-in posts assure correct connector placement and orientation on the board.
- 6. Supports encapsulation Connectors can be encapsulated up to 10 mm without affecting the performance.
- 7. Prevention of Short Circuits Between Adjacent Contacts Each Contact is completely surrounded by the insulator housing electrically isolating it from adjacent contacts.
- 8. Increased Retention Force of Crimped Contacts and confirmation of complete contact insertion Separate contact retainers are provided for applications where extreme pull-out forces may be applied against the wire or when a visual confirmation of the full contact insertion is required.
- **9. Full Line of Crimp Socket Contacts** Realizing the market needs for multitude of different applications, Hirose has developed several variants of crimp socket contacts and housings. Continuous development is adding different variations. Contact your nearest Hirose Electric representative for latest developments.
- **10. In-line Connections**

Connectors can be ordered for in-line cable connections. In addition, assemblies can be placed next to each other allowing 4 position total (2  $\times$  2) in a small space.

11. Listed by UL, C-UL, and TÜV.



### Prevention of Incorrect Connections

●R Type (Guide key: right side, Color: black)





### •Standard Type (Guide key: inside, Color: natural)





### ●L Type (Guide key: left side, Color: red)





\*The photographs on the left show header (the board dip side), the photographs on the right show the socket (cable side).

\*The guide key position is indicated in position facing the mating surface of the header.

### Applications

Office equipment, power supplies for industrial, medical and instrumentation applications, variety of consumer electronic, and electrical applications.



<b>Product</b>	Specifications
----------------	----------------

		Number of contacts	AWG10	AWG12	AWG14	AWG16	Operating temperature range	$25^{\circ}$ to $95^{\circ}$ (Note 1)	
		1	30A	25A	20A	15A	Operating temperature range	-35°C to 85°C (Note 1)	
	Current rating	2	25A	20A	18A	15A	Operating humidity range	20% to 80%	
		3	25A	20A	18A	15A	Storage temperature range	-10°C to 60°C (Note 2)	
Ratings		4	22A	18A	15A	13A	Storage humidity range	40% to 70% (Note 2)	
		5	22A	18A	15A	13A	UL/C-UL/TÜV File No	o. and Recognition No.	
		Spe	cification		AC/DC 1	V00C	UL : E526	53	
	Voltage rating	UI	_/C-UL		AC/DC	500V	C-UL : E526	53	
			TÜV		AC/DC	500V	TÜV : R995	0703	

Item	Specification	Condition
1. Contact resistance	Contact resistance(Initial value): 5 m ohms max.	20mV max., 1mA
2. Insulator resistance	1000 M ohms min.	1000 V DC
3. Withstanding voltage	No flashover or Insulator breakdown	2500 V AC for 1 minute
4. Insertion-Extraction force (per contact)	0.3N min., 5N max.	Measured with a steel pin of 1.6 x 0.8 $\pm$ 0.002 thickness
5. Durability (mating/unmating)	Contact resistance of 10 m ohms max.	30 cycles
6. Vibration	No electrical discontinuity of 1 $\mu$ s. min.	Frequency 10 to 55 Hz, single amplitude of 0.75 mm, 3 axis, duration of 2 hours
7. Shock	No electrical discontinuity of 1 $\mu$ s. min.	Acceleration of 490 m/s <sup>2</sup> , 11 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis.
8. Humidity	Contact resistance 10 m ohms max.	Temperature 40 $^\circ\!\mathrm{C}\pm2^\circ\!\mathrm{C}$ , 90% to 95% RH, 96 hours
9. Temperature cycle	Contact resistance of 10 m ohms max.	(-55°C: 30 minutes→ 5 to 35°C: 5 minutes→85°C: 30 minutes→5 to 35°C: 5 minutes) for 5 cycles
10. Resistance to Soldering heat	No deformation of the insulator parts affecting performance	Flow solder temperature 250°C, for 10 seconds Manual soldering: Soldering iron temperature 300°C, 3 seconds

Note 1: Current rating of header is 30A (1 pos.) and 25A (2 to 5 pos.)

Note 2: Includes temperature rise caused by the current flow.

Note 3: 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 4: 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

Product	Part	Material	Finish	Remarks
Sockets	Insulator	Polyamide	Color: Natural white (Note)	UL94V-0
Crimp contacts	Contacts	High conductivity copper alloy	Tin-lead plated	
Headers	Insulator	Polyamide (Glass reinforced)	Color: Natural beige (Note)	UL94V-0
	Contacts	High conductivity copper alloy	Tin-copper plated	

Note : Standard Color, colors of the differing coupling forms are black for DF22R and red for DF22L.

### Ordering Information

#### Socket, Header

# $\frac{\mathsf{DF22}}{\mathsf{O}} \stackrel{\mathsf{B}}{=} \frac{\mathsf{L}}{\mathsf{O}} - \frac{\mathsf{2}}{\mathsf{O}} \stackrel{\mathsf{S}}{=} - \frac{\mathsf{7.92}}{\mathsf{O}} \stackrel{\mathsf{C}}{=} \frac{\mathsf{C}}{\mathsf{O}}$

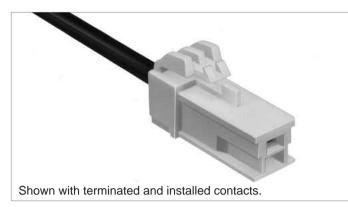
Contacts
----------

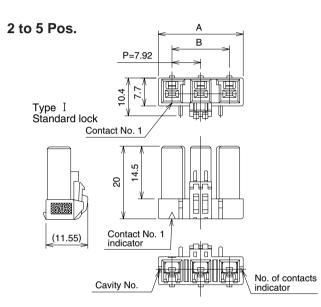
## $\frac{\mathsf{DF22}}{\bullet} \stackrel{\mathsf{A}}{\otimes} - \frac{\mathsf{1416}}{\circ} \stackrel{\mathsf{SCF}}{\bullet}$

Series name: DF22	4 Number of contacts	s : 1 to 5	Applicable C	Cable
Porm Type	Connector type		Blank	< : UL1430
Sockets	S	: Socket	A	: UL1015
Blank : Standard height, standard lock (Type I)	DS	: Double-row socket	Applicable C	Conductor
B: Long type, standard lock (Type III)	Р	: Header	1416	: AWG 14 to AWG 16
C : Long type, ergonomic lock (Type IV)	EP	: In-line plug	1012	: AWG 10 to AWG 12
In-line Plugs	DEP	: Double-row in-line plug	Packaging	
Blank : With panel stop	RS/P	: Retainer	SCF	: Socket contacts / Reel
A : Without panel stop	Contact pitch	: 7.92 mm	SC	: Socket contacts / Bag
Suide key type	Type of housing		PCF	: In-line plug contacts / Ree
Blank : Inside (Color: natural)	С	: Crimp housing	PC	: In-line plug contacts / Bag
R : Right side (Color: black)	DSA	: Straight header		
L : Left side (Color: red)	DS	: Right-angle header		
	No letter	r:Retainer		

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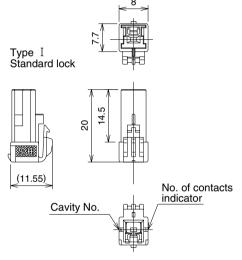
### **Crimp Sockets (Standard Type)**





Shown with terminated and installed contacts.

#### 1 Pos.



#### Type I

Height: Standard type, Standard lock

Note: The part number and CL No. have changed to accommodate the product form change of the 2 to 5 pos. types.

#### Standard Type (Guide Key: Inside, Color: White)

Part Number	CL No.	Number of contacts	А	В	RoHS
DF22-1S-7.92C(28)	680-1012-2-28	1	8.00		
DF22-2S-7.92C(28)	680-1004-4-28	2	15.50	7.92	
DF22-3S-7.92C(28)	680-1005-7-28	3	23.42	15.84	YES
DF22-4S-7.92C(28)	680-1006-0-28	4	31.34	23.76	
DF22-5S-7.92C(28)	680-1007-2-28	5	39.26	31.68	

#### R Type (Guide Key: Right Side, Color: Black)

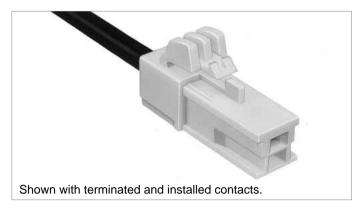
Part Number	CL No.	Number of contacts	Α	В	RoHS
DF22R-1S-7.92C(28)	680-1026-7-28	1	8.00		
DF22R-2S-7.92C(28)	680-1027-0-28	2	15.50	7.92	
DF22R-3S-7.92C(28)	680-1028-2-28	3	23.42	15.84	YES
DF22R-4S-7.92C(28)	680-1029-5-28	4	31.34	23.76	
DF22R-5S-7.92C(28)	680-1030-4-28	5	39.26	31.68	

#### L Type (Guide Key: Left Side, Color: Red)

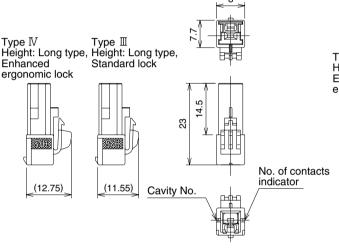
•••					
Part Number	CL No.	Number of contacts	А	В	RoHS
DF22L-1S-7.92C(28)	680-1031-7-28	1	8.00		
DF22L-2S-7.92C(28)	680-1032-0-28	2	15.50	7.92	
DF22L-3S-7.92C(28)	680-1033-2-28	3	23.42	15.84	YES
DF22L-4S-7.92C(28)	680-1034-5-28	4	31.34	23.76	
DF22L-5S-7.92C(28)	680-1035-8-28	5	39.26	31.68	
Nata: Dan naslian	:		ar of h		

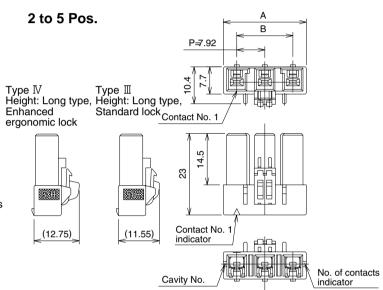
Note: Bag packaging (100 pieces/bag). Order by number of bags.

### Crimp Sockets (Height, Long Type)



#### 1 Pos.





Shown with terminated and installed contacts.

Type III Height: Long type, Standard lock

#### Standard Type (Guide Key: Inside, Color: White)

Part Number	CL No.	Number of contacts	А	В	RoHS
DF22B-2S-7.92C	680-1097-5	2	15.50	7.92	
DF22B-3S-7.92C	680-1098-8	3	23.42	15.84	YES
DF22B-4S-7.92C	680-1099-0	4	31.34	23.76	TES
DF22B-5S-7.92C	680-1100-8	5	39.26	31.68	

Note: Bag packaging (100 pieces/bag). Order by number of bags.

Type IV

Height: Long type, Enhanced ergonomic lock

#### Standard Type (Guide Key: Inside, Color: White)

Part Number	CL No.	Number of contacts	Α	В	RoHS
DF22C-1S-7.92C	680-1101-0	1	8.00		
DF22C-2S-7.92C	680-1102-3	2	15.50	7.92	YES
DF22C-3S-7.92C	680-1103-6	3	23.42	15.84	TES
DF22C-4S-7.92C	680-1104-9	4	31.34	23.76	

#### R Type (Guide Key: Right Side, Color: Black)

<b>J</b> 1 (	, 0	,		,	
Part Number	CL No.	Number of contacts	А	В	RoHS
DF22CR-3S-7.92C	680-1130-9	3	23.42	15.84	YES

#### L Type (Guide Key: Left Side, Color: Red)

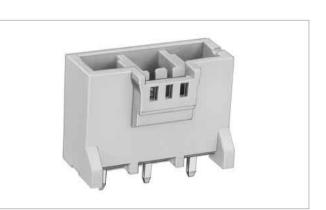
DF22CL-1S-7.92C 680-1133-7 1 8.00 —   DF22CL-3S-7.92C 680-1135-2 3 23.42 15.84 YES	Part Number	CL No.	Number of contacts	А	В	RoHS
DF22CL-3S-7.92C 680-1135-2 3 23.42 15.84	DF22CL-1S-7.920	680-1133-7	1	8.00		VEC
	DF22CL-3S-7.920	680-1135-2	3	23.42	15.84	TES

Note: Bag packaging (100 pieces/bag). Order by number of bags.

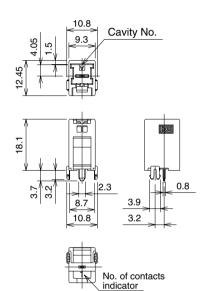
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### Straight header





#### 1 Pos.



#### Standard Type (Guide Key: Inside, Color: Natural Beige)

Part Number	CL No.	Number of contacts	А	В	Bag Packaging	Tray Packaging	RoHS
DF22-1P-7.92DSA(**)	680-1013-5-**	1	10.08			1	
DF22-2P-7.92DSA(**)	680-1014-8-**	2	17.22	7.92	1		
DF22-3P-7.92DSA(**)	680-1015-0-**	3	25.14	15.84	1		YES
DF22-4P-7.92DSA(**)	680-1016-3-**	4	33.06	23.76	1		
DF22-5P-7.92DSA(**)	680-1017-6-**	5	40.98	31.68	1		

#### R Type (Guide Key: Right Side, Color: Black)

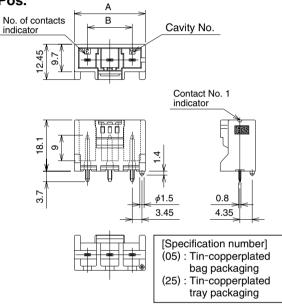
Part Number	CL No.	Number of contacts	Α	В	Bag Packaging	Tray Packaging	RoHS
DF22R-1P-7.92DSA(**)	680-1036-0-**	1	10.08			1	
DF22R-2P-7.92DSA(**)	680-1037-3-**	2	17.22	7.92	1		
DF22R-3P-7.92DSA(**)	680-1038-6-**	3	25.14	15.84	1		YES
DF22R-4P-7.92DSA(**)	680-1039-9-**	4	33.06	23.76	1		
DF22R-5P-7.92DSA(**)	680-1040-8-**	5	40.98	31.68	1		

#### L Type (Guide Key: Left Side, Color: Red)

Part Number	CL No.	Number of contacts	Α	В	Bag Packaging	Tray Packaging	RoHS
DF22L-1P-7.92DSA(**)	680-1041-0-**	1	10.08			1	
DF22L-2P-7.92DSA(**)	680-1042-3-**	2	17.22	7.92	1		
DF22L-3P-7.92DSA(**)	680-1043-6-**	3	25.14	15.84	1		YES
DF22L-4P-7.92DSA(**)	680-1044-9-**	4	33.06	23.76	1		
DF22L-5P-7.92DSA(**)	680-1045-1-**	5	40.98	31.68	1		

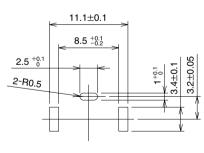
Note 1: Bag packaging (100 pieces/bag). Order by number of bags. Note 2: Tray packaging (150 pieces/tray). Order by number of 150.

2 to 5 Pos.

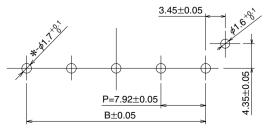


#### PCB mounting pattern (Board thickens: 1.6±0.1)

1 Pos.

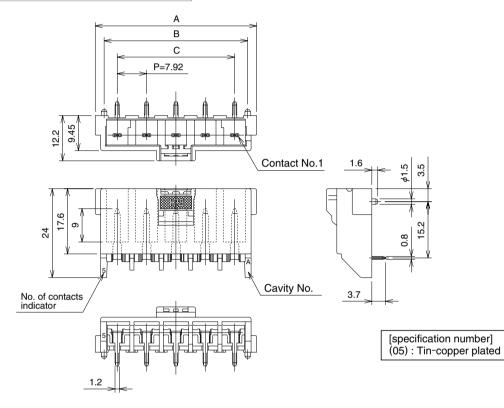


2 to 5 Pos.



### Right angle header





#### Standard Type (Guide Key: Inside, Color: Natural Beige)

Part Number	CL No.	Number of contacts	А	В	С	RoHS
DF22-2P-7.92DS(05)	680-1008-5-05	2	19.80	15.00	7.92	
DF22-3P-7.92DS(05)	680-1009-8-05			22.92		YES
DF22-4P-7.92DS(05)	680-1010-7-05	4	35.64	30.84	23.76	153
DF22-5P-7.92DS(05)	680-1011-0-05	5	43.56	38.76	31.68	

#### R Type (Guide Key: Right Side, Color: Black)

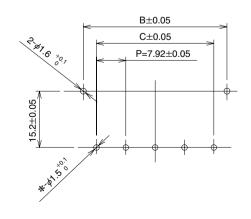
Part Number	CL No.	Number of contacts	А	В	С	RoHS
DF22R-2P-7.92DS(05)	680-1018-9-05	2	19.80	15.00	7.92	
DF22R-3P-7.92DS(05)	680-1019-1-05	3	27.72	22.92	15.84	VEO
DF22R-4P-7.92DS(05)	680-1020-0-05	4	35.64	30.84	23.76	YES
DF22R-5P-7.92DS(05)	680-1021-3-05	5	43.56	38.76	31.68	

#### L Type (Guide Key: Left Side, Color: Red)

Part Number	CL No.	Number of contacts	А	В	С	RoHS
DF22L-2P-7.92DS(05)	680-1022-6-05	2	19.80	15.00	7.92	
DF22L-3P-7.92DS(05)	680-1023-9-05	3	27.72	22.92	15.84	YES
DF22L-4P-7.92DS(05)	680-1024-1-05	4	35.64	30.84	23.76	TES
DF22L-5P-7.92DS(05)	680-1025-4-05	5	43.56	38.76	31.68	

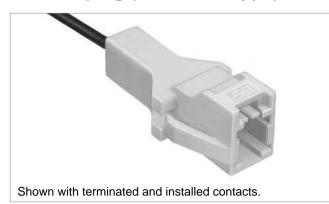
Note: Bag packaging (100 pieces/bag). Order by number of bags.

### PCB mounting pattern (Board thickens: 1.6±0.1)

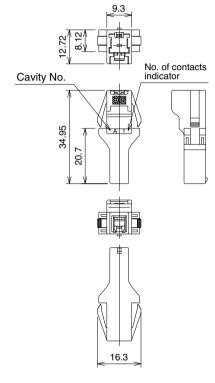


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### ■In-line plug (Panel lock type)



#### 1 Pos.



#### Standard Type (Guide Key: Inside, Color: White)

Part Number	CL No.	Number of contacts	Α	В	С	RoHS
DF22-1EP-7.92C	680-1048-0	1	9.30	_	16.30	
DF22-2EP-7.92C	680-1049-2	2	17.22	7.92	24.22	YES
DF22-3EP-7.92C	680-1050-1	3	25.14	15.84	32.14	

#### R Type (Guide Key: Right Side, Color: Black)

Part Number	CL No.	Number of contacts	Α	В	С	RoHS
DF22R-2EP-7.92C	680-1059-6	2	17.22	7.92	24.22	
DF22R-3EP-7.92C	680-1060-5	3	25.14	15.84	32.14	TES

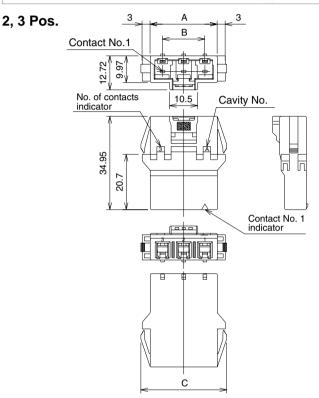
#### L Type (Guide Key: Left Side, Color: Red)

Part Number	CL No.	Number of contacts	Α	В	С	RoHS
DF22L-1EP-7.92C	680-1063-3	1	9.30	_	16.30	VEC
DF22L-2EP-7.92C	680-1064-6	2	17.22	7.92	24.22	TES

Note: Bag packaging (100 pieces/bag). Order by number of bags.

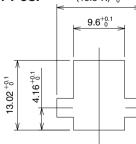


Shown with terminated and installed contacts.

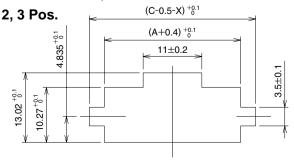


Panel Cutout

**1 Pos.** (15.8-X)<sup>+0.1</sup>



Panel thickness	Х
2.0	0.48
1.6	0.96
1.2	1.44
0.8	1.92

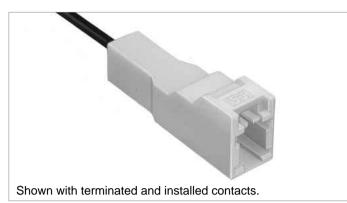


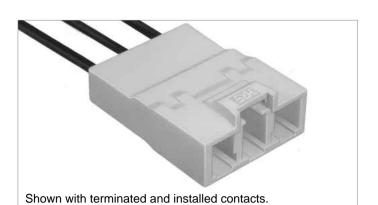
3.5±0.1

**HS** B113

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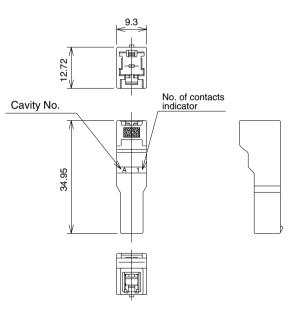
### In-line Plug











## Standard Type (Guide Key: Inside, Color: Natural Beige)

Standard Type (Guide Key: Inside, Color: Natural Beige)									
Part Number	CL No.	Number of contacts	Α	В	RoHS				
DF22A-1EP-7.92C	680-1053-0	1	9.30						
DF22A-2EP-7.92C	680-1054-2	2	18.00	7.92	YES				
DF22A-3EP-7.92C	680-1055-5	3	26.00	15.84					

### R Type (Guide Key: Right Side, Color: Black)

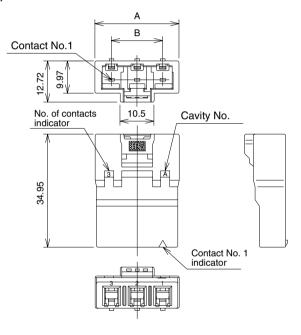
Part Number	CL No.	Number of contacts	Α	В	RoHS
DF22AR-2EP-7.92C	680-1069-0	2	18.00	7.92	VEO
DF22AR-3EP-7.92C	680-1070-9	3	26.00	15.84	TES

### L Type (Guide Key: Left Side, Color: Red)

Part Number	CL No.	Number of contacts	Α	В	RoHS
DF22AL-2EP-7.92C 680-1074-0		2	18.00	7.92	YES

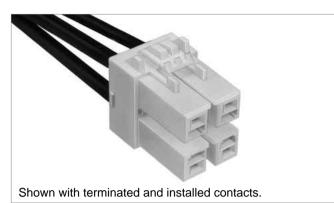
Note: Bag packaging (100 pieces/bag). Order by number of bags.

2, 3 Pos.



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### ■In-line Double-row socket



#### Standard Type (Guide Key: Inside, Color: White)

Part Number	CL No.	Number of contacts	Lock type	RoHS
DF22B-4DS-7.92C	680-1142-8	4	Standard lock	YES

#### R Type (Guide Key: Right Side, Color: Black)

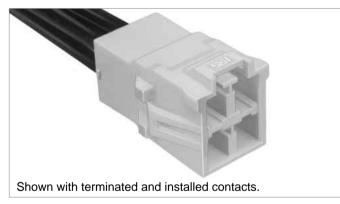
	ntacts Lock type RoHS
DF22BR-4DS-7.92C 680-1156-2 4	Standard lock YES

#### L Type (Guide Key: Left Side, Color: Red)

Part Number	CL No.	Number of contacts	Lock type	RoHS			
DF22BL-4DS-7.92C	680-1161-2	4	Standard lock	YES			
Note: Pag packaging (100 piezos/bag) Order by number of bage							

Note: Bag packaging (100 pieces/bag). Order by number of bags.

### In-line Double-row Plug



#### Standard Type (Guide Key: Inside, Color: White)

Part Number	CL No.	Number of contacts	Connector type	RoHS
DF22-4DEP-7.92C	680-1051-4	4	With snap-in tabs	YES
DF22A-4DEP-7.92C	680-1056-8	4	Without snap-in tabs	TES

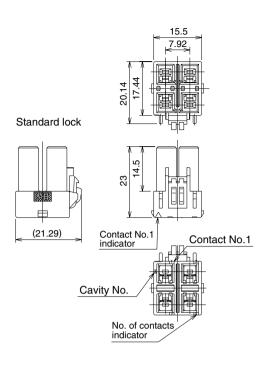
#### R Type (Guide Key: Right Side, Color: Black)

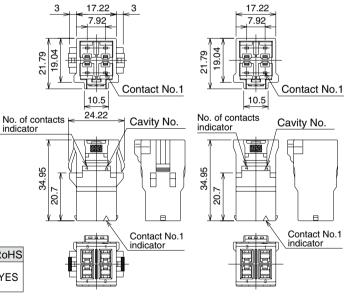
Part Number	CL No.	Number of contacts	Connector type	RoHS
DF22R-4DEP-7.92C	680-1170-3	4	With snap-in tabs	YES
DF22AR-4DEP-7.92C	680-1184-8	4	Without snap-in tabs	TES

#### L Type (Guide Key: Left Side, Color: Red)

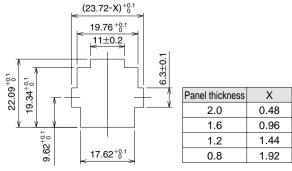
Part Number	CL No.	Number of contacts	Connector type	RoHS
DF22L-4DEP-7.92C	680-1175-7	4	With snap-in tabs	YES
DF22AL-4DEP-7.92C	680-1189-1	4	Without snap-in tabs	TES

Note: Bag packaging (100 pieces/bag). Order by number of bags.



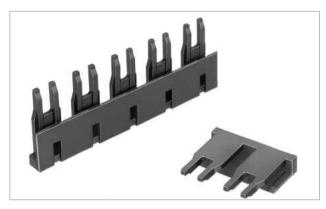


### ● Panel Cutout (Panel mount type)

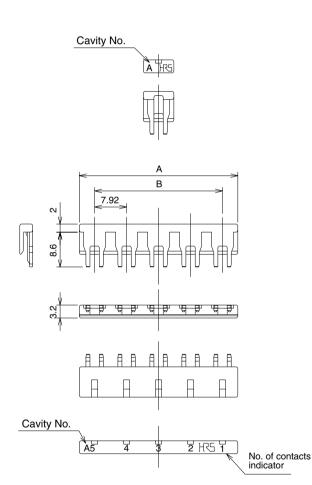


The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Roll Brazy Serves been by converting the serve the modern's status in the Higgs products and the Higgs product status in the Higgs products and the Higgs product status in the Higgs products and the Hig

### Retainer



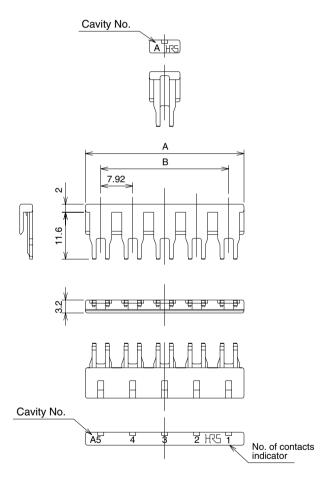
For Standard height, standard lock (Type I)



Part Number	CL No.	Number of contacts	Α	В	RoHS	
DF22-2RS/P-7.92	680-1209-7	2	15.50	7.92		
DF22-3RS/P-7.92	680-1210-6	3	23.42	15.84	YES	
DF22-4RS/P-7.92	680-1211-9	4	31.34	23.76	TES	
DF22-5RS/P-7.92	680-1212-1	5	39.26	31.68		
Applicable Socket	DF22-*S-7.92C For Standard height, standard lock (Type I)					
Applicable Socket	* indicates number of contacts.		cts.			

Note: Bag packaging (100 pieces/bag). Order by number of bags.

### For Long type, standard lock (Type III) Long type, enhanced ergonomic lock (Type IV)

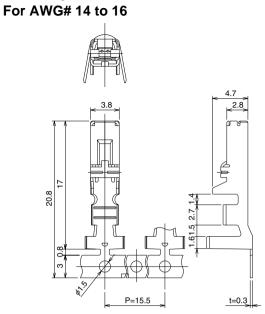


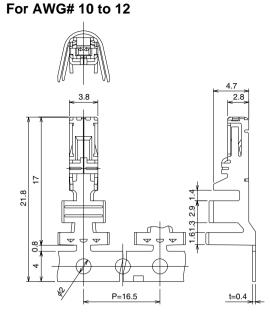
Part Number	CL No.	Number of contacts	Α	В	RoHS		
DF22B/C-2RS/P-7.92	680-1200-2	2	15.50	7.92			
DF22B/C-3RS/P-7.92	680-1201-5	3	23.42	15.84	YES		
DF22B/C-4RS/P-7.92	680-1202-8	4	31.34	23.76	IES		
DF22B/C-5RS/P-7.92	680-1203-0	5	39.26	31.68			
	DF22B-*S-7.92C Fo	r Long type, s	standard	d lock (1	ype III)		
	DF22C-*S-7.92C Long type, enhanced ergonomic lock (Type IV)						
Applicable Socket	DF22-*EP-7.92C						
	DF22A-*EP-7.92	2C					
	* indicates number of contacts.						

Note: Bag packaging (100 pieces/bag). Order by number of bags.

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### Crimp Contact for socket



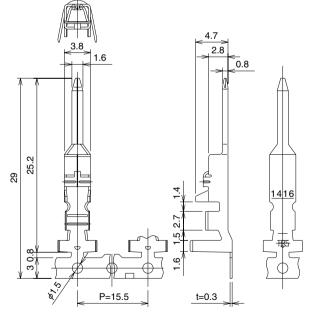


Dort Number	Part Number CL No.	Applicable cable				Packaging	Quantity	RoHS	
Fait Number	CL NO.	UL style	Jacket diameter	Wire size	Stranded wire conductor	Гаскадінд	Quantity	копо	
DF22-1416SCF	680-1000-3	4.400	0.44-0.0			Reel	2,500		
DF22-1416SC	680-1001-6	1430	2.4 to 3.0	AWG#16	26/0.254	Bag	100		
DF22A-1416SCF	680-1002-9	3.0 to 3.8		0.0.1. 0.0	AWG#14	41/0.26	Reel	2,000	YES
DF22A-1416SC	680-1003-1			3.0 to 3.8			Bag	100	TES
DF22A-1012SCF	680-1089-7	1015	0.01- 4.0	AWG#12	65/0.26	Reel	2,000		
DF22A-1012SC	680-1090-6		3.6 to 4.9	AWG#10	104/0.26	Bag	100		

Note 1: Applicable wire with tin plated solid soft conductor.

Note 2: When using other than the recommended wire, contact your nearest Hirose representative. Note 3: Strip length: 3.5 to 4.5mm

### Crimp Contact for In-line Plug



Part Number	CL No. Applicable cable		Deeleasing	Quantity	RoHS					
Fait Number	GL NO.	UL style	Jacket diameter	Wire size	Stranded wire conductor	Packaging	2,500 100	RUNS		
DF22-1416PCF	680-1078-0	4.400	0.445.0.0			Reel	2,500			
DF22-1416PC	680-1080-2	1430 2.4 to 3.0	1430	AWG#16 2.4 10 3.0 AWG#16 26/0	AWG#16	AWG#16	26/0.254	Bag	100	YES
DF22A-1416PCF	680-1079-3	4045	0.04.0.0	AWG#14	41/0.26	Reel	2,000	7 163		
DF22A-1416PC	680-1081-5	1015	3.0 to 3.8	3.0 to 3.8		Bag	100	]		

Note 1: Applicable wire with tin plated solid soft conductor.

Note 2: When using other than the recommended wire, contact your nearest Hirose representative.

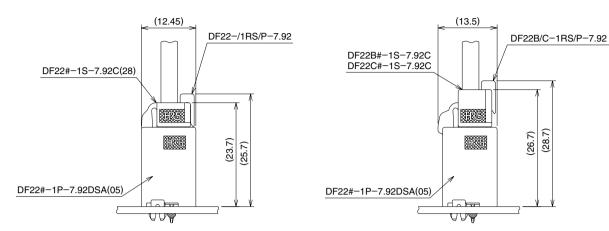
Note 3: Strip length: 3.5 to 4.5mm

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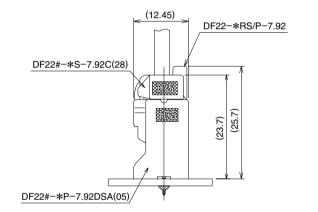
### Mating Dimensions

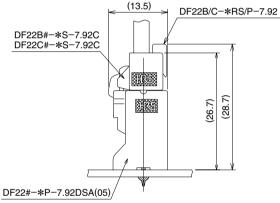
### Socket to Straight Header Connection

1 Pos.

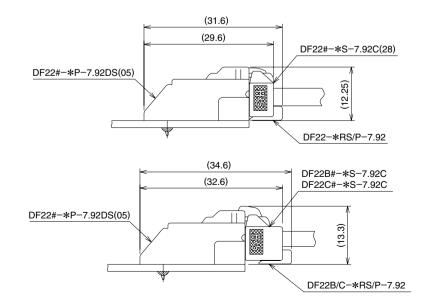


2 to 5 Pos.



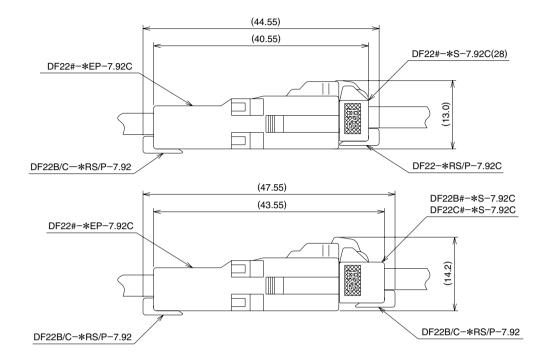


### Socket to Right angle Header Connection

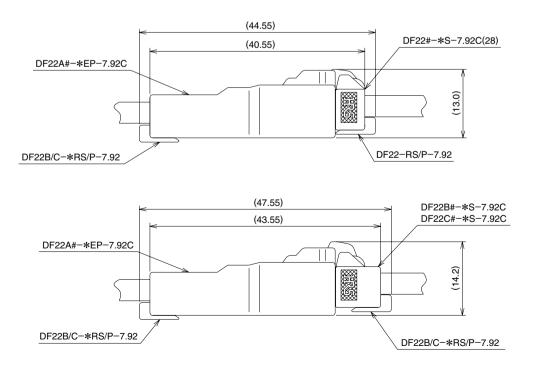


B118 **HS** 

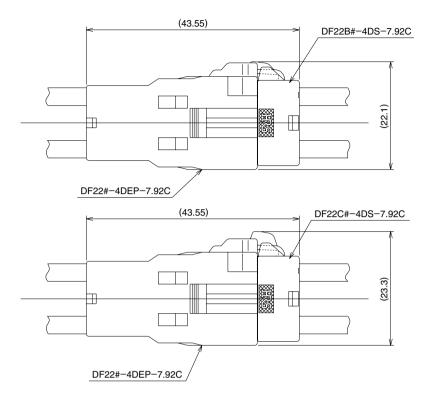
### •Socket to In-line Plug (Panel mount type) Connection



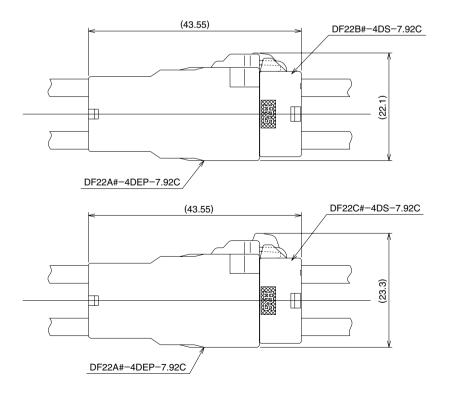
•Socket to In-line Plug Connection



#### ●In-line Double-row socket to In-line Double-row Plug (Panel mount type) Connection



#### ●In-line Double-row socket to In-line Double-row Plug Connection



B120 **HS** 

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Туре	Item	Part Number	CL No.	Applicable Contacts	
Press unit		CM-105	901-0005-4	DF22/DF22A-1416SCF/PCF	
Automatic Applicators are used in autom	Applicators are used in automatic crimping	AP105-DF22-1416	901-4576-7	DF22-1416SCF/PCF	
	machines manufactured by Hirose Electric	AP105-DF22A-1416	901-4578-2	DF22A-1416SCF/PCF	
	Applicators are used in automatic	AP109A-DF22-1416	901-4579-5	DF22-1416SCF/PCF	
	crimping machines manufactured by	AP109A-DF22A-1416	901-4580-4	DF22A-1416SCF/PCF	
	other companies	AP109A-DF22A-1012	901-4582-0	DF22A-1012SCF	
Manual Crimp tools		HT104/DF22-1416	550-0285-0	DF22-1416SC/PC	
	Crimp tools	HT104/DF22A-1416	550-0286-2	DF22A-1416SC/PC	
		HT103/DF22A-1012	550-0288-8	DF22A-1012SC	

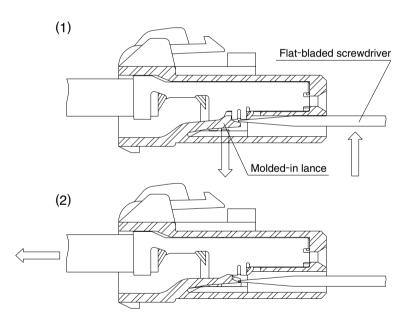
Note 1: When crimping contact DF22A-1012SCF use a press with 3.5 ton min.

Note 2: AP109A type applicators cannot be used with the CM-105 press.

### Contact Extraction

- Contact extraction tool: Flat-bladed screwdriver, 1.4 mm blade width
- Intended crimp Contacts: DF22-1416SC(F), DF22A-1416SC(F), DF22A-1012SC(F), DF22-1416PC(F), and DF22A-1416PC(F)
- Work Method

#### Housing Cross-Sectional Diagram



- 1. Refer to the drawing No. 1. Insert correct size screwdriver 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.

### Precautions

- •Make sure that the lock is fully depressed before un-mating the connectors.
- •Use correct size of the wires. Do NOT forcefully twist or deform wires, as this may affect the crimped contact connection.

### Current Ratings

The current rating listed in the catalog indicates the allowable current per contact. However, in applications requiring current transmission through all the contacts, about one-third of the listed rating should be applied. When the current rating for the connector is 3 A, and the allowable current of the conductor being used is 1 A, then rating of 1 A will be used for the entire assembly.

The connectors should not be mating / unmating when the electrical current is being applied.

Hot swap should not be performed.

### Usage Environment

Please contact us about use in equipment that is subjected to repetitive high temperature and low temperature environmental conditions.