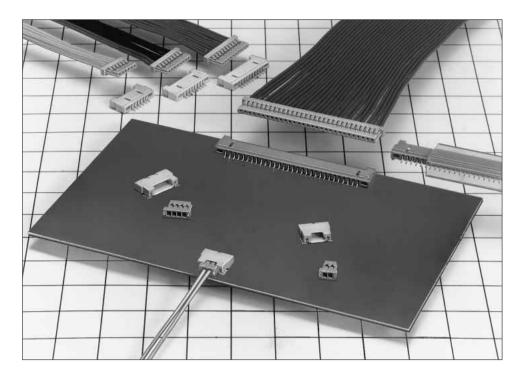
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at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

1.25mm Pitch Super Low profile Crimping Connector

DF14 Series



Features

1. Super Low Profile

This is a connector special for right angle which has pursued a low profile on the board.

Board mounting height: 2.5mm

A signal can be fetched from the area where there is no board to board space. (Refer to fig.1) Offset type is available.

Board mounting height: **1.6mm** (Refer to fig.2)

2. Correspond to Automatic Mounting

The header has the vacuum mount face which enables the vacuum absorption and the automatic mounting by the embossed tape packaging. In addition, the tube packaging can be selected.

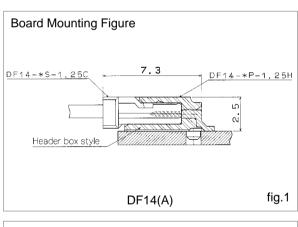
3. Four Wall Type Without Friction to Board by Socket

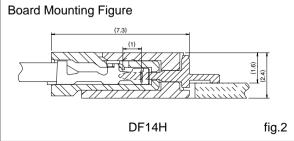
The header has the box structure to prevent from being twisted and has the perfect mis-insertion prevention method. Moreover the header has the wall on the board side and doesn't have any trouble resulted from the friction to board by socket.

In addition, the metal fitting is attached to prevent the solder peel.

Applications

LCD, Note PC, Mobile Terminal Small business equipment, Video camera





■Product Specifications

Dating	Current rati	ing 1A	Operating Temperature Range -	35 to +85℃ (Note 1)	Storage Temperature Range	-10 to +60°C (Note 2)	
Rating	Voltage rati	ing 150V AC	Operating Moisture Range	40 to 80	%	Storage Moisture Range	40 to 70% (Note 2)	
Item			Specification		Condition			
1. Insulation R	esistance	500M ohms N	ſin		100V E	DC .		
2. Withstandin	g voltage	No flashover o	or insulation breakdown.		500V A	C/1 minute		
3. Contact Res	sistance	30m ohms Ma	Х		100mA			
4. Insertion/Extr	action Force	MIN0.15N (15gf), MAX3N (300gf)			Measure at the square steel pin of 0.3±0.002mm			
5. Vibration		No electrical d	iscontinuity of 1μ s or more		Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.			
6. Humidity (St	eady state)	Contact resistance:	30m ohms Max Insulation resistance:500)M ohms Min	96 hours at temperature of 40° C and humidity of 90% to 95%			
7 Tamparatur		Contact resistance: 30m ohms Max Insulation resistance: 500M ohms Min			(-25℃: 30 minutes→5 to 35℃: 10 minutes→85℃: 30 minutes→			
7. Temperatur	e Cycle				5 to 35℃: 10 minutes) 5 cycles			
8. Durability (Mati	urability (Mating/un-mating) Contact resistance: 30m ohms Max			Tin plating: 30 cycles Gold plating: 50 cycles				
O. Desistance to O	Soldering heat No deformation of components affecting performance.			Reflow: At the recommended temperature profile				
9. Resistance to S			rmance.	Manual soldering: 300°C for 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.

Material

Product	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide	Beige	UL94V-0
Crimping Contact for Socket	ing Contact for Socket Contact Phosphor Copper Tin-copper plated or gr		Tin-copper plated or gold plated	
	Insulator	Polyamide	Beige	UL94V-0
Pin Header	Contact	Brass	Tin-copper plated or gold plated	
	Fitting	Phosphor copper	Tin-copper plated	

Ordering Information

Connector

DF 14 # - * S - 1.25 C

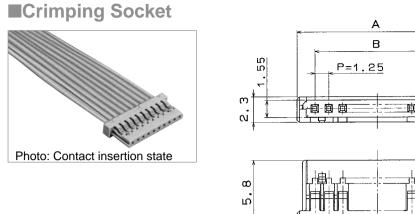
0 2 6	4 5 6
Series Name: DF14	Connector Type
Ø Blank: Standard, with boss	S: Single row socket
A: on-board, without boss	P: Single row pin header
H: offset	6 Contact Pitch: 1.25mm
S Number of Contacts: 2 to 10, 15, 20, 25, 30	Contact Type
	C: Crimping socket
	H: Right angle SMT

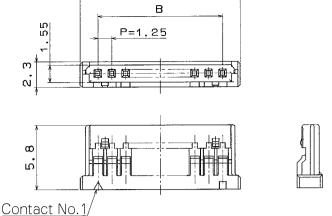
Contact

DF14 - <u>2628</u> <u>SCF</u> <u>A</u>

Packaging Type
SCF: Socket contact/reel
Intersection of the section of th
Blank: Tin plated
A: Gold plated

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					Unit: mm
Part Number	CL No.	Number of Contacts	А	В	RoHS
DF14- 2S-1.25C	538-0005-8	2	4.45	1.25	
DF14- 3S-1.25C	538-0006-0	3	5.70	2.50	
DF14- 4S-1.25C	538-0007-3	4	6.95	3.75	
DF14- 5S-1.25C	538-0008-6	5	8.20	5.00	
DF14- 6S-1.25C	538-0009-9	6	9.45	6.25	
DF14- 7S-1.25C	538-0010-8	7	10.70	7.50	
DF14- 8S-1.25C	538-0011-0	8	11.95	8.75	Yes
DF14- 9S-1.25C	538-0013-6	9	13.20	10.00	
DF14-10S-1.25C	538-0014-9	10	14.45	11.25	
DF14-15S-1.25C	538-0054-3	15	20.70	17.50	
DF14-20S-1.25C	538-0059-7	20	26.95	23.75	
DF14-25S-1.25C	538-0064-7	25	33.20	30.00]
DF14-30S-1.25C	538-0012-3	30	39.45	36.25	

Note 1.The quantity is delivered per bag(100 pcs). If needed, please order the products per bag.

Conductor Size (Wire construction)

AWG28(7 cores/0.127mm)

AWG26(7 cores/0.16mm)

AWG30(7 cores/0.1mm)

AWG32(7 cores/0.08mm)

Socket Crimping Contact

Part Number	CL No.	Packaging Type	Quantity	Finish	RoHS
DF14-2628SCF	538-0001-7-**	Reel		Tin plated	
DF14-3032SCF	538-0003-2-**	Reel	10.000	Thi plateu	Yes
DF14-2628SCFA	538-0002-0-**	Reel	10,000	Cold plated	
DF14-3032SCFA	538-0004-5-**	Reel		Gold plated	

Jacket Diameter

φ0.54 to φ1mm

Applicable Cable (Tin plating Annealed copper wire)

Recommended Cable

UL1571

Strip Length

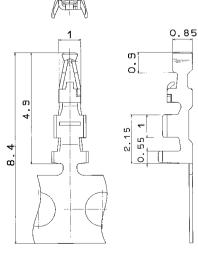
1.2 to 1.9mm

Note: If other cables are used instead of the applicable cable, contact Hirose sales department.

● Applicable Crimping Tool

Туре	Part Number	CL No.	Applicable Contact
Annlington	AP105-DF14-2628S	901-4548-1	DF14-2628SCF/SCFA
Applicator	AP105-DF14-3032S	901-4544-0	DF14-3032SCF/SCFA
Press Main Unit	CM-105	901-0005-4	
	DF14-2628/CR-HT	550-0261-1	DF14-2628SCF/SCFA
Manual Crimping Tool	DF14-3032/CR-HT	550-0262-4	DF14-3032SCF/SCFA

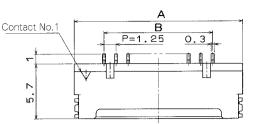
Note 1.If a trouble has occurred due to tools, which are not designated by Hirose, Hirose won't guarantee any product. Note 2.Use the reel contact sequentially cut for manual crimping tool.

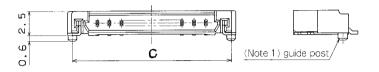


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■Right Angle Pin Header (SMT)

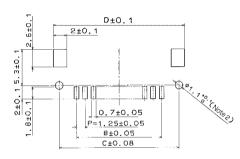






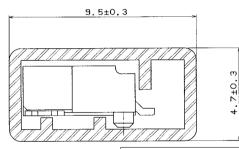
Note 1."Without boss" indicates the style with no boss.

● PCB mounting pattern



Note 2."Without boss" indicates that no hole is needed.

● Tube Packaging Dimensions



[Specific No.]-**,(**) (25): Tin-copper plated tube packaging (26): Tin-copper plated embossed tape packaging (55): Gold plated tube packaging (56): Gold plated embossed tape packaging

Unit: mm

With bos	SS	Without be	DSS	Number	^	_	~		Tube	Delle
Part Number	CL No.	Part Number	CL No.	of Contacts	A	В	С	D	Packaging Quantity	RoHS
DF14- 2P-1.25H(**)	538-0021-4-**	DF14A- 2P-1.25H(**)	538-0033-3-**	2	7.45	1.25	6.45	8.05	66	
DF14- 3P-1.25H(**)	538-0022-7-**	DF14A- 3P-1.25H(**)	538-0034-6-**	3	8.70	2.50	7.70	9.30	56	
DF14- 4P-1.25H(**)	538-0023-0-**	DF14A- 4P-1.25H(**)	538-0035-9-**	4	9.95	3.75	8.95	10.55	49	
DF14- 5P-1.25H(**)	538-0024-2-**	DF14A- 5P-1.25H(**)	538-0036-1-**	5	11.20	5.00	10.20	11.80	44	
DF14- 6P-1.25H(**)	538-0025-5-**	DF14A- 6P-1.25H(**)	538-0037-4-**	6	12.45	6.25	11.45	13.05	39	
DF14- 7P-1.25H(**)	538-0026-8-**	DF14A- 7P-1.25H(**)	538-0038-7-**	7	13.70	7.50	12.70	14.30	36	
DF14- 8P-1.25H(**)	538-0027-0-**	DF14A- 8P-1.25H(**)	538-0039-0-**	8	14.95	8.75	13.95	15.55	32	Yes
DF14- 9P-1.25H(**)	538-0028-3-**	DF14A- 9P-1.25H(**)	538-0040-9-**	9	16.20	10.00	15.20	16.80	30	
DF14-10P-1.25H(**)	538-0029-6-**	DF14A-10P-1.25H(**)	538-0041-1-**	10	17.45	11.25	16.45	18.05	28	
DF14-15P-1.25H(**)	538-0084-4-**	DF14A-15P-1.25H(**)	538-0114-3-**	15	23.70	17.50	22.70	24.30	20	
DF14-20P-1.25H(**)	538-0089-8-**	DF14A-20P-1.25H(**)	538-0119-7-**	20	29.95	23.75	28.95	30.55	16	
DF14-25P-1.25H(**)	538-0094-8-**	DF14A-25P-1.25H(**)	538-0124-7-**	25	36.20	30.00	35.20	36.80	13	1
DF14-30P-1.25H(**)	538-0020-1-**	DF14A-30P-1.25H(**)	538-0045-2-**	30	42.45	36.25	41.45	43.05	11	1

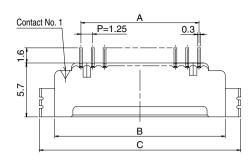
Note 1.Please order the tube packaging product, multiplying the packaging quantity (pcs.).

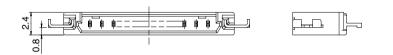
Note 2.Please order the embossed tape packaging product according to reel number. (1000 pcs./reel)

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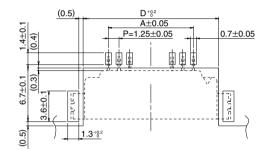
Right Angle Pin Header (Offset, SMT)







● PCB mounting pattern



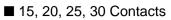
[Specific No.]-**,(**) (56): Gold plated embossed tape packaging

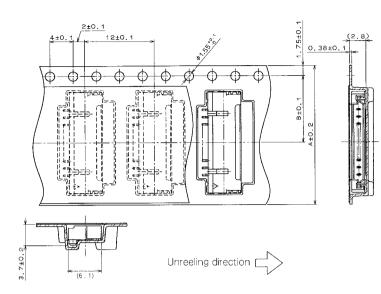
					_	_	Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	RoHS
DF14H- 2P-1.25H(**)	538-0177-3-**	2	1.25	6.8	10.1	7.2	
DF14H-20P-1.25H(**)	538-0167-0-**	30	23.75	29.3	32.6	29.7	Yes
DF14H-30P-1.25H(**)	538-0188-0-**	30	36.25	41.8	45.1	42.2	

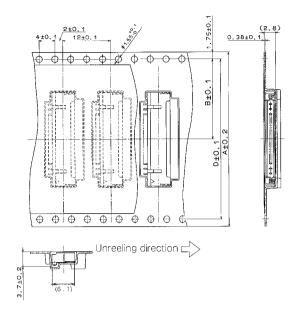
Note 1.Please order the embossed tape packaging product according to reel number. (1000 pcs./reel)

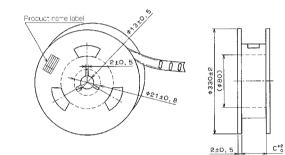
Embossed Carrier Tape Dimensions (JIS-C-0806)

■ 2 to 10 Contacts









					Unit. min
Inserted Connector	Number of Contacts	А	В	С	D
DF14/14A- 2P-1.25H	2	16	7.5	16.4	
DF14/14A- 3P-1.25H	3	16	7.5	16.4	
DF14/14A- 4P-1.25H	4	24	11.5	24.4	
DF14/14A- 5P-1.25H	5	24	11.5	24.4	
DF14/14A- 6P-1.25H	6	24	11.5	24.4	
DF14/14A- 7P-1.25H	7	24	11.5	24.4	
DF14/14A- 8P-1.25H	8	24	11.5	24.4	
DF14/14A- 9P-1.25H	9	24	11.5	24.4	
DF14/14A-10P-1.25H	10	24	11.5	24.4	
DF14/14A-15P-1.25H	15	44	20.2	44.4	40.4
DF14/14A-20P-1.25H	20	44	20.2	44.4	40.4
DF14/14A-25P-1.25H	25	56	26.2	56.4	52.4
DF14/14A-30P-1.25H	30	56	26.2	56.4	52.4
	DF14/14A- 2P-1.25H DF14/14A- 3P-1.25H DF14/14A- 4P-1.25H DF14/14A- 5P-1.25H DF14/14A- 6P-1.25H DF14/14A- 7P-1.25H DF14/14A- 7P-1.25H DF14/14A- 9P-1.25H DF14/14A-10P-1.25H DF14/14A-15P-1.25H DF14/14A-20P-1.25H	DF14/14A- 2P-1.25H 2 DF14/14A- 3P-1.25H 3 DF14/14A- 4P-1.25H 4 DF14/14A- 5P-1.25H 5 DF14/14A- 6P-1.25H 6 DF14/14A- 7P-1.25H 7 DF14/14A- 7P-1.25H 8 DF14/14A- 9P-1.25H 9 DF14/14A- 10 10 DF14/14A-10P-1.25H 15 DF14/14A-20P-1.25H 20 DF14/14A-25P-1.25H 25	DF14/14A- 2P-1.25H 2 16 DF14/14A- 3P-1.25H 3 16 DF14/14A- 4P-1.25H 4 24 DF14/14A- 5P-1.25H 5 24 DF14/14A- 6P-1.25H 6 24 DF14/14A- 7P-1.25H 7 24 DF14/14A- 8P-1.25H 8 24 DF14/14A- 7P-1.25H 7 24 DF14/14A- 8P-1.25H 8 24 DF14/14A- 9P-1.25H 9 24 DF14/14A- 10P-1.25H 10 24 DF14/14A-10P-1.25H 15 44 DF14/14A-20P-1.25H 20 44 DF14/14A-25P-1.25H 25 56	DF14/14A- 2P-1.25H 2 16 7.5 DF14/14A- 3P-1.25H 3 16 7.5 DF14/14A- 4P-1.25H 4 24 11.5 DF14/14A- 5P-1.25H 5 24 11.5 DF14/14A- 6P-1.25H 6 24 11.5 DF14/14A- 6P-1.25H 6 24 11.5 DF14/14A- 6P-1.25H 7 24 11.5 DF14/14A- 7P-1.25H 7 24 11.5 DF14/14A- 9P-1.25H 8 24 11.5 DF14/14A- 10P-1.25H 9 24 11.5 DF14/14A-10P-1.25H 10 24 11.5 DF14/14A-10P-1.25H 10 24 11.5 DF14/14A-10P-1.25H 15 44 20.2 DF14/14A-20P-1.25H 20 44 20.2 DF14/14A-25P-1.25H 25 56 26.2	DF14/14A- 2P-1.25H2167.516.4DF14/14A- 3P-1.25H3167.516.4DF14/14A- 4P-1.25H42411.524.4DF14/14A- 5P-1.25H52411.524.4DF14/14A- 6P-1.25H62411.524.4DF14/14A- 7P-1.25H62411.524.4DF14/14A- 8P-1.25H72411.524.4DF14/14A- 8P-1.25H82411.524.4DF14/14A- 8P-1.25H92411.524.4DF14/14A- 10P-1.25H102411.524.4DF14/14A-10P-1.25H154420.244.4DF14/14A-15P-1.25H204420.244.4DF14/14A-20P-1.25H255626.256.4

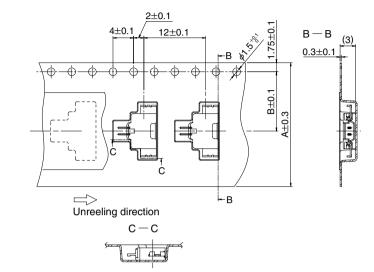
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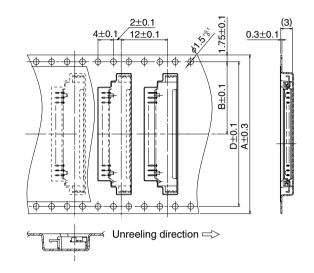
Embossed Carrier Tape Dimensions (JIS-C-0806)

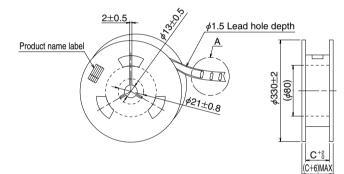
DF14H-*P- 1.25H

2 Contacts

■ 20, 30 Contacts







					Unit: mm
Inserted Connector	Number of Contacts	А	В	С	D
DF14H- 2P-1.25H	2	24	11.5	24.4	
DF14H- 20P-1.25H	20	44	20.2	44.4	40.4
DF14H- 30P-1.25H	30	56	26.2	56.4	52.4

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Precautions

1. Recommended Temperature Profile (SMT)			
	Temperature	10s max.	reflow condition
	250°C	Preheating area	150℃ for 60 to 120 seconds
	230 C	ax. 240/Soldering area	250 for 10 seconds max.
	2	20	220℃ min. 60 seconds max.
	200°C	60s max. Soldering	
		o 120s peating	
	100°C/	\	
		Time	
	that there is a retu	Reflow soldering are possible under the s n to normal temperature between the first profile indicates the board surface tem nnector terminals.	and second cycle.
2. Recommended Manual Soldering Condition (SMT)	Manual soldering: 290°C fo	2 seconds	
3. Recommended Screen Thickness (SMT)	0.15 to 0.2mm		
4. Board Sled (SMT)	Max 0.03mm at the conne	tor center area, based on both connector	edges
5. Cleaning Condition	Refer to Nylon Connector	Jse Hand book.	
6. Connection Condition	Refer to Nylon Connector	Jse Hand book.	
	■Be careful to carry out t	ne crimping operation according to the "C	rimping Condition Sheet"
	and "Crimping Quality Re	ference", because the crimping contact sty	/le is too small.
7. Precautions	Refer to Nylon Connector	Jse Hand book.	
8. Cautions	Be careful for an excess	sive scoop insertion/extraction, which w	vill cause damage to the
	product.		

Precautions

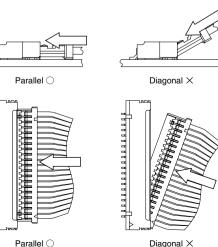
Precautions at Time of Insertion>

Handling

Method: Lightly grasping the base of the cable, press the connector with your finger and insert it.

Insertion Angle

[Caution] Do not insert at an angle of 30° or greater. Doing so will cause contact deformation or case damage. Method: Insert with the connector parallel.



Diagonal \times

<Precautions at Time of Disconnection>

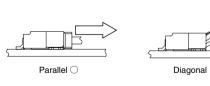
Handling

Method: Grasp the cable so that the entire cable is pulled evenly and pull it out.

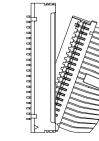
Angle of Removal

Parallel ()

[Caution] Do not remove at an angle of 30° or greater. Doing so will cause contact deformation or case damage. Method: Remove with the connector parallel.







Diagonal \times