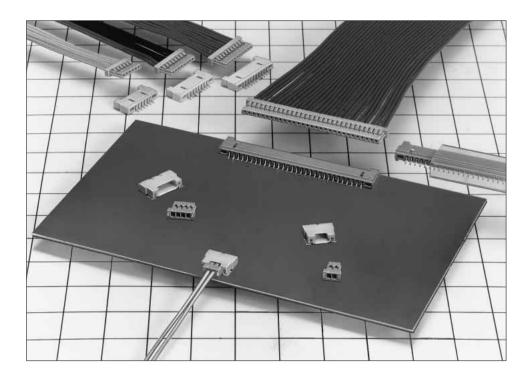
1.25mm Pitch Super Low profile Crimping Connector

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.

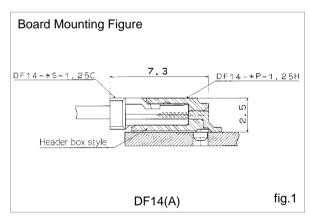
3. Four Wall Type Without Friction to Board by Socket

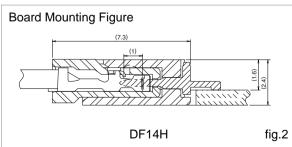
The header has the box structure to prevent from being twisted and has the perfect mis-insertion prevention method. Moreover the header has the wall on the board side and doesn't have any trouble resulted from the friction to board by socket.

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

Rating	Current rating	1A	Operating Temperature Range	-35 to +85°C (Note 1)	Storage Temperature Range	-10 to +60°C (Note 2)
	Voltage rating	150V AC	Operating Moisture Range	40 to 80%	Storage Moisture Range	40 to 70% (Note 2)

Item	Specification	Condition		
1. Insulation Resistance	500MΩ Min	100V DC		
2. Withstanding voltage	No flashover or insulation breakdown.	500V AC/1 minute		
3. Contact Resistance 30mΩ Max		100mA		
4. Insertion/Extraction Force MIN0.15N (15gf), MAX3N (300gf)		Measure at the square steel pin of 0.3±0.002mm		
5. Vibration No electrical discontinuity of 1μ s or more		Frequency: 10 to 55Hz, single amplitude of 0.75mm, 2 hours in each of the 3 directions.		
6. Humidity (Steady state)	Contact resistance : $30m\Omega$ Max Insulation resistance : $500M\Omega$ Min	96 hours at temperature of 40°C and humidity of 90% to 95%		
7. Tomporatura Cuala	Contact resistance : 30mΩ Max Insulation resistance : 500MΩ Min	(-25°C : 30 minutes→5 to 35°C : 10 minutes→85°C : 30 minutes→		
7. Temperature Cycle	Contact resistance . Somity max insulation resistance . Soomly min	5 to 35°C : 10 minutes) 5 cycles		
8. Durability (Mating/un-mating)	Contact resistance : 30mΩ Max	Tin plating : 30 cycles Gold plating : 50 cycles		
O. Basistanes to Coldering heat	No deformation of components offeeting parformance	Reflow : At the recommended temperature profile		
Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering : 300℃ 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.

■Material / Finish

Product Part		Material	Finish	Remarks
Crimping Socket Insulator Polyamic		Polyamide	Beige	UL94V-0
Crimping Contact for Socket	Contact	Phosphor Copper	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	

■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

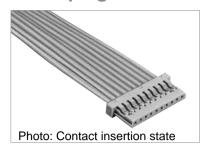
Series Name : DF14	Connector Type
Blank : Standard, with boss	S : Single row socket
A : on-board, without boss	P : Single row pin header
H : offset	6 Contact Pitch : 1.25mm
Number of Contacts : 2 to 10, 15, 20, 25, 30	Contact Type
	C : Crimping socket
	H : Right angle SMT

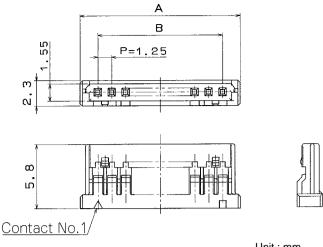
●Contact

DF14 - 2628 SCF A

Applicable cable size	Packaging Type
2628 : 26 to 28 AWG	SCF : Socket contact/reel
3032 : 30 to 32 AWG	Plating Type
	Blank : Tin plated
	A : Gold plated

■Crimping Socket





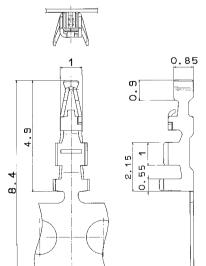
Unit: mm

Part No.	HRS No.	No. of Contacts	Α	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.

■Socket Crimping Contact

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



Applicable Cable (Tin plating Annealed copper wire)

Recommended Cable

Conductor Size (Wire construction)	Jacket Diameter
26 AWG (7 cores/0.16mm)	
28 AWG (7 cores/0.127mm)	10 5 4 15 14
30 AWG (7 cores/0.1mm)	<i>φ</i> 0.54 to <i>φ</i> 1mm
32 AWG (7 cores/0.08mm)	

Strip Length

UL1571

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

●Applicable Crimping Tool

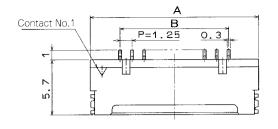
Type	Part No.	HRS No.	Applicable Contact
A 1" 1	AP105-DF14-2628S	901-4548-1	DF14-2628SCF/SCFA
Applicator	AP105-DF14-3032S	901-4544-0	DF14-3032SCF/SCFA
Press Main Unit	CM-105C	901-0001-0	
Manual Crimping Tool	DF14-2628/CR-HT	550-0261-1	DF14-2628SCF/SCFA
	DF14-3032/CR-HT	550-0262-4	DF14-3032SCF/SCFA

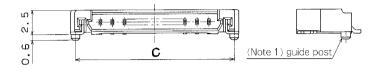
Note 1: If a trouble has occurred due to tools, which are not designated by Hirose, Hirose won't guarantee any product.

Note 2: Use the reel contact sequentially cut for manual crimping tool.

■Right Angle Pin Header (SMT)

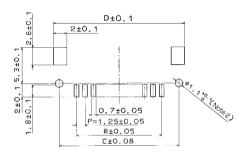






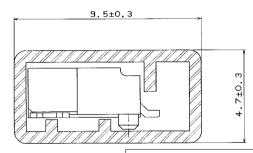
Note 1: "Without boss" indicates the style with no boss.

▶PCB mounting pattern



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

● Tube Packaging Dimensions



[Specific No.]-**,(**)

(24): Tin-copper plated tube packaging

(26): Tin-copper plated embossed tape packaging (54): Gold plated tube packaging

(54) . Oold plated tube packaging

(56) : Gold plated embossed tape packaging

Unit: mm

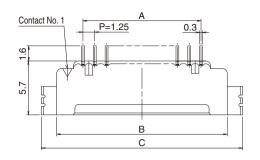
With boss		Without be	oss	No. of A B	_	_	_	Tube	Dalle	
Part No.	HRS No.	Part No.	HRS No.	Contacts	Α	ь	С	D	Packaging Quantity	RoHS
DF14- 2P-1.25H(**)	538-0021-4 **	DF14A- 2P-1.25H(**)	538-0033-3 **	2	7.45	1.25	6.45	8.05	66	
DF14- 3P-1.25H(**)	538-0022-7 **	DF14A- 3P-1.25H(**)	538-0034-6 **	3	8.70	2.50	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	
DF14-30P-1.25H(**)	538-0020-1 **	DF14A-30P-1.25H(**)	538-0045-2 **	30	42.45	36.25	41.45	43.05	11	

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)

■Right Angle Pin Header (Offset, SMT)

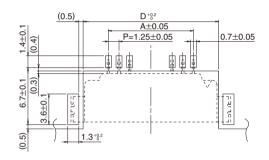








● PCB mounting pattern



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

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	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	

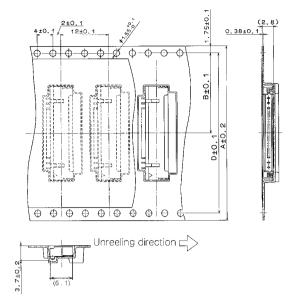
Note 1: Please order the embossed tape packaging product according to reel number. (1000 pcs./reel)

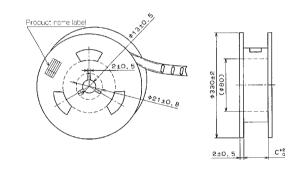
● Embossed Carrier Tape Dimensions (JIS-C-0806)

■ 2 to 10 Contacts

2±0.1 12±0.1 12±0.1 0.38±0.1 Unreeling direction

■ 15, 20, 25, 30 Contacts





Unit: mm

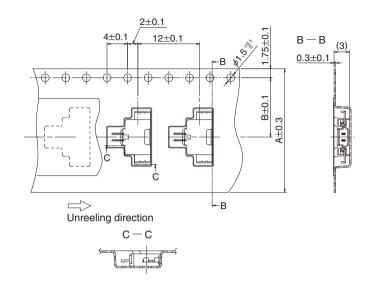
					O1111 . 111111
Inserted Connector	No. of Contacts	А	В	С	D
DF14/14A- 2P-1.25H	2	16	7.5	16.4	
DF14/14A- 3P-1.25H	3	16	7.5	16.4	
DF14/14A- 4P-1.25H	4	24	11.5	24.4	
DF14/14A- 5P-1.25H	5	24	11.5	24.4	
DF14/14A- 6P-1.25H	6	24	11.5	24.4	
DF14/14A- 7P-1.25H	7	24	11.5	24.4	
DF14/14A- 8P-1.25H	8	24	11.5	24.4	
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

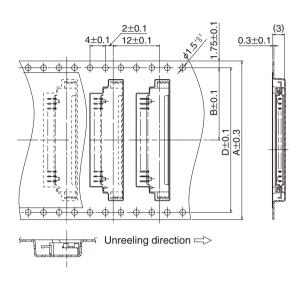
● Embossed Carrier Tape Dimensions (JIS-C-0806)

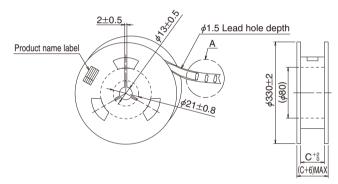
DF14H-*P- 1.25H

■ 2 Contacts

■ 20, 30 Contacts



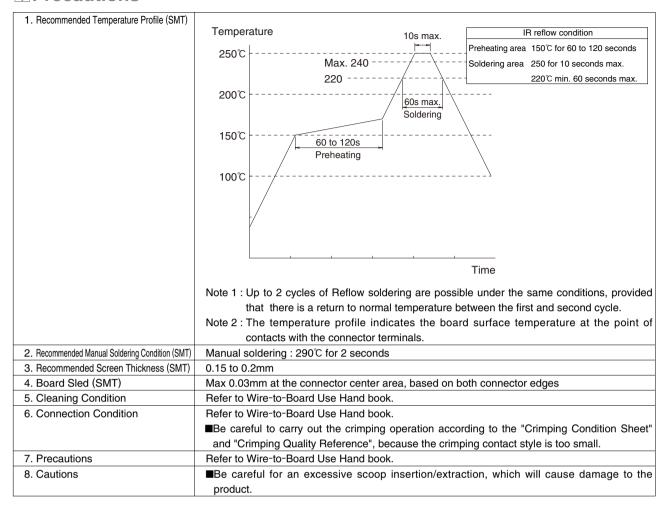




Unit: mm

Inserted Connector	No. of Contacts	Α	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

◆ Precautions



Precautions

(Precautions at Time of Insertion)

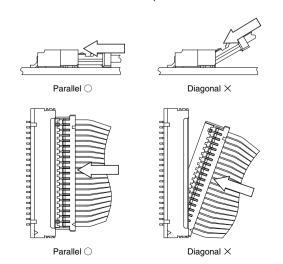
Handling

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.



(Precautions at Time of Disconnection)

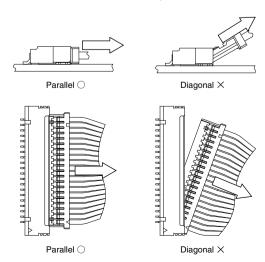
Handling

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

Angle of Removal

[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.



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