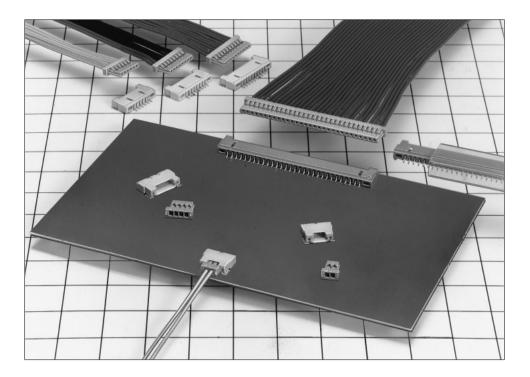
1.25mm Pitch Super Low profile Crimping Connector

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.

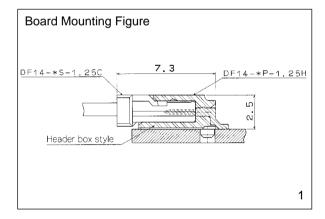
2. Correspond to Automatic Mounting

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 Rang	e-25 to +85°C (Note 1)	Storage Temperature Range	-10 to +60°C (Note 2)
reating	Voltage rating	150V AC	Operating Moisture Range	40 to 80%	Storage Moisture Range	40 to 70%

Item	Specification	Condition		
1. Insulation Resistance	500M ohms Min	100V DC		
2. Withstanding voltage	No flashover or insulation breakdown.	500V AC/1 minute		
3. Contact Resistance	30m ohms 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 1 μ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions		
6. Humidity (Steady state)	Contact resistance: 30m ohms Max Insulation resistance: 500M ohms Min	96 hours at temperature of 40°C and humidity of 90% to 95°C		
7 Tomporatura Cyala	Contact resistance: 30m ohms Max Insulation resistance: 500M ohms Min	(-25°C: 30 minutes→5 to 35°C: 10 minutes→85°C: 30 minutes→		
7. Temperature Cycle	Contact resistance. Som onins wax insulation resistance, Soom onins with	5 to 35°C: 10 minutes) 5 cycles		
8. Durability (Mating/un-mating)	Contact resistance: 30m ohms Max	Tin plating: 30 cycles Gold plating: 50 cycles		
O. Designation of the Coldering heat	No deformation of companyons affecting performance	Reflow: At the recommended temperature profile		
Resistance to Soldering heat	No deformation of components affecting performance.	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.

■Material

Product	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide Beige		UL-94V-0
Crimping Contact for Socket	Contact	Contact Phosphor Copper Tin-lead plated or gold plated		
	Insulator	Polyamide	Beige	UL-94V-0
Pin Header	Contact	Brass	Tin-lead plated or gold plated	
	Fitting	Phosphor copper	Tin-lead plated	

Note . Hirose's tin plating product takes measures against whisker.

■Ordering Information

●Connector

$$\frac{DF14}{\bullet} - \frac{*}{2} \frac{S}{\bullet} - \frac{1.25}{\bullet} \frac{C}{\bullet}$$

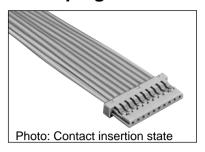
Series Name: DF14	♠ Contact Pitch: 1.25mm
Number of Contacts: 2 to 10, 15, 20, 25, 30	6 Contact Type
3 Connector Type	C: Crimping socket
S: Single row socket	H: Right angle SMT
P: Single row pin header	

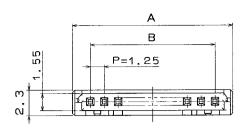
●Contact

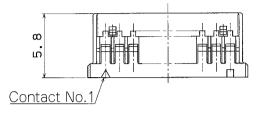
DF14 -
$$\frac{2628}{9} \frac{SCF}{9} \frac{A}{8}$$

Applicable cable size	Packaging Type
2628: AWG26 to 28	SCF: Socket contact/reel
3032: AWG30 to 32	Plating Type
	Blank: Tin plated
	A: Gold plated

■Crimping Socket









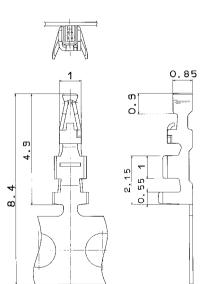
Unit: mm

Part Number	CL No.	Number of Contacts	Α	В
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
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

[Specific No.]-**,(**)
Blank: 1 bag 100 pcs.

Note 1.The quantity at the specific No. "Blank" is delivered per bag. If needed, please order the products per bag.

■Socket Crimping Contact



Part Number	CL No.	Packaging Type	Quantity	Finish
DF14-2628SCF	538-0001-7-**	Reel	40.000	Tin minted
DF14-3032SCF	538-0003-2-**	Reel	10,000	Tin plated

Applicable Cable (Tin plating Annealed copper wire)

■Recommended Cable

Conductor Size (Wire construction)	Jacket Diameter
AWG26(7 cores/0.16mm)	
AWG28(7 cores/0.127mm)	/0.54 to /4
AWG30(7 cores/0.1mm)	φ0.54 to φ1mm
AWG32(7 cores/0.08mm)	

● Strip	Length
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UL1571

1.2 to 1.9mm

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

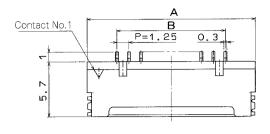
Applicable Crimping Tool

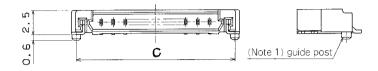
Туре	Part Number	CL No.	Applicable Contact
A = = 1; = = t = =	AP105-DF14-2628S	901-4548-1	DF14-2628SCF/SCFA
Applicator	AP105-DF14-3032S	901-4544-0	DF14-3032SCF/SCFA
Press Main Unit	CM-105	901-0005-4	
Manual Crimping Tool	DF14-2628/CR-HT	550-0261-1	DF14-2628SCF/SCFA
	DF14-3032/CR-HT	550-0262-4	DF14-3032SCF/SCFA

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)

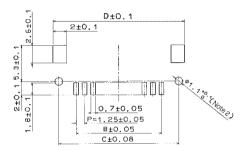






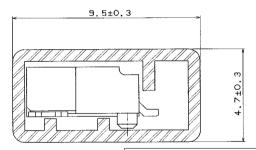
Note 1."Without boss" indicates the style with no boss.

●PCB mounting pattern



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

●Tube Packaging Dimensions



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

(20): Tin plated tube packaging

(21): Tin plated embossed tape packaging

(50): Gold plated tube packaging

(59): Gold plated embossed tape packaging

Unit: mm

With boss		Without boss		North an of Contracts		2		,	Tube Packaging
Part Number	CL No.	Part Number	CL No.	Number of Contacts	Α	В	С	D	Quantity
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
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)

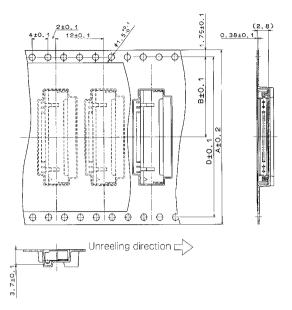
● Embossed Carrier Tape Dimensions

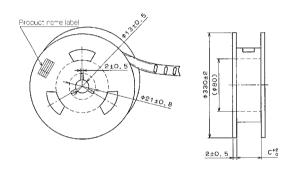
■ 2 to 10 Contacts

0.38±0.1

Unreeling direction

■ 15, 20, 25, 30 Contacts





Unit: mm

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

Precautions

