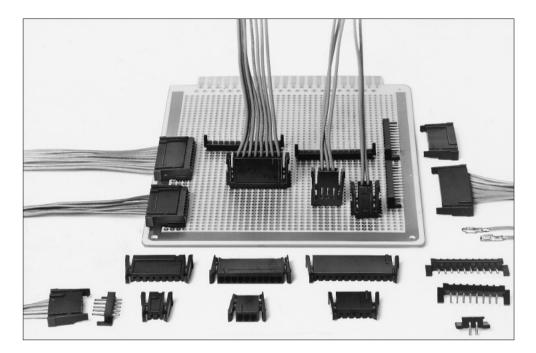
## 2.5mm Pitch Connector for Discrete Wire Connection

**HNC Series** 



### **■**Features

#### 1. Full Lock Mechanism

The connector is equipped with the full lock mechanism so as not be removed, unless locks are reset on both sides. This mechanism is activated effectively to prevent cable hooking or mis-insertion.

#### 2. Thin Type Connector

Mounting height when the connector is used at the right angle : 4.5mm

#### 3. Mechanism to Prevent Mis-insertion

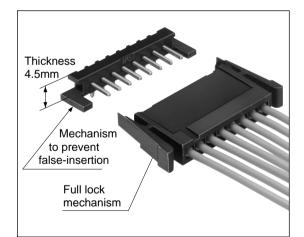
This thin type connector is equipped with the mechanism to prevent misinsertion.

#### 4. Tin Plating and Gold Plating Variation

Two kinds of tin plating and gold plating types are available, and can be chosen according to application. The tin plating is also set to a light operating touch.

## ■Applications

Various business equipment, financial terminals



## ■Product Specifications

Deting	Current rating (Note1) Voltage rating	AWG 22 : 3A AWG 24 : 3A AWG 26 : 2A	Operating Temperature Range Operating Moisture Range	-25 to +85°C (Note2) 40 to 80%
Rating		AWG 28 : 1A AWG 30 : 0.5A	Storage Temperature Range	-10 to +60°C (Note3)
		250V AC	Storage Moisture Range	40 to 70% (Note3)

Item	Specification	Condition		
1. Insulation Resistance	1000M ohms min.	500V DC		
2. Withstanding voltage	No flashover or insulation breakdown.	1000V AC/1 minute		
3. Contact Resistance	30m ohms Max	1A		
4. Insertor/Extraction Force	0.4N (40gf) min.,4.4N (450gf) max.	Measure at the square steel pin of 0.635±0.002mm		
5. Vibration	No electrical discontinuity of $1\mu$ 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: 10m ohms max.Insulation resistance: 1000M ohms min.	n. 96 hours at temperature of 40°C and humidity of 90% to 95%		
7 Tomporatura Cuala	Contact resistance: 10m ohms max:Insulation resistance: 1000M ohms min.	(-25℃: 30 minutes → 5 to 35℃: 10 minutes		
7. Temperature Cycle		85°C: 30 minutes → 5 to 35°C: 10 minutes) 5 cycles		
Q. Durchility (Mating/up mating)	Contact registeres: 20m shine may	Tin plating : 30 cycles		
8. Durability (Mating/un-mating)	Contact resistance: 20m ohms max.	Gold plating : 50 cycles		
O Registered to Coldering heat	No deformation of companying offecting performance	Flow: 250℃ for 5 seconds		
9. Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 300°C for 2 seconds		

Note 1: The rated current will be changed according to cable sizes for use. The header rating only t is 3A. Note 2: Includes temperature rise caused by 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.

## ■Material

Product	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide	Black	UL94V-0
Contact Contact F		Phosphor Copper	Tin plated or gold plated	
Pin Header	Insulator	Polyamide	Black	UL94V-0
Pili Header	Contact	Brass	Tin plated or gold plated	

## Ordering Information

#### **•**Crimping Plug

# $\frac{\text{HNC}}{\bullet} \frac{2}{\bullet} - \frac{2.5}{\bullet} \frac{\text{P}}{\bullet} - \frac{*}{\bullet} \frac{\text{DSL}}{\bullet}$

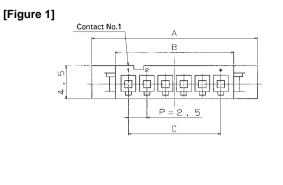
<ol> <li>Series Name</li> </ol>	: HNC	S Number of Contacts : 2 to 16, 18, 20
<ol> <li>Series No.</li> </ol>	: 2, 1	6 Contact Type
Contact Pitch	: 2.5mm	None : Crimping socket
Connector Type		DS : Straight
S : Socket		DSL : Right angle
P : Pin Header		

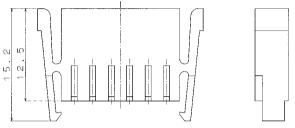
#### Contact

HNC2 - 2.5S	- <u>C</u> - <u>A</u>
0	0 0
Type: 2.5mm pitch socket	Applicable cable size
Packaging Type	A : AWG22 to 26
C : Reel	B : AWG26 to 30
PC : Bag	

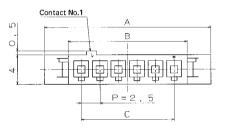
## ■Crimping Socket

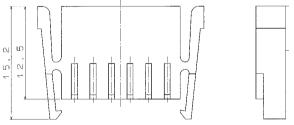






[Figure 2]





. 12.5							
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Unit. mini	U	nit:	mm
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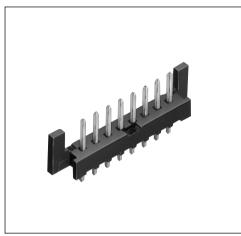
[Specific No.] -\* \*, (\* \*) Blank :Bag packaging

						Unit. min
Part Number CL No. N		Number of Contacts	А	В	С	Dimensions
HNC2-2.5S- 2(**)	218-0011-1-**	2	12.4	6	2.5	
HNC2-2.5S- 3(**)	218-0022-8-**	3	14.9	8.5	5	
HNC2-2.5S- 4(**)	218-0039-0-**	4	17.4	11	7.5	
HNC2-2.5S- 5(**)	218-0027-1-**	5	19.9	13.5	10	Eiseren 4
HNC2-2.5S- 6(**)	218-0042-5-**	6	22.4	16	12.5	Figure 1
HNC2-2.5S- 7(**)	218-0030-6-**	7	24.9	18.5	15	
HNC2-2.5S- 8(**)	218-0014-0-**	8	27.4	21	17.5	
HNC2-2.5S-10(**)	218-0017-8-**	10	32.4	26	22.5	
HNC1-2.5S-12(**)	218-0008-7-**	12	37	31	27.5	Figure 2
HNC2-2.5S-15(**)	218-0045-3-**	15	44.9	38.5	35	Figure 1
Natadi Dianan andar a		400		1		

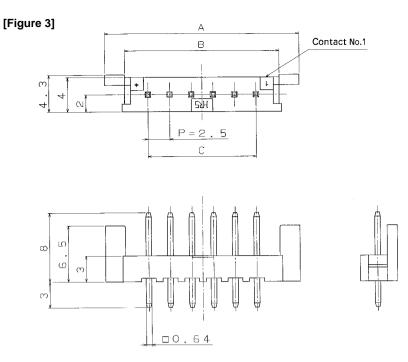
Note1: Please order a quantity multiplied by 100 pcs. (Not per bag, but per pcs.)

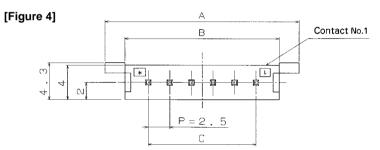
Note2: The series name of 12 contacts connector is HNC1, and partially will be changed in the style.

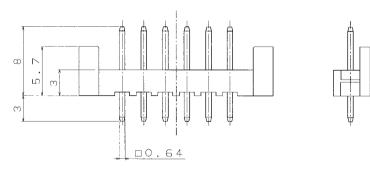
## Straight Pin Header



●Board Through-hole Diameter: ø1.1+8.1





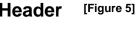


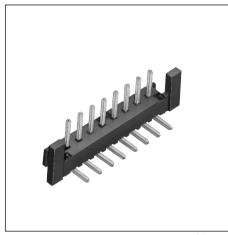
U	nit	mm
0		

Part Number	CL No.	Number of Contacts	cts A B	ВС		Specif	ic No.	Dimensions
Part Number	CL NO.	Number of Contacts	A	в	C	Tin plating	Gold plating	Dimensions
HNC2-2.5P- 2DS(**)	218-0012-4-**	2	12.5	7.8	2.5	Blank	02	
HNC2-2.5P- 3DS(**)	218-0023-0-**	3	15	10.4	5	Blank	02	
HNC2-2.5P- 4DS(**)	218-0040-0-**	4	17.5	12.9	7.5	Blank	01	
HNC2-2.5P- 5DS(**)	218-0028-4-**	5	20	15.4	10	Blank	02	Figure 2
HNC2-2.5P- 6DS(**)	218-0043-8-**	6	22.5	17.9	12.5	Blank	01	Figure 3
HNC2-2.5P- 7DS(**)	218-0031-9-**	7	25	20.4	15	Blank	02	
HNC2-2.5P- 8DS(**)	218-0015-2-**	8	27.5	22.8	17.5	Blank	02	
HNC2-2.5P-10DS(**)	218-0018-0-**	10	32.5	27.8	22.5	Blank	02	
HNC1-2.5P-12DS(**)	218-0009-0-**	12	35.5	32.8	27.5	Blank	02	Figure 4
HNC2-2.5P-15DS(**)	218-0046-6-**	15	45	40.4	35	Blank	01	Figure 3

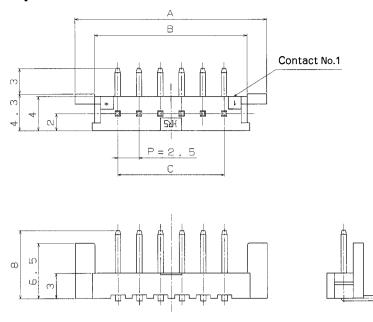
Note1: Please order a quantity multiplied by 100 pcs. (Not per bag, but per piece) Note2: The series name of the 12 contacts connector is HNC1 and the style will be partially changed.

#### ■Right Angle Pin Header [F

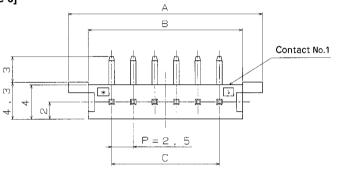


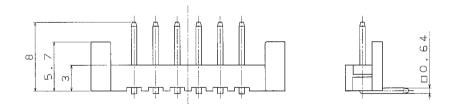


●Board Through-hole Diameter: ø1.1\*8.1









Unit: mm

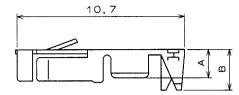
0.64

Part Number	CL No.	Number of Contacts	٨	АВС		вс		Specif	ic No.	Dimensions
Part Number	CL NO.	Number of Contacts	A	Б		Tin plating	Gold plating	Dimensions		
HNC2-2.5P- 2DSL(**)	218-0013-7-**	2	12.5	7.8	2.5	Blank	02			
HNC2-2.5P- 3DSL(**)	218-0024-3-**	3	15	10.4	5	Blank	02			
HNC2-2.5P- 4DSL(**)	218-0041-2-**	4	17.5	12.9	7.5	Blank	01			
HNC2-2.5P- 5DSL(**)	218-0029-7-**	5	20	15.4	10	Blank	02	Figuro F		
HNC2-2.5P- 6DSL(**)	218-0044-0-**	6	22.5	17.9	12.5	Blank	01	Figure 5		
HNC2-2.5P- 7DSL(**)	218-0032-1-**	7	25	20.4	15	Blank	02			
HNC2-2.5P- 8DSL(**)	218-0016-5-**	8	27.5	22.8	17.5	Blank	02			
HNC2-2.5P-10DSL(**)	218-0019-3-**	10	32.5	27.8	22.5	Blank	02			
HNC1-2.5P-12DSL(**)	218-0010-9-**	12	35.5	32.8	27.5	Blank	02	Figure 6		
HNC2-2.5P-15DSL(**)	218-0047-9-**	15	45	40.4	35	Blank	01	Figure 5		

Note1: Please order a quantity multiplied by 100 pcs. (Not per bag, but per piece)

Note2: The series name of the 12 contacts connector is HNC1 and the style will be partially changed.

## **Crimping Contact for Socket**



#### ●Applicable Cable (Tin Plated Annealing Copper Wire)

Conductor Size (Contact wire construction)	Jacket Diameter
AWG 22 (17pieces/0.16mm)	
AWG 24 (11pieces/0.16mm)	φ1.35 to φ1.7mm
AWG 26 (7pieces/0.16mm)	
AWG 28 (7pieces/0.127mm)	11 0 to 11 25mm
AWG 30 ( 7pieces/0.1mm)	φ1.0 to φ1.35mm

#### •Recommended Cable UL1061, UL1007

•Strip Length 2.8 to 3.3mm

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

Unit: mm

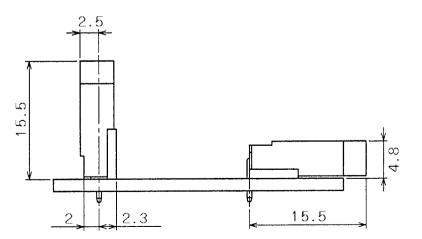
Part Number	CL No.	Conductor	Jacket	A	в	Packaging	Quantity	Specific No.	
		Size	Diameter			Туре		Tin plating	Gold plating
HNC-2.5S-D-A(**)	218-0037-5-**	AWG 22 to 26	¢1.35 to 1.7mm	1.8	2.6	Bag	100	- Blank	02
HNC-2.5S-C-A(**)	218-0021-5-**			1.8	2.6	Reel	10,000		
HNC-2.5S-D-B(**)	218-0038-8-**	AWG 26 to 30	¢1.0 to 1.35mm	1.5	1.7	Bag	100		
HNC-2.5S-C-B(**)	218-0020-2-**			1.5	1.7	Reel	10,000		

## ■Applicable Crimping Tool

Туре	Part Number	CL No.	Applicable Contact
Applicator	AP105-HNC	901-4502-0	HNC-2.5S-C-A/HNC-2.5S-C-B
Press Main Unit	CM105	901-0005-4	
Manual Crimping Tool	TC-HNC-B	250-0005-7	HNC-2.5S-D-B
	TC-HNC-A	250-0006-0	HNC-2.5S-D-A
Extraction Tool	DF1-C-PO	550-0177-7	HNC-2.5S-C-A/HNC-2.5S-C-B

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

## ■Application Pattern



## Precautions

1. Recommended Soldering Condition	Flow: 250°C for 3 seconds					
	Manual soldering: 290°C for 2 seconds					
2. Cleaning Condition	Refer to Nylon Connector Use Hand book.					
3. Connection Condition	Refer to Nylon Connector Use Hand book.					
	Extracting Crimping Contact					
	To extract the crimping contact from the socket housing, observe the following extraction procedures.					
	■Extraction Tool Tool Name: DF-C-PO(550-0177-7) can be used.					
	(1) Extraction Method					
	As shown below in the figure, slightly pull the cable in the state where the DF1 extraction					
	tool tip or the 0.5 to 0.7mm board has been inserted in the lance fixed slot, the contact can be easily removed.					
	Note: If the lance is pressed excessively, the contact body may be deformed, which could					
	result in contact failure. Therefore, be careful not to press the lance excessively.					
	Lance area					
	(2) How to Adjust the Lance (Raise)					
	To re-insert the terminal which is removed from the socket housing, use a sharp edge					
	blade to raise the lance as shown below in the illustration, and then insert the contact.					
	Note: Lance regeneration is effective only once.					