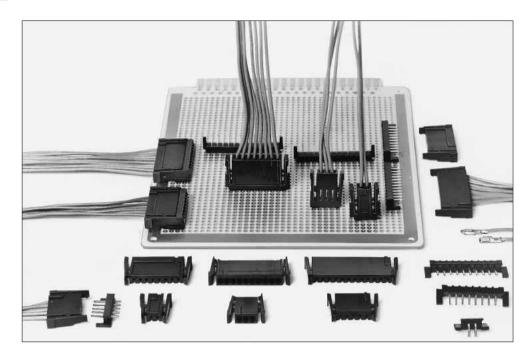
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at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

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 extraction by cable hooking or other causes.

2. Thin Type Connector

Mounting height when the connector is used at the right angle : 4.8mm

3. Mechanism to Prevent Mis-insertion

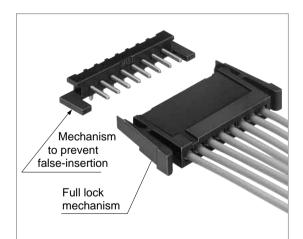
This thin type connector is equipped with the mechanism to prevent misinsertion.

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



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■Product Specifications

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

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	10m 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 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 (Steady state)	Contact resistance: 10m ohms max.Insulation resistance: 1000M ohms min.	96 hours at temperature of $40\pm 2^{\circ}$ and humidity of 90% to 95%		
7. Temperature Cycle	Contact resistance: 10m ohms max:Insulation resistance: 1000M ohms min.	(-25°C: 30 minutes → 5 to 35°C: 10 minutes 85°C: 30 minutes → 5 to 35°C: 10 minutes) 5 cycles		
8. Durability (Mating/un-mating)	Contact resistance: 20m ohms max.	Tin plating : 30 cycles Gold plating : 50 cycles		
9. Resistance to Soldering heat No deformation of components affecting performance.		Flow: 250°C for 5 seconds 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.

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.

Material

Product	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide	Black	UL94V-2
Contact	Contact	Phosphor Bronze	Tin plated or gold plated	
Pin Header	Insulator	Polyamide	Black	UL94V-2
	Contact	Brass	Tin plated or gold plated	

Ordering Information

Crimping Plug

$\frac{\text{HNC}}{2} = \frac{2}{2} - \frac{2.5}{6} = \frac{1}{2} - \frac{1}{6} = \frac{1}{6}$

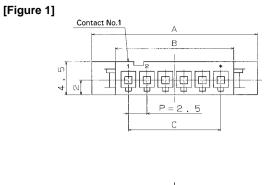
	0			•	
Series Name	: HNC	6 Number of the second seco	of Conta	acts : 2 to	8,10,12,15
2 Series No.	: 2, 1	6 Contac	t Туре	;	
Contact Pitch	: 2.5mm	None	: Crir	mping s	ocket
Connector Type		DS	: Stra	aight	
S : Socket		DSL	: Rig	ht angle	e
P : Pin Header					

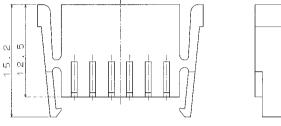
0	2 3
Type: 2.5mm pitch socket	Applicable cable size
Packaging Type	A : AWG22 to 26
C : Reel	B : AWG26 to 30
D : Bag	

HNC - 2.5S - C - A

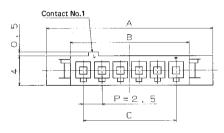
Crimping Socket

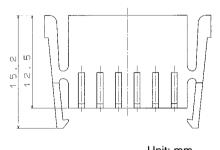












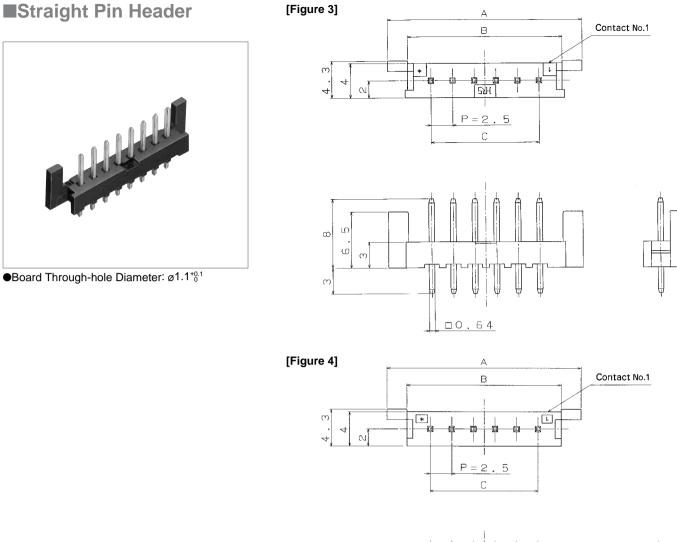


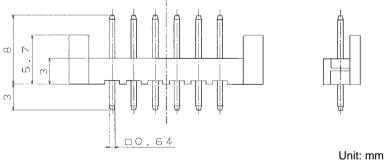
Unit: mm							
RoHS	Dimensions	С	В	А	Number of Contacts	CL No.	Part Number
		2.5	6	12.4	2	218-0011-1	HNC2-2.5S- 2
		5	8.5	14.9	3	218-0022-8	HNC2-2.5S- 3
		7.5	11	17.4	4	218-0039-0	HNC2-2.5S- 4
	Figure 1	10	13.5	19.9	5	218-0027-1	HNC2-2.5S- 5
Yes		12.5	16	22.4	6	218-0042-5	HNC2-2.5S- 6
		15	18.5	24.9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

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.

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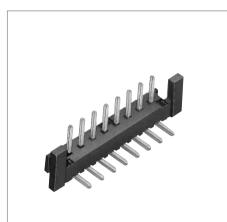
Part Number	CL No.	Number of Contacts	А	в	с	Specif	ic No.	Dimensions	RoHS
Fait Nullibei			Tin plating	Gold plating	Dimensions				
HNC2-2.5P- 2DS(**)	218-0012-4-**	2	12.5	7.8	2.5	55	02		
HNC2-2.5P- 3DS(**)	218-0023-0-**	3	15	10.4	5	55	02		
HNC2-2.5P- 4DS(**)	218-0040-0-**	4	17.5	12.9	7.5	55	01		
HNC2-2.5P- 5DS(**)	218-0028-4-**	5	20	15.4	10	55	02	F 12 1 0	
HNC2-2.5P- 6DS(**)	218-0043-8-**	6	22.5	17.9	12.5	55	01	Figure 3	Vaa
HNC2-2.5P- 7DS(**)	218-0031-9-**	7	25	20.4	15	55	02		Yes
HNC2-2.5P- 8DS(**)	218-0015-2-**	8	27.5	22.8	17.5	55	02		
HNC2-2.5P-10DS(**)	218-0018-0-**	10	32.5	27.8	22.5	55	02		
HNC1-2.5P-12DS(**)	218-0009-0-**	12	35.5	32.8	27.5	55	02	Figure 4	
HNC2-2.5P-15DS(**)	218-0046-6-**	15	45	40.4	35	55	01	Figure 3	

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

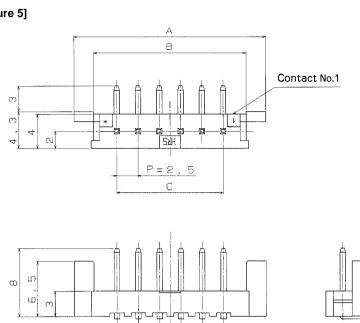
Note2: The series name of the 12 contacts connector is HNC1 and the style will be partially changed.

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Right Angle Pin Header [Figure 5]

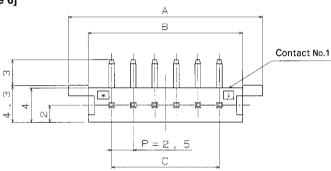


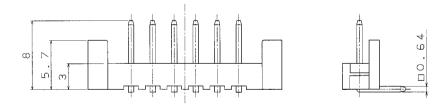
●Board Through-hole Diameter: ø1.1^{+0.1}





[Figure 6]





Unit: mm

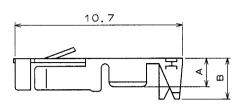
Part Number	Number CL No. Number of Contacts A B C		Specif	ic No.	Dimensions	RoHS			
Part Number	CL NO.	Number of Contacts	S A B C		Tin plating	Gold plating	Dimensions	RUNS	
HNC2-2.5P- 2DSL(**)	218-0013-7-**	2	12.5	7.8	2.5	55	02		
HNC2-2.5P- 3DSL(**)	218-0024-3-**	3	15	10.4	5	55	02		
HNC2-2.5P- 4DSL(**)	218-0041-2-**	4	17.5	12.9	7.5	55	01		
HNC2-2.5P- 5DSL(**)	218-0029-7-**	5	20	15.4	10	55	02	- Figure 5	
HNC2-2.5P- 6DSL(**)	218-0044-0-**	6	22.5	17.9	12.5	55	01		Yes
HNC2-2.5P- 7DSL(**)	218-0032-1-**	7	25	20.4	15	55	02		Tes
HNC2-2.5P- 8DSL(**)	218-0016-5-**	8	27.5	22.8	17.5	55	02		
HNC2-2.5P-10DSL(**)	218-0019-3-**	10	32.5	27.8	22.5	55	02		
HNC1-2.5P-12DSL(**)	218-0010-9-**	12	35.5	32.8	27.5	55	02	Figure 6	
HNC2-2.5P-15DSL(**)	218-0047-9-**	15	45	40.4	35	55	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.

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Crimping Contact for Socket



Applicable	Cable (Tir	n 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)	41 0 to 41 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

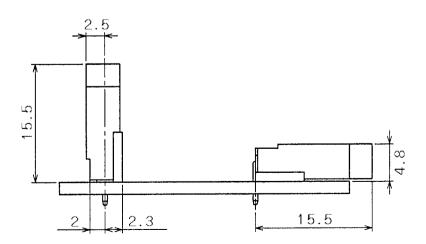
									0	/inc. 111111		
Part Number	CL No.	Conductor	Jacket	А	В	Packaging	Quantity	Speci	fic No.	RoHS		
Fait Nullibei	OE NO.	Size	Diameter	Λ		Туре	Quantity	Tin plating	Gold plating	T(0) 10		
HNC-2.5S-D-A(**)	218-0037-5-**			AVAIO 00 40 00	WG 22 to 26 Ø1.35 to 1.7mm	1.8	2.6	Bag	100			
HNC-2.5S-C-A(**)	218-0021-5-**	AWG 22 10 20	φ1.35 t0 1.7 mm	1.8	2.6	Reel	10,000	45	00	Vaa		
HNC-2.5S-D-B(**)	218-0038-8-**		11 0 to 1 25mm	1.5	1.7	Bag	100	15	02	Yes		
HNC-2.5S-C-B(**)	218-0020-2-**	AWG 26 10 30	¢1.0 to 1.35mm	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(**)		
Manual Crimping Tool	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



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Precautions

1. Recommended Soldering Condition	Flow: 250°C for 5 seconds
	Manual soldering: 300°C for 2 seconds
2. Cleaning Condition	Refer to Nylon Connector Use Hand book.
3. Connection Condition	Refer to Nylon Connector Use Hand book.