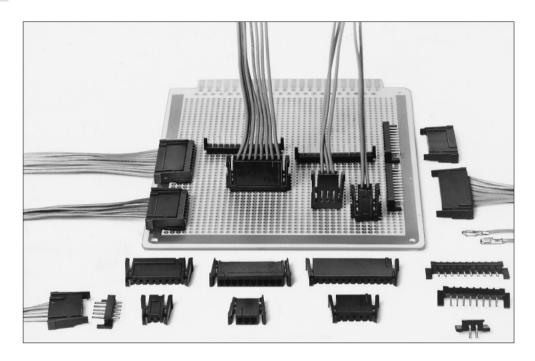
2.5mm Pitch Connector for Discrete Wire Connection

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

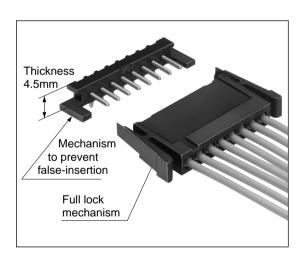
This thin type connector is equipped with the mechanism to prevent misinsertion.

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

Dating	Current rating	AWG 22 : 3A AWG 24 : 3A AWG 26 : 2A	Operating Temperature Range Operating Moisture Range	-25 to +85°C (Note2) 40 to 80%
Raung	Rating (Note1)	AWG 28:1A	Storage Temperature Range	-10 to +60°C (Note3)
		AWG 30:0.5A	Storage Moisture Range	40 to 70% (Note3)
	Voltage rating	250V AC	Storage Moisture Range	40 to 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	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 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: 10m ohms max.Insulation resistance: 1000M ohms min.	96 hours at temperature of 40°C 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
7. Temperature Cycle	Contact resistance. Torn onins max.insulation resistance. Toolow onins min.	85°C: 30 minutes → 5 to 35°C: 10 minutes) 5 cycles
O. Durchility (Mating/up mating)	Contact resistance: 20m abms may	Tin plating : 30 cycles
6. Durability (Mating/un-mating)	Contact resistance: 20m ohms max.	Gold plating : 50 cycles
O. Decistance to Coldering heat	No deformation of companyon affecting payformana	Flow: 250℃ for 5 seconds
Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 300℃ 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	Phosphor Copper	Tin plated or gold plated	
Pin Header	Insulator	Polyamide	Black	UL94V-0
Pili neadel	Contact	Brass	Tin plated or gold plated	

■Ordering Information

Crimping Plug

$$\frac{HNC}{0} \frac{2}{0} - \frac{2.5}{0} \frac{P}{0} - \frac{*}{0} \frac{DSL}{0}$$

Series Name	: HNC	5 Number of Contacts : 2 to 16, 18, 20
Series No.	: 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

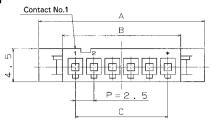
HNC2 -
$$\frac{2.5S}{9}$$
 - $\frac{C}{9}$ - $\frac{A}{9}$

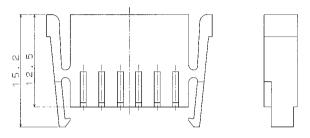
Type: 2.5mm pitch socket	3 Applicable cable size
Packaging Type	A : AWG22 to 26
C : Reel	B : AWG26 to 30
PC : Bag	
PC . bag	

■Crimping Socket

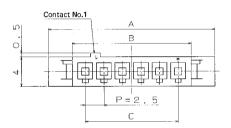


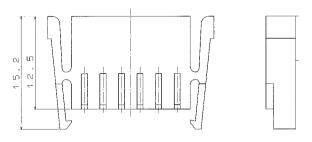
[Figure 1]





[Figure 2]



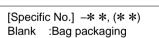


Unit: mm

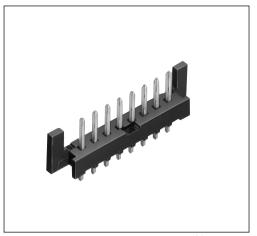
						Offic. Hilli
Part Number	CL No.	Number of Contacts	Α	В	С	Dimensions
HNC2-2.5S- 2(**)	218-0011-1-**	2	12.4	6	2.5	
HNC2-2.5S- 3(**)	218-0022-8-**	3	14.9	8.5	5	
HNC2-2.5S- 4(**)	218-0039-0-**	4	17.4	11	7.5	
HNC2-2.5S- 5(**)	218-0027-1-**	5	19.9	13.5	10	Figure 4
HNC2-2.5S- 6(**)	218-0042-5-**	6	22.4	16	12.5	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

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

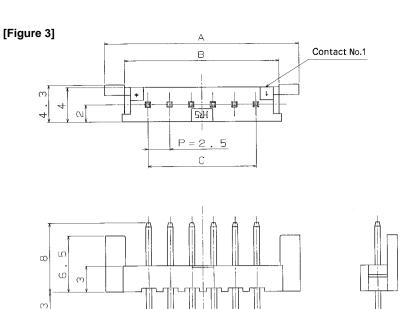
Note2: The series name of 12 contacts connector is HNC1, and partially will be changed in the style.

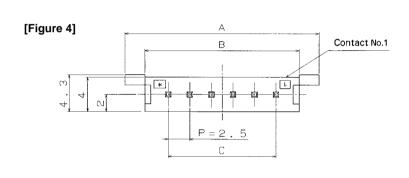


■Straight Pin Header

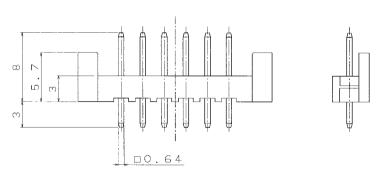


●Board Through-hole Diameter: ø1.1⁺8.1





□0.64



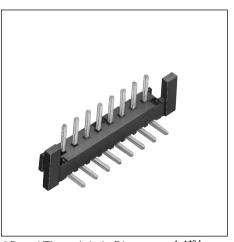
Unit: mm

Part Number	CL No.	Number of Contacts	A	В	С	Specif	Dimensions	
Part Number	CL NO.	Number of Contacts	A	Ь	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

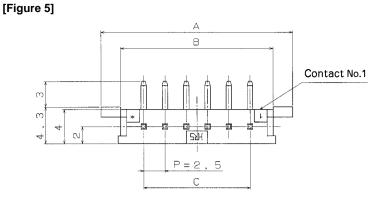
Note1: Please order a quantity multiplied by 100 pcs. (Not per bag, but per piece)

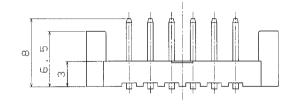
Note2: The series name of the 12 contacts connector is HNC1 and the style will be partially changed.

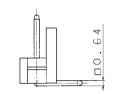
■Right Angle Pin Header

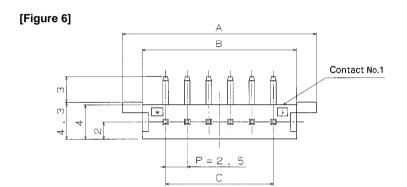


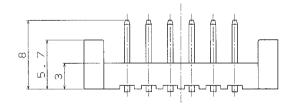
●Board Through-hole Diameter: ø1.1⁺8.1

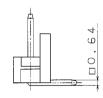












Unit: mm

Do d Novel or	OL N.	N all a company	_		_	Specific No.		D:
Part Number	CL No.	Number of Contacts	Α	В	С	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	Figure 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

10.7

● Applicable Cable (Tin Plated Annealing Copper Wire)

Conductor Size (Contact wire construction)	Jacket Diameter
AWG 22 (17pieces/0.16mm)	
AWG 24 (11pieces/0.16mm)	<i>φ</i> 1.35 to <i>φ</i> 1.7mm
AWG 26 (7pieces/0.16mm)	
AWG 28 (7pieces/0.127mm)	/4 O to /4 OFman
AWG 30 (7pieces/0.1mm)	φ1.0 to φ1.35mm

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

●Recommended Cable

UL1061, UL1007

●Strip Length 2.8 to 3.3mm

Unit: mm

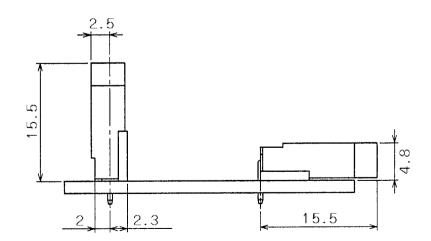
Dort Number CL No		Conductor Jacket		۸	В	Packaging	Quantity	Specific No.	
Part Number	CL No.	Size Diameter	A	В	Туре	Quantity	Tin plating	Gold plating	
HNC-2.5S-D-A(**)	218-0037-5-**	AMC 22 to 20	φ1.35 to 1.7mm	1.8	2.6	Bag	100		
HNC-2.5S-C-A(**)	218-0021-5-**	AVVG 22 to 26		1.8	2.6	Reel	10,000	Dlank	00
HNC-2.5S-D-B(**)	218-0038-8-**	AVA/O 00 to 00	φ1.0 to 1.35mm	1.5	1.7	Bag	100	Blank	02
HNC-2.5S-C-B(**)	218-0020-2-**	AVVG 26 10 30		1.5	1.7	Reel	10,000		

■Applicable Crimping Tool

Type	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 Origania a Tabl	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



●Precautions

Recommended Soldering Condition	Flow: 250°C for 3 seconds					
	Manual soldering: 290℃ 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 cabe 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 Female contact extraction direction					
	(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.					
	0.5-1 mm					