

# HIF3G SERIES 2.54mm (.100'') CENTERS STRIP CONNECTORS

## General

HIF3G series are single line connectors with 2.54mm (.100'') contact spacing suitable for interconnection between PC boards. The available number of contacts of socket connectors are; 5, 10, 15, 20, 25, 30, 35, 40, 45, and 50. Plug connectors, however, are supplied with 50 pin only

which can be freely broken off at required number of contacts. Mounting on PC board can be done by two types of Plug, which are straight dip and right angle dip. Socket connectors use crimp type contact which can offer wide applications to industrial and commercial use.



## Features

- (1) Crimp type socket contact assures easy and reliable wiring.
- (2) 2.54mm (.100'') contact spacing allows compact and high density design.
- (3) Lower cost is given by mass production.
- (4) Glass-reinforced polyester molding material provides for strong enough resistance for use of chemicals, organic solvent, lubricant, etc...
- (5) Plug molding design allows to break off at any part of 50 pin single line to make suitable coupling with socket.

## Material and Finish

Insulator : Glass-reinforced polyester (UL 94V-0)  
Black  
Pin contact : Brass + Gold plating  
Socket contact : Phosphor bronze + Gold plating

## Performance

Contact resistance : 15mΩ or less at DC100mA  
Insulation resistance : 1,000MΩ or more at DC500V  
Withstand voltage : AC650V rms, one minute  
Current rating : 3 amps  
Insertion and withdrawal force : 60 – 400 grs at 0.635mm<sup>±0.002</sup> (.025'') steel gauge  
Humidity : 1000MΩ MIN. at 40±2°C and 90–95% for 96 hour  
Contact durability : 1.5mV MAX. at DC100mA after 500 time insertion  
Dry Circuit : DC0.1μV MAX.  
Temperature cycling : -55 to +125°C

### Ordering Information of Plug and Socket Housing

HIF3G - 50 P - 2.54 DS

Series No. \_\_\_\_\_

No. of contracts \_\_\_\_\_

Pin configuration \_\_\_\_\_  
 P: Pin contact  
 S: Socket contact

Contact spacing \_\_\_\_\_

Terminal configuration \_\_\_\_\_  
 DS: Right angle dip soldering plug  
 DSA: Straight dip soldering plug  
 C: Crimp type contact

### Ordering Information of Crimp Socket Contact

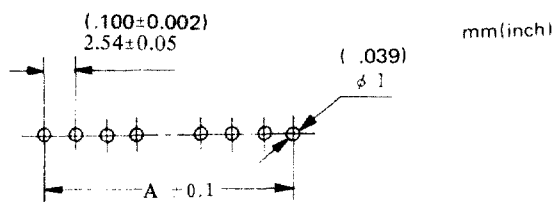
HIF3 - 2226 SC

Series No. \_\_\_\_\_

Applicable wire \_\_\_\_\_  
 2226: AWG22-26  
 2428: AWG24-28

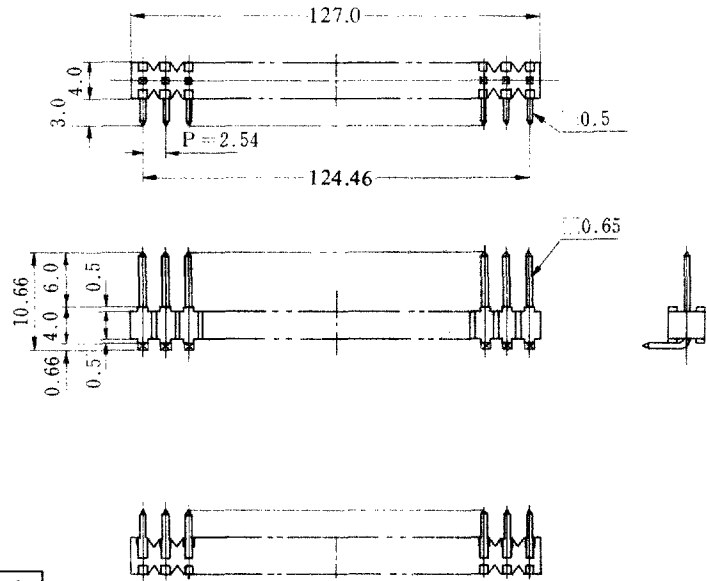
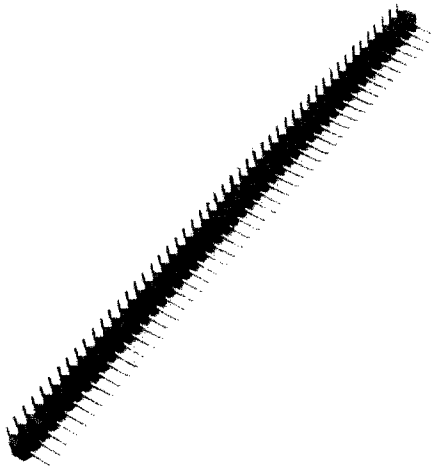
Type of contact \_\_\_\_\_  
 SC: Bulk contact (100 pins per bag)      SCA: Bulk contact, Selective gold plated (100 pins per bag)  
 SCF: Chain contact (10,000 pins per role)      SCFA: Chain contact, Selective gold plated (10,000 pin per role)

### Recommended mounting hole pattern



No. of pin	5	10	15	20	25	30	35	40	45	50
A	10.16 (.400)	22.86 (.900)	35.56 (1.400)	48.26 (1.900)	60.96 (2.400)	73.66 (2.900)	86.36 (3.400)	99.06 (3.900)	111.76 (4.400)	124.46 (4.900)

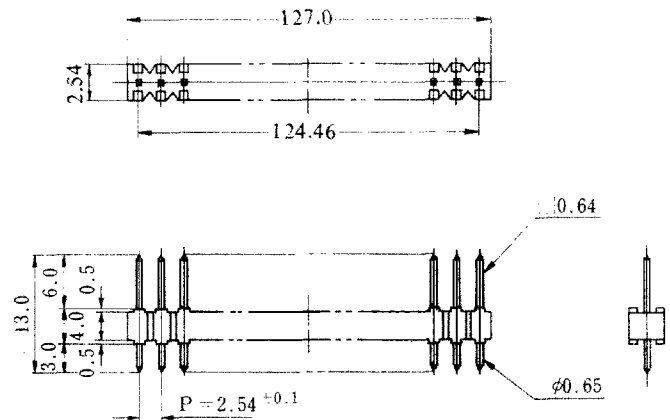
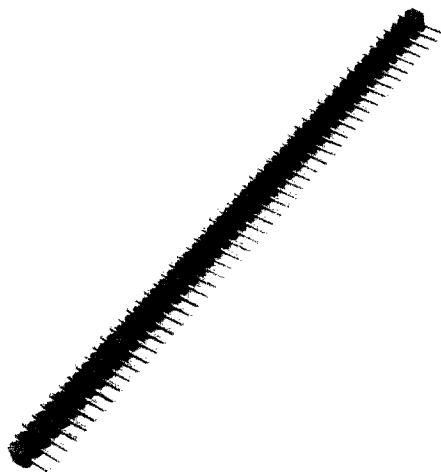
### Right Angle Dip Soldering Type Plug



HIF3G-50P-2.54DS	No. of pin
	50

HIF3G-50P-2.54DS

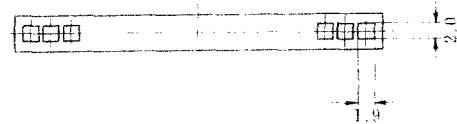
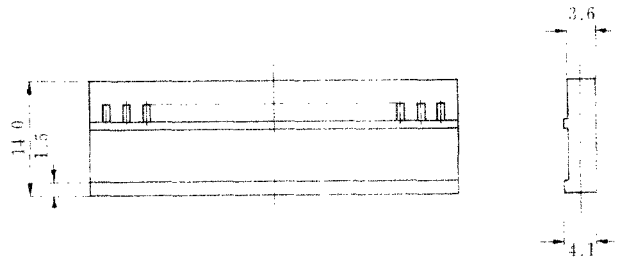
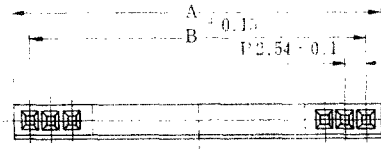
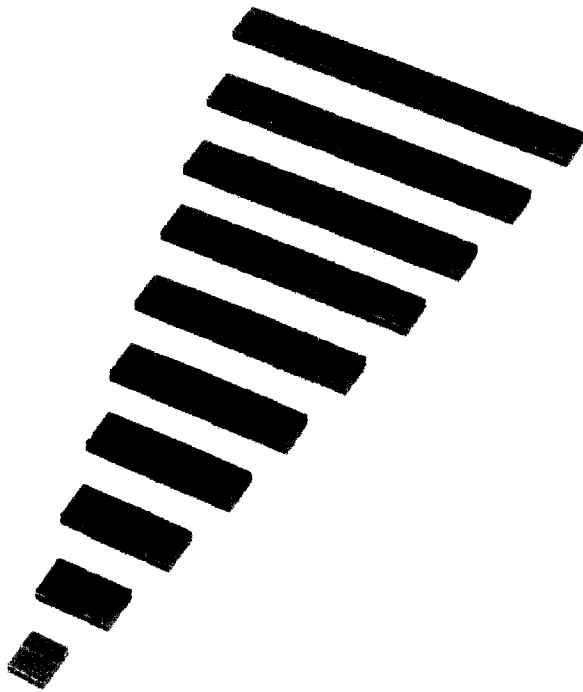
### Straight Dip Soldering Type Plug



HIF3G-50P-2.54DSA	No. of pin
	50

HIF3G-50P-2.54DSA

Socket Housing



mm (inch)

Part No.	No. of pin	A	B
HIF3G-55-2.54C	5	12.7 (.50)	10.16 (.40)
HIF3G-105-2.54C	10	25.4 (1.00)	22.86 (.90)
HIF3G-155-2.54C	15	38.1 (1.50)	35.56 (1.40)
HIF3G-205-2.54C	20	50.8 (2.00)	48.26 (1.90)
HIF3G-255-2.54C	25	63.5 (2.50)	60.96 (2.40)
HIF3G-305-2.54C	30	76.2 (3.00)	73.66 (2.90)
HIF3G-355-2.54C	35	88.9 (3.50)	86.36 (3.40)
HIF3G-405-2.54C	40	101.6 (4.00)	99.06 (3.90)
HIF3G-455-2.54C	45	114.3 (4.50)	111.76 (4.40)
HIF3G-505-2.54C	50	127.0 (5.00)	124.46 (4.90)



### Assembling procedure of crimp contact

1. Strip the cable insulation, as shown in Fig. 1, and crimp with our hand tool HIF3-T2226HC or HIF3-T2428HC. In this case, please crimp after inserting cable to cable stop, as shown in Fig. 2.
2. After crimping, insert the cable to socket housing, confirming the contact position in Fig. 3 and 4. Then please make sure if the lance is safely fixed by housing, as per the "A" part shown in Fig. 4, by pulling cable slightly.

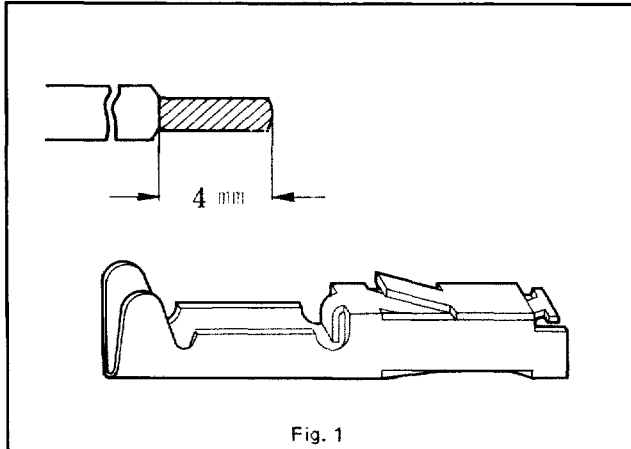


Fig. 1

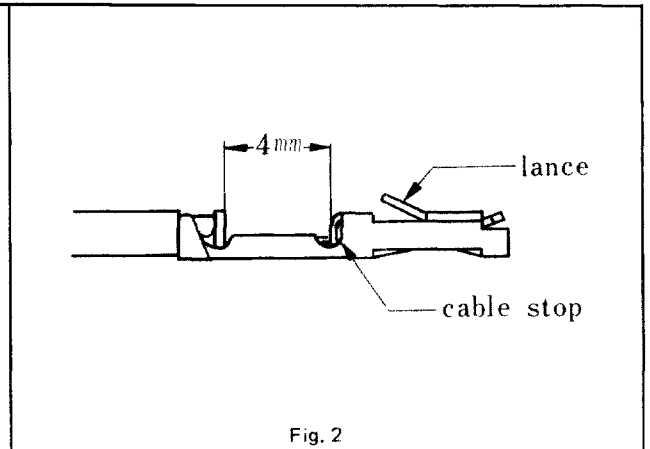


Fig. 2

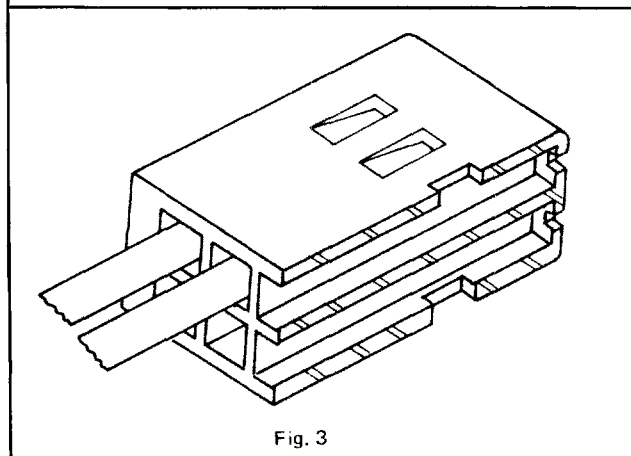


Fig. 3

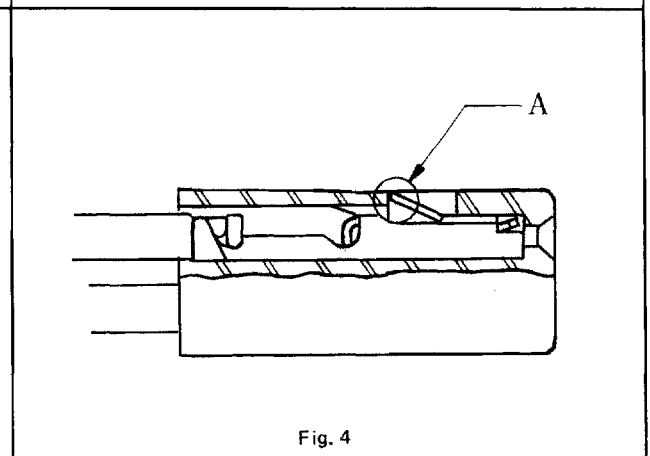


Fig. 4

### Tools

#### Crimping tool



Applicable cable	Part No.
AWG22-26	HIF3-T2226HC
AWG24-28	HIF3-T2428HC

#### Autocrimping machine (model CM-105)

