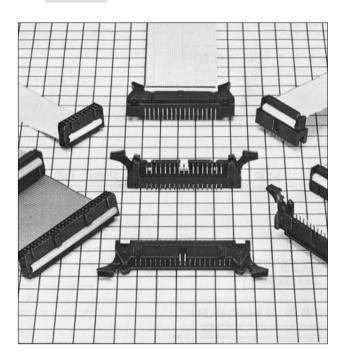


# Ribbon Cable connector Compliant with MIL Standard

### HIF3B Series



#### **■**Features

#### 1. Product Compliant with MIL Standard

HIF3B series has been developed as a product compliant with MIL standard, and used for wide applications.

#### 2. UL Approval Product

HIF3B series connectors are UL approved.

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

This connector is equipped with the mechanism to prevent Misinsertion as follows.

- ① The system provides the convex area to insert the guide-key on the pin header side, and to guide it in combination with the socket convex area (MIL standard).
- ② The system embeds and guides the polarizing key in the socket holes.

#### 4. Applicable Cable AWG#28

The applicable cable is UL2651 AWG#28 flat cable (7 cores./ 0.127mm, jacket dia.  $0.9\pm0.1$ mm).

### **■**Product Specifications

Dating	Current rating : 1A	Operating Temperature Range : −55 to +85°C (Note 1)	Storage Temperature Range : −10 to +60°C (Note 2)
Rating	Voltage rating : 200V AC	Operating Moisture Range: 40 to 80%	Storage Humidity Range : 40 to 70% (Note 2)

Item	Specification	Condition
1. Insulation Resistance	1000M ohms min.	500V DC
2. Withstanding voltage	No flashover or insulation breakdown.	650V AC/1 minute
3. Contact Resistance	15m ohms max.	0.1A
4. 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.
5. Humidity (Steady state)	Insulation resistance: 1000M ohms min.	96 hours at temperature of 40°C and humidity of 90% to 95%
C. Tanananatura Cuala	No domestic available according	(-65°C: 30 minutes → 15 to 35°C: 5 minutes max.
6. Temperature Cycle	No damage, cracks, or parts looseness.	125°C: 30 minutes → 15 to 35°C: 5 minutes max.) 5 cycles
7. Durability (Mating/un-mating)	Contact resistance: 15m ohms max.	500 cycles
O. Desires of Called a Land		Flow: 260℃ for 10 seconds
8. 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

Part		Material		Finish	Remarks
Insulator	PBT			Black	UL94V-0
	D. Dandling and a		Connection area	Gold plated	
Cooket Contact	D	Beryllium copper	Connection area	Gold plated	
Socket Contact	DA	Copper alloy	Connection area	Gold plated	
	DA Copper alloy		Connection area	Tin lead plated	
Pin header contact		Brass	Selecti	ive Gold plated	

# **■**Ordering Information

#### Socket

$$\frac{\mathsf{HIF}}{\bullet} \ \frac{\mathsf{3B}}{\bullet} \ - \ \frac{\mathsf{*}}{\bullet} \ \frac{\mathsf{D}}{\bullet} \ \frac{\mathsf{A}}{\bullet} \ - \ \frac{\mathsf{2.54}}{\bullet} \ \frac{\mathsf{R}}{\bullet}$$

Series Name : HIF
 Series No. : 3B, 3BA, 3BB (50, 60, 64 contacts only)
 Number of contacts : 16, 20, 26, 30, 34, 40, 50, 60, 64
 Contact alignment : D : Double
 A : VA type
 Contact pitch : 2.54mm
 Connection type
 R : ID type

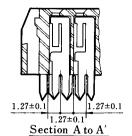
#### ●Pin Header

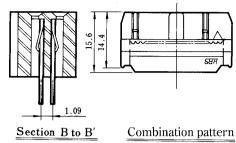
$$\frac{\mathsf{HIF}}{\bullet} \ \frac{\mathsf{3B}}{\bullet} \ - \ \frac{\mathsf{*}}{\bullet} \ \frac{\mathsf{P}}{\bullet} \ \frac{\mathsf{A}}{\bullet} \ - \ \frac{2.54}{\bullet} \ \frac{\mathsf{DS}}{\bullet}$$

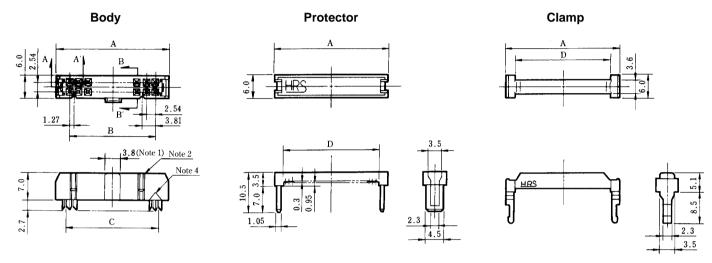
Series Name	: HIF	
Series No.	:	
3B : (14	contacts not included)	3BC: (10 contacts only)
3BA, 3BB: (50,	60, 64 contacts only)	3BD: (10 contacts only)
Number of contact	s: 16, 20, 26, 30, 34, 4	0, 50, 60, 64
Р	: Pin header	
Α	: Selective gold plated	t
Contact pitch	: 2.54mm	
Contact style		
DS	: Right angle type	
DSA	: Straight type	
	Series No. 3B : (14 3BA, 3BB: (50, Number of contact P A Contact pitch Contact style DS	3B : (14 contacts not included) 3BA, 3BB: (50, 60, 64 contacts only)  Number of contacts : 16, 20, 26, 30, 34, 4  P : Pin header  A : Selective gold plated  Contact pitch : 2.54mm  Contact style  DS : Right angle type

# ■Socket (With guide to prevent mis-insertion)







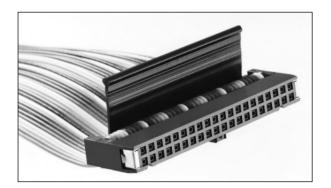


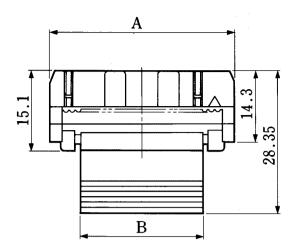
Note1, Note2: The number of polarizing keys and polarizing keyways changes according to products. Refer to the list as shown below. Note3: The 50, 60 and 64 contact connector contain two types of polarizing guides. Use the products, referring to Notes 1 and 2. Note4: The 6 contact has no polarizing mark.

#### Unit:mm

	Part Number	CL No.	Part Number	CL No.	Number of Contacts	Α	В	С	D	Polarizing Guide (Note 1)	Polarizing Keyway (Note 2)
	HIF3BA- 6D-2.54R	610-0032-3			6	12.19	5.08	6.35	7.72		None
	HIF3BA-10D-2.54R	610-0021-7	HIF3BA-10DA-2.54R	610-0651-5	10	17.27	10.16	11.43	12.8		One on left side
*	HIF3BA-14D-2.54R	610-0022-0	HIF3BA-14DA-2.54R	610-0652-8	14	22.35	15.24	16.51	17.88		One on left side
*	HIF3BA-16D-2.54R	610-0023-2	HIF3BA-16DA-2.54R	610-0653-0	16	24.89	17.78	19.05	20.42		
*	HIF3BA-20D-2.54R	610-0024-5	HIF3BA-20DA-2.54R	610-0654-3	20	29.97	22.86	24.13	25.5	One at center	
*	HIF3BA-26D-2.54R	610-0025-8	HIF3BA-26DA-2.54R	610-0655-6	26	37.59	30.48	31.75	33.12		
*	HIF3BA-30D-2.54R	610-0026-0	HIF3BA-30DA-2.54R	610-0656-9	30	42.67	35.56	36.83	38.2		
*	HIF3BA-34D-2.54R	610-0027-3	HIF3BA-34DA-2.54R	610-0657-1	34	47.75	40.64	41.91	43.28		
*	HIF3BA-40D-2.54R	610-0028-6	HIF3BA-40DA-2.54R	610-0658-4	40	55.37	48.26	49.53	50.9		One on right and
*	HIF3BA-50D-2.54R	610-0029-9	HIF3BA-50DA-2.54R	610-0659-7	50	68.07	60.96	62.23	63.6	One on right and left sides, resp.	left sides, resp.
*	HIF3BB-50D-2.54R	610-0041-4	HIF3BB-50DA-2.54R	610-0671-2	50	68.07	60.96	62.23	63.6	One at center	
*	HIF3BA-60D-2.54R	610-0030-8	HIF3BA-60DA-2.54R	610-0660-6	60	80.77	73.66	74.93	76.3	One on right and left sides, resp.	
*	HIF3BB-60D-2.54R	610-0042-7	HIF3BB-60DA-2.54R	610-0672-5	60	80.77	73.66	74.93	76.3	One at center	
*	HIF3BA-64D-2.54R	610-0031-0	HIF3BA-64DA-2.54R	610-0661-9	64	85.85	78.74	80.01	81.38	One on right and left sides, resp.	
*	HIF3BB-64D-2.54R	610-0043-0	HIF3BB-64DA-2.54R	610-0673-8	64	85.85	78.74	80.01	81.38	One at center	

# **■**Socket with Withdrawal Tab

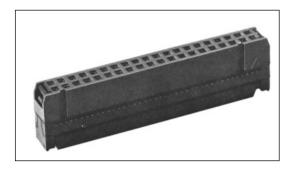


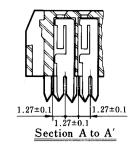


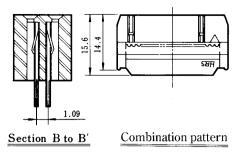
Unit: mm

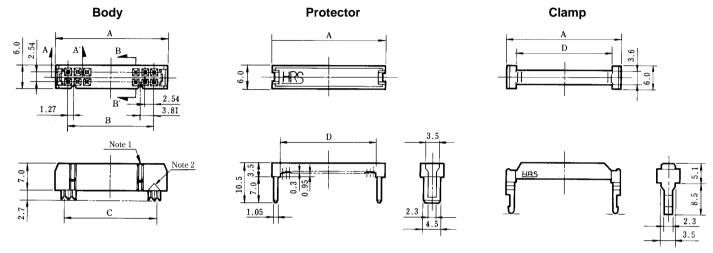
Part Number	CL No.	Number of Contacts	Α	В
HIF3BA-10D-2.54R-CL	610-0190-4	10	17.27	5.3
HIF3BA-16D-2.54R-CL	610-0192-0	16	24.89	12.9
HIF3BA-20D-2.54R-CL	610-0193-2	20	29.97	18.0
HIF3BA-26D-2.54R-CL	610-0194-5	26	37.59	25.5
HIF3BA-30D-2.54R-CL	610-0195-8	30	42.67	30.5
HIF3BA-34D-2.54R-CL	610-0196-0	34	47.75	35.8
HIF3BA-40D-2.54R-CL	610-0197-3	40	55.37	43.4
HIF3BA-50D-2.54R-CL	610-0198-6	- 50	68.07	56.0
HIF3BB-50D-2.54R-CL	610-0201-9	50	00.07	56.0
HIF3BA-60D-2.54R-CL	610-0199-9	60	00.77	CO F
HIF3BB-60D-2.54R-CL	610-0202-1	60	80.77	68.5
HIF3BA-64D-2.54R-CL	610-0200-6	64	05 05	73.8
HIF3BB-64D-2.54R-CL	610-0203-4	64	85.85	13.8

### **■**Socket







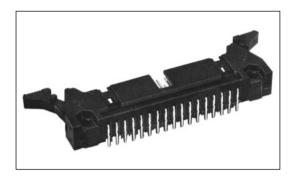


Note1: The number of polarizing keys and polarizing keyways changes according to products. For details, refer to the list as shown below. Note2: The 6 contact has no polarizing mark.

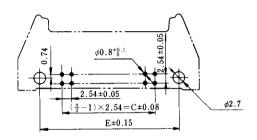
#### Unit:mm

	Part Number	CL No.	Number of Contacts	Α	В	С	D	Polarizing Guide (Note 1)
	HIF3B- 6D-2.54R	610-0012-6	6	12.19	5.08	6.35	7.72	None
*	HIF3B-10D-2.54R	610-0001-0	10	17.27	10.16	11.43	12.80	One on left side
*	HIF3B-14D-2.54R	610-0002-2	14	22.35	15.24	16.51	17.88	One on left side
*	HIF3B-16D-2.54R	610-0003-5	16	24.89	17.78	19.05	20.42	
*	HIF3B-20D-2.54R	610-0004-8	20	29.97	22.86	24.13	25.50	
*	HIF3B-26D-2.54R	610-0005-0	26	37.59	30.48	31.75	33.12	
*	HIF3B-30D-2.54R	610-0006-3	30	42.67	35.56	36.83	38.2	One on right and
*	HIF3B-34D-2.54R	610-0007-6	34	47.75	40.64	41.91	43.28	left sides, resp.
*	HIF3B-40D-2.54R	610-0008-9	40	55.37	48.26	49.53	50.90	
*	HIF3B-50D-2.54R	610-0009-1	50	68.07	60.96	62.23	63.6	
*	HIF3B-60D-2.54R	610-0010-0	60	80.77	73.66	74.93	76.3	
*	HIF3B-64D-2.54R	610-0011-3	64	85.85	78.74	80.01	81.38	

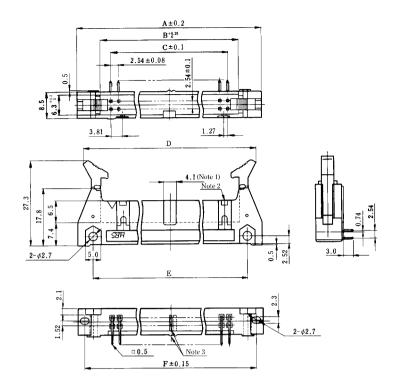
# **■**Four Wall Angle Through hole



# **●**PCB mounting pattern



■n=number of contacts



Note 1, Note 2: The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.

Note 3: The spacer moves to the right according to the number of contacts.

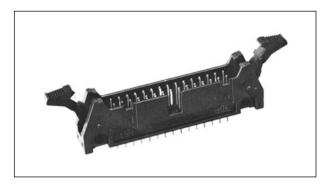
Note 4: The 10, 50, 60 and 64 contact connectors contain two types of polarizing slots.

Use products, referring to (Note 1) (Note 2).

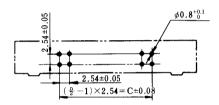
Unit:mm

	Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)
*	HIF3BA-10PA-2.54DS	610-0091-2	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side
	HIF3BD-10PA-2.54DS	610-0171-0	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None
*	HIF3BA-14PA-2.54DS	610-0092-5	14	37.1	22.6	15.24	33.24 MAX56.2	26.9	33.0		One on right side
*	HIF3BA-16PA-2.54DS	610-0093-8	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5		
*	HIF3BA-20PA-2.54DS	610-0094-0	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6	0	
*	HIF3BA-26PA-2.54DS	610-0095-3	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center	
*	HIF3BA-30PA-2.54DS	610-0096-6	30	57.4	42.9	35.56	53.54 MAX76.5	47.2	53.3		
*	HIF3BA-34PA-2.54DS	610-0097-9	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4		
*	HIF3BA-40PA-2.54DS	610-0098-1	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0		One on right and
*	HIF3BA-50PA-2.54DS	610-0099-4	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7	One on right and left sides, resp.	
*	HIF3BB-50PA-2.54DS	610-0131-5	50	82.8			78.94 MAX101.9		78.7	One at center	
*	HIF3BA-60PA-2.54DS	610-0100-1	60	95.5			91.64 MAX114.6		91.4	One on right and left sides, resp.	
*	HIF3BB-60PA-2.54DS	610-0132-8	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One at center	
*	HIF3BA-64PA-2.54DS	610-0101-4	64	100.6			96.74 MAX119.7		96.5	One on right and left sides, resp.	
*	HIF3BB-64PA-2.54DS	610-0133-0	64	100.6	86.1	78.74		90.4	96.5	One at center	

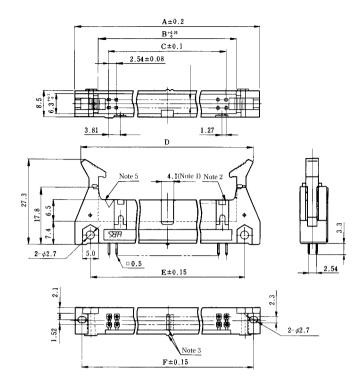
# **■**Four-Wall Straight Through hole



# **●**PCB mounting pattern



■n=number of contacts



Note 1, Note 2: The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.

Note 3: The spacer moves to the right according to the number of contacts.

Note 4: The 10, 50, 60 and 64 contact connectors contain two types of polarizing slots.

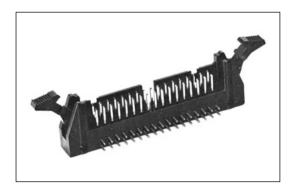
Use products, confirming (Note 1) (Note 2).

Note 5: The 6 contact has no polarity mark.

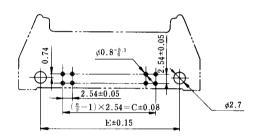
Unit:mm

	Part Number	CL No.	Number of Contacts	А	В	С	D	Е	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)
*	HIF3-6PA-2.54DSA	562-0503-9	6	26.92	12.42	5.08	23.06 MAX46.02	16.7	22.82	One at center	None
	HIF3BA-10PA-2.54DSA	610-0111-8	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side
*	HIF3BD-10PA-2.54DSA	610-0181-3	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None
*	HIF3BA-14PA-2.54DSA	610-0112-0	14	37.1	22.6	15.24	33.24 MAX56.2	26.9	33.0		One on right side
*	HIF3BA-16PA-2.54DSA	610-0113-3	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5		
*	HIF3BA-20PA-2.54DSA	610-0114-6	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6	One of contes	
*	HIF3BA-26PA-2.54DSA	610-0115-9	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center	
*	HIF3BA-30PA-2.54DSA	610-0116-1	30	57.4	42.9	35.56	53.54 MAX76.5	47.2	53.3		
*	HIF3BA-34PA-2.54DSA	610-0117-4	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4		
*	HIF3BA-40PA-2.54DSA	610-0118-7	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0		One on right and
*	HIF3BA-50PA-2.54DSA	610-0119-0	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7	One on right and left sides, resp.	left sides, resp.
*	HIF3BB-50PA-2.54DSA	610-0141-9	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7	One at center	
*	HIF3BA-60PA-2.54DSA	610-0120-9	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One on right and left sides, resp.	
*	HIF3BB-60PA-2.54DSA	610-0142-1	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One at center	
*	HIF3BA-64PA-2.54DSA	610-0121-1	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5	One on right and left sides, resp.	
*	HIF3BB-64PA-2.54DSA	610-0143-4	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5	One at center	

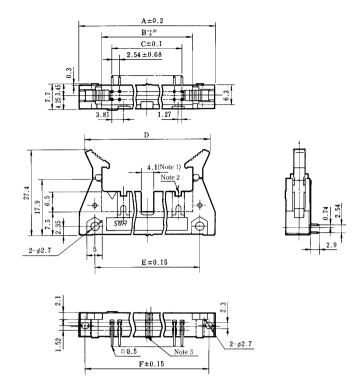
# **■**Three Wall Angle Type



# **●**PCB mounting pattern



■n=number of contacts



Note 1, Note 2: The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.

Note 3: The spacer moves according to the number of contacts.

Note 4: The 10 contact connector consists of two types. Use products, confirming (Note 1) (Note 2).

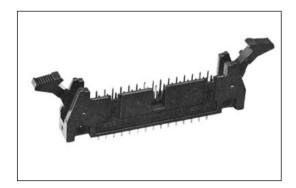
Note 5: The 6 contact has no polarity mark.

Note 6: The nut built-in specification product is also provided. The product can be fixed by M2 screws from the rear side. Use the screw of (board thickness) +4 mm under the neck.

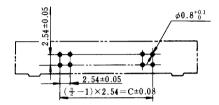
Unit:mm

	Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)
*	HIF3B -10PA-2.54DS	610-0051-8	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side
	HIF3BC-10PA-2.54DS	610-0151-2	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None
*	HIF3B -16PA-2.54DS	610-0052-0	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5		
*	HIF3B -20PA-2.54DS	610-0053-3	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6		
*	HIF3B -26PA-2.54DS	610-0054-6	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center	
*	HIF3B -30PA-2.54DS	610-0055-9	30	57.4	42.9	35.56	53.54 MAX76.5	47.2	53.3		One on right and
*	HIF3B -34PA-2.54DS	610-0056-1	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4		left sides, resp.
*	HIF3B -40PA-2.54DS	610-0057-4	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0		
*	HIF3B -50PA-2.54DS	610-0058-7	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7		
*	HIF3B -60PA-2.54DS	610-0059-0	60	95.5		73.66		85.3	91.4	One on right and left sides, resp.	
*	HIF3B -64PA-2.54DS	610-0060-9	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5		

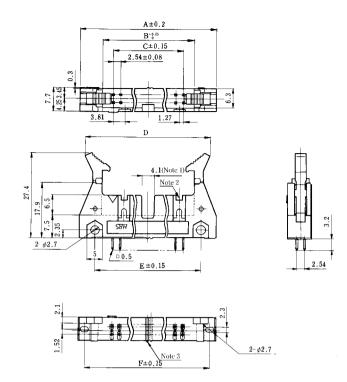
# **■**Three Wall Straight Through hole



# **●**PCB mounting pattern



■n=number of contacts



Note1,Note2: The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.

Note3: The spacer moves to the right according to the number of contacts.

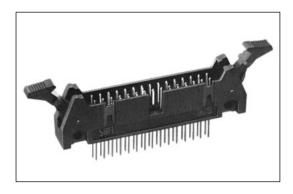
Note4: The 10 contact connector consists of two types.
Use products, referring to (Note 1) and (Note 2).

Note5: The 6 contact has no polarity mark.

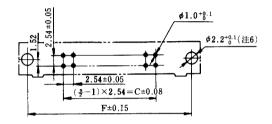
Unit:mm

	Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)
*	HIF3B -10PA-2.54DSA	610-0071-5	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side
	HIF3BC-10PA-2.54DSA	610-0161-6	10	32.0		10.16		21.8	27.9		None
*	HIF3B -16PA-2.54DSA	610-0072-8	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5		
*	HIF3B -20PA-2.54DSA	610-0073-0	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6		
*	HIF3B -26PA-2.54DSA	610-0074-3	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center	
*	HIF3B -30PA-2.54DSA	610-0075-6	30	57.4	42.9	35.56	53.54 MAX76.5	47.2	53.3		One on right and
*	HIF3B -34PA-2.54DSA	610-0076-9	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4		left sides, resp.
*	HIF3B -40PA-2.54DSA	610-0077-1	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0		
*	HIF3B -50PA-2.54DSA	610-0078-4	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7		
*	HIF3B -60PA-2.54DSA	610-0079-7	60	95.5		73.66			91.4	One on right and left sides, resp.	
*	HIF3B -64PA-2.54DSA	610-0080-6	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5		

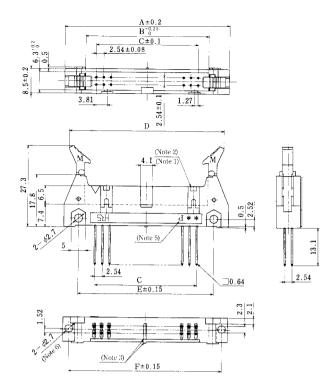
# **■**Four Wall Wrapping Type



# **●**PCB mounting pattern



■n=number of contacts



- Note 1, Note 2. The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.
- Note 3. The spacer moves to the right according to the number of contacts.
- Note 4. The 10, 50, 60 and 64 contact connectors consists of two types. Use products, confirming (Note 1) (Note 2).
- Note 5. The mark \* indicates the number of contacts.
- Note 6. The nut built-in specification product is also provided.

  The product can be fixed by M2 screws from the rear side.

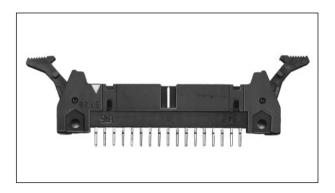
  Use the screw of (board thickness) +4 mm under the neck.

Unit:mm

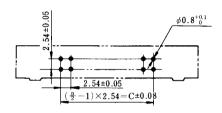
	Part Number	CL No.	Number of Contacts	Α	В	С	D	E	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)
*	HIF3BA-10P-2.54W	610-0503-8	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side
	HIF3BD-10P-2.54W	610-0492-3	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None
*	HIF3BA-14P-2.54W	610-0493-6	14	37.1	22.6	15.24	33.24 MAX56.2	26.9	33.0		One on right side
*	HIF3BA-16P-2.54W	610-0494-9	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5		
*	HIF3BA-20P-2.54W	610-0495-1	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6	One of conter	
*	HIF3BA-26P-2.54W	610-0496-4	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center	
*	HIF3BA-30P-2.54W	610-0497-7	30	57.4	42.9	35.56	53.54 MAX76.5	47.2	53.3		
*	HIF3BA-34P-2.54W	610-0498-0	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4		
*	HIF3BA-40P-2.54W	610-0499-2	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0		One on right and
*	HIF3BA-50P-2.54W	610-0504-0	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7	One on right and left sides, resp.	left sides, resp.
*	HIF3BB-50P-2.54W	610-0500-0	50	82.8			78.94 MAX101.9		78.7	One at center	
*	HIF3BA-60P-2.54W	610-0505-3	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One on right and left sides, resp.	
*	HIF3BB-60P-2.54W	610-0501-2	60	95.5			91.64 MAX114.6		91.4	One at center	
*	HIF3BA-64P-2.54W	610-0506-6	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5	One on right and left sides, resp.	
*	HIF3BB-64P-2.54W	610-0502-5	64	100.6		78.74		90.4	96.5	One at center	

# **■**Four Wall Straight Through hole

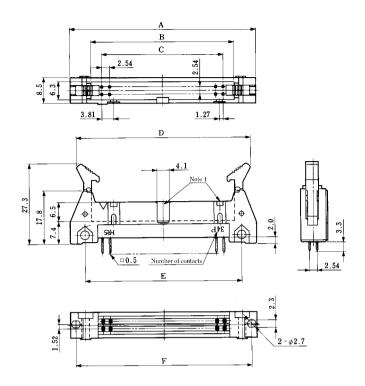
# [Flux Blister Prevention Type]



# **●**PCB mounting pattern



■n=number of contacts

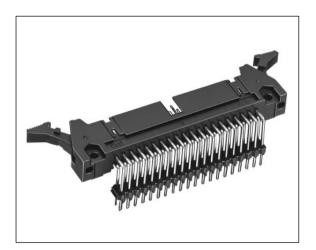


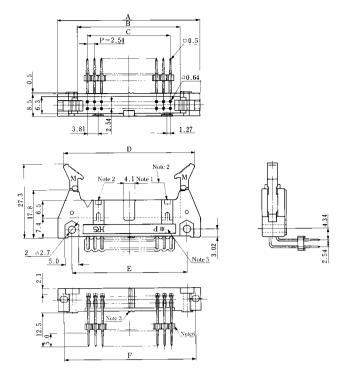
Note1: The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.

#### Unit:mm

	Part Number	CL No.	Number of Contacts	А	В	С	D	Е	F	Polarizing Slot	Polarizing Key Install		
*	HIF3CA-10PA-2.54DSA	610-0701-1	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side		
	HIF3CD-10PA-2.54DSA	610-0722-1	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None		
*	HIF3CA-16PA-2.54DSA	610-0703-7	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5				
*	HIF3CA-20PA-2.54DSA	610-0704-0	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6		One on right and		
*	HIF3CA-26PA-2.54DSA	610-0705-2	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center			
*	HIF3CA-30PA-2.54DSA	610-0706-5	30	57.4	42.9	35.56	53.54 MAX76.5	47.2	53.3				
*	HIF3CA-34PA-2.54DSA	610-0707-8	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4				
*	HIF3CA-40PA-2.54DSA	610-0708-0	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0		left sides, resp.		
*	HIF3CA-50PA-2.54DSA	610-0709-3	50	82.8	68.3	60.96	78.94 MAX101.9	72.6	78.7	One on right and left sides, resp.			
*	HIF3CB-50PA-2.54DSA	610-0721-9	50	82.8		60.96	70.04	72.6	78.7				
*	HIF3CB-60PA-2.54DSA	610-0723-4	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One at center			
*	HIF3CB-64PA-2.54DSA	610-0724-7	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5				

# **■**Two Stage Staking Right Angle Through hole



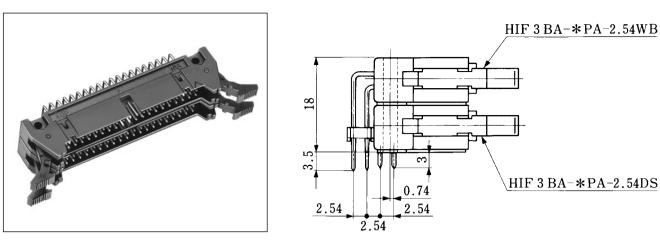


- Note 1, Note 2: The number of polarizing slot and key installed positions changes according to products. Refer to the list as shown below.
- Note 3: The spacer moves to the right according to the number of contacts.
- Note 4: The 10, 50, 60 and 64 contact connectors consists of two types. Use products, confirming (Note 1) (Note 2).
- Note 5: The mark \* ndicates the number of contacts.
- Note 6: The locator is located optionally.

Unit:mm

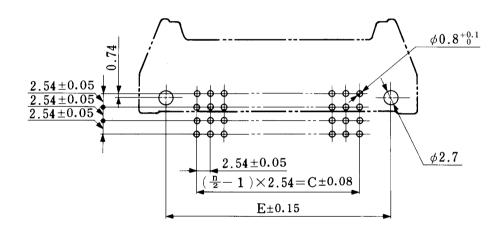
	Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)		
*	HIF3BA-10PA-2.54WB	610-1502-0	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side		
	HIF3BD-10PA-2.54WB	610-1503-3	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None		
*	HIF3BA-16PA-2.54WB	610-1505-9	16	39.6	25.1	17.78	35.74 MAX58.7	29.5	35.5				
*	HIF3BA-20PA-2.54WB	610-1506-1	20	44.7	30.2	22.86	40.84 MAX63.8	34.5	40.6				
*	HIF3BA-26PA-2.54WB	610-1507-4	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3	One at center			
*	HIF3BA-30PA-2.54WB	610-1508-7	30	57.4		35.56	C.O / XAIVI	47.2	53.3		One on right and		
*	HIF3BA-34PA-2.54WB	610-1509-0	34	62.5	48.0	40.64	58.64 MAX81.6	52.3	58.4				
*	HIF3BA-40PA-2.54WB	610-1510-9	40	70.1	55.6	48.26	66.24 MAX89.2	59.9	66.0				
*	HIF3BA-50PA-2.54WB	610-1511-1	50	82.8			78.94 MAX101.9		78.7	One on right and left sides, resp.	left sides, resp.		
*	HIF3BB-50PA-2.54WB	610-1512-4	50	82.8			78.94 MAX101.9		78.7	One at center			
*	HIF3BA-60PA-2.54WB	610-1513-7	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One on right and left sides, resp.			
*	HIF3BB-60PA-2.54WB	610-1514-0	60	95.5	81.0	73.66	91.64 MAX114.6	85.3	91.4	One at center			
*	HIF3BA-64PA-2.54WB	610-1515-2	64	100.6			96.74 MAX119.7	90.4	96.5	One on right and left sides, resp.			
*	HIF3BB-64PA-2.54WB	610-1516-5	64	100.6	86.1	78.74	96.74 MAX119.7	90.4	96.5	One at center			

### **◆**Combination Pattern

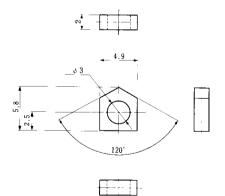


Note: Fix the HIF3-mounting hole spacer by screws between upper stage and lower stage connectors.

# **●**PCB mounting pattern



# **■**Mounting Hole Spacer

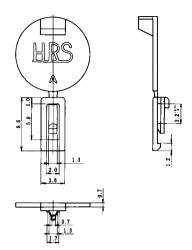


Part Number	CL No.	Finish
HIF-3 mounting hole spacer	562-0714-4	PBT Black

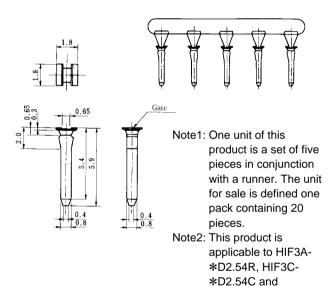
Note: 2 pieces are contained in a bag.

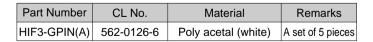
# ◆Polarizing Key





#### HIF3-GPIN(A)

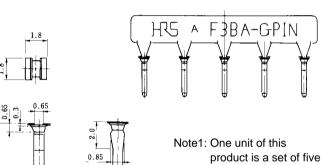




HIF3BA-\*D2.54C products.

#### HIF3BA-GPIN

0.8



pieces in conjunction with a runner. The unit for sale is defined one pack containing 20 pieces.

Note2: This product is applicable to the HIF3BA-\*D2.54R product.

Part Number	CL No.	Material	Remarks
HIF3BA-GPIN	612-0500-2	Poly acetal (white)	A set of 5 pieces

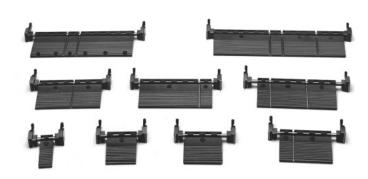
# **◆**HIF3-Multi Clamp



This clamp is used for intermediate connection in the bus-line system, etc. Remove compulsory force from the insulation displacement area of the connector in intermediate connection.

Note: The pin header corresponds to the HIF3BAE series (lock E).

### **♦**HIF3-\*CL Pull Tab



This pull tab is used for the HIF3 series equipped with cable clamp function. Remove all compulsory force, which is loaded on the insulation displacement area of the connector for extraction.

Note: This HIF3-\* Pull Tab can not be used for HIF3BA-\*PD.

Note: The pin header corresponds to the HIF3BAE series (lock E).



# **♦** Lock

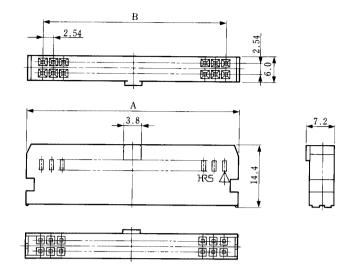
#### **●**Low Profile Lock Pin Header

### ●F Type Lock Pin Header

# Lock F Lock G Part Number: HIF3BAG-\*\*PA-2.54DSA Part Number: HIF3BAG-\*\*PA-2.54DSA ●Low profile type, and used for lock ejection. •Locking range more reduced than conventional lock type. Connector height is reduced. Even if connectors are aligned laterally, the mounting Since no connector clamp is needed on the cable side, space is reduced. this is used without turning back on the cable side. Take Note: The clamp must be replaced for HIF3A socket type care about this point. 50 contacts only. Take care about this point.

# **■**Socket for Crimping



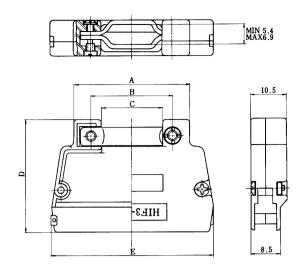


Unit: mm

Part Number	CL No.	Number of Contacts	Α	В	Polarizing Guide	
HIF3BA-10D-2.54C	610-1041-0	10	17.25	10.16		
HIF3BA-14D-2.54C	610-1051-3	14	22.35	15.24		
HIF3BA-16D-2.54C	610-1042-2	16	24.8	17.78		
HIF3BA-20D-2.54C	610-1043-5	20	29.95	22.86	One at center	
HIF3BA-26D-2.54C	610-1044-8	26	37.55	30.48	One at center	
HIF3BA-30D-2.54C	610-1045-0	30	42.63	35.56		
HIF3BA-34D-2.54C	610-1046-3	34	47.75	40.64		
HIF3BA-40D-2.54C	610-1047-6	40	55.35	48.26		
HIF3BA-50D-2.54C	610-1048-9	50	68.04	60.96	One right and left side, resp.	
HIF3BB-50D-2.54C	610-1061-7	50	00.04	00.90	One at center	
HIF3BA-60D-2.54C	610-1049-1	60	80.77	73.66	One right and left side, resp.	
HIF3BB-60D-2.54C	610-1062-0	80	60.77	73.00	One at center	
HIF3BA-64D-2.54C	610-1064-5	- 64	85.85	78.74	One right and left side, resp.	
HIF3BB-64D-2.54C	610-1063-2	04	05.85	70.74	One at center	

# **■**Cover Case for Crimping socket



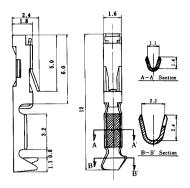


Unit: mm

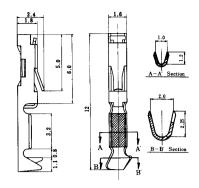
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е
HIF3-20CV	562-0201-0	20	24.5	18.0	12.0	30.5	29.95
HIF3-26CV	562-0202-2	26	30.2	20.0	14.0	32.0	37.55
HIF3-30CV	562-0203-5	30	32.2	22.0	16.0	33.0	42.63
HIF3-34CV	562-0204-8	34	34.2	24.0	18.0	33.5	47.75
HIF3-40CV	562-0205-0	40	36.2	26.0	20.0	35.5	55.35
HIF3-50CV	562-0206-3	50	39.2	29.0	23.0	38.0	68.04
HIF3-60CV	562-0207-6	60	42.2	32.0	26.0	40.5	80.77

Note: The type F lock pin header cannot be used for a mating member.

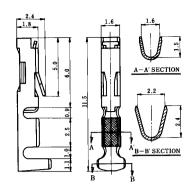
# **■**Contact for Crimping Socket



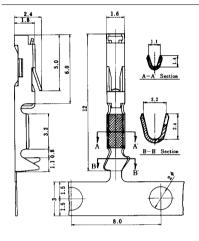


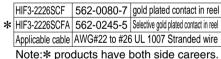


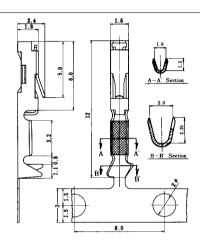
HIF3-2428SC	562-0124-0	gold plated contact in bag						
HIF3-2428SCA	562-0246-8	Selective gold plated contact in bag						
Applicable cable	AWG#24 to #28	AWG#24 to #28 UL 1007 Stranded wire						
Manual crimping tool	HIF3-TA242	HIF3-TA2428HC						



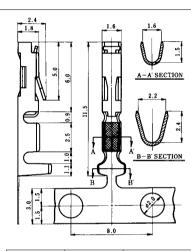
HIF3-2022SC 562-0492-4 gold plated contact in bag Applicable cable AWG#20 to #22 UL 1007 Stranded wire Manual crimping tool HIF3-TA2022HC







	HIF3-2428SCF	562-0125-3	gold plated contact in reel
*	HIF3-2428SCFA	562-0247-0	Selective gold plated contact in reel
	Applicable cable	AWG#24 to #28	BUL 1007 Stranded wire



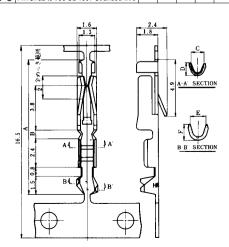
HIF3-2022SCF 562-0493-7 gold plated contact in reel Applicable cable AWG#20 to #22 UL 1007 Stranded wire

#### Type VA (Selective gold plated contact in bag)

., , , , , , , , , , , , , , , , , , ,									
			Manual Crimp Tool						
HIF3-2226SCC	613-0004-7	AWG#22 to #26 UL 1007 Stranded wire	HIF3-TB2226HC	11.5	0.8	1.8	1.8	2.3	2.6
HIF3-2630SCC	613-0003-4	AWG#26 to #30 UL 1007 Stranded wire	HIF3-TB2630HC	11.5	0.8	1.4	1.35	2.0	2.1

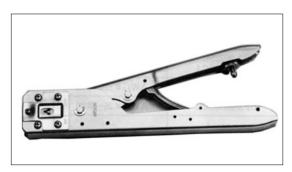
#### Type VA (Selective gold plated in reel)

Part Number	CL No.	Applicable Cable	Α	В	С	D	Е	F
HIF3-2226SCFC	613-0002-1	AWG#22 to #26 UL 1007 Stranded wire	11.5	8.0	1.8	1.8	2.3	2.6
HIF3-2630SCFC	613-0001-9	AWG#26 to #30 UL 1007 Stranded wire	11.5	8.0	1.4	1.35	2.0	2.1
HIF3A-3236SCFC	613-0005-0	AWG#32 to #36 UL 1007 Stranded wire	12.4	1.7	1.1	1.1	1.4	1.5



### **♦**Tools

### **•**Crimping Tool



Part Number	CL No.
HIF3-T2226HC	550-0063-8

Manual Crimping Tool HIF3-T2226HC

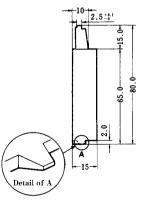
#### ●Automatic Crimping Tool (Type: CM-105)



Part Number	CL No.
CM-105	901-0005-4

#### Contact Extraction Tools





Part Number	CL No.		
HIF1-PO	550-0049-7		

#### How to use the extraction tool

#### (1) How to extract contacts

As shown in Figure 1, where the extraction tool is inserted in the lance fixed slot on the insulated case, slightly pull the cable, and the contact can be removed.

#### (2) How to adjust the lance (raise)

In order to re-insert the contact removed from the insulated case, raise the contact lance area using the tool A, and re-insert the contact, as shown in Figure 2.

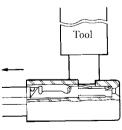


Figure 1

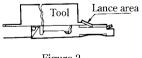


Figure 2

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.

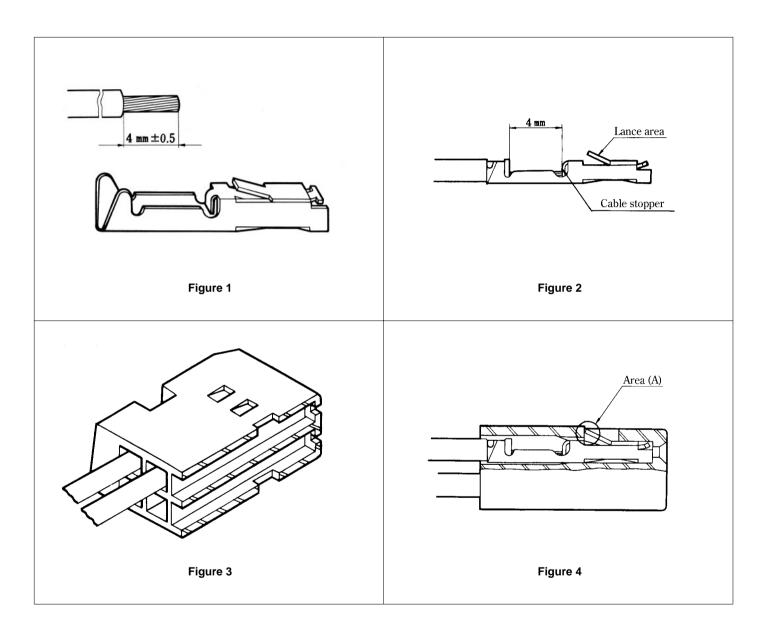
Туре	Item	Part Number	CL No.	Applicable Contact	Applicable Cable
Manual	Manual crimping tool	HIF3-T2226HC	550-0063-8	HIF3-2226SC HIF3-2226SCA	AWG#22 to #26
		HIF3-TA2428HC	550-0100-2	HIF3-2428SC HIF3-2428SCA	AWG#24 to #28
		HIF3-TA2022HC	550-0124-0	HIF3-2022SC	AWG#20 to #22
		HIF3-TB2226HC	550-0154-1	HIF3-2226SCC	AWG#22 to #26
		HIF3-TB2630HC	550-0155-4	HIF3-2630SCC	AWG#26 to #30
Automatic	Automatic crimping tool unit	CM-105	901-0005-4		
	Applicator	AP105-HIF3-22-28SCF	901-4031-6	HIF3-2226SCF HIF3-2428SCF	AWG#22 to #26 AWG#24 to #28
		AP105-HIF3-22-28SCFA	901-4030-3	HIF3-2226SCFA HIF3-2428SCFA	AWG#22 to #26 AWG#24 to #28
		AP105-HIF3-2022S	901-4027-9	HIF3-2022SCF	AWG#20 to #22
		AP105-HIF3-2226SCFC	901-4005-6	HIF3-2226SCFC	AWG#22 to #26
		AP105-HIF3-2630SCFC	901-4006-9	HIF3-2630SCFC	AWG#26 to #30
		AP105-HIF3-3236SCFC	901-4007-1	HIF3-3236SCFC	AWG#32 to #36
	Extraction tool	HIF1-PO	550-0049-7		

Note1: AP106-HIF3-22-28SCF and AP105-HIF3-22-28CFA can be modified by changing a few parts.

# **◆** Socket Side (Crimping) Assembling Procedures

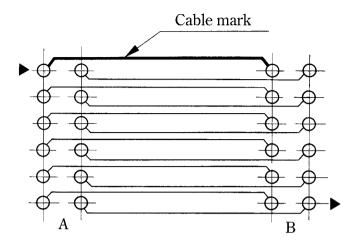
- (1) As shown in Figure 1, peel the applicable cable (AWG#20 to #26) jacket, and connect it using crimping jig HIF3-TA2022HC, HIF3-TA2226HC, or HIF3-TA2426HC. In this case, insert the cable so as to hit the contact cable stripper position as shown Figure 2.
- (2) After connection as shown Figure 2, check the contact direction, and insert the contact as shown Figures 3 and 4. Slightly pull the cable, and check whether the contact lance position is firmly fixed to the insulation case, as shown in the area (A).

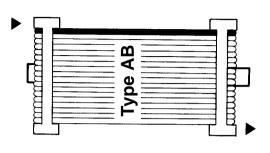
Note: For handling procedures for special crimping tools, refer to the "Handling Instruction Manual".



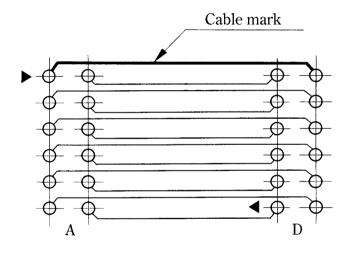
# **HIF3B Connection Circuit Diagram**

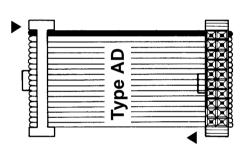
Type AB



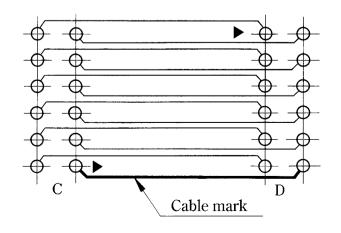


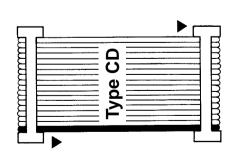
Type AD



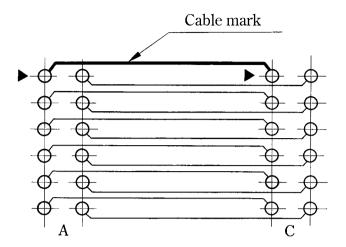


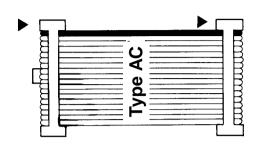
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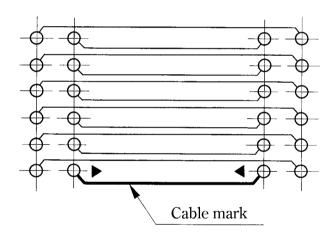


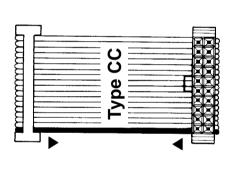
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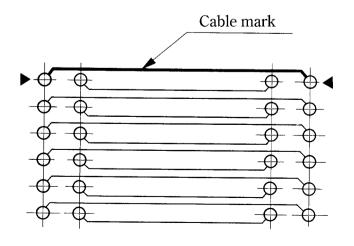


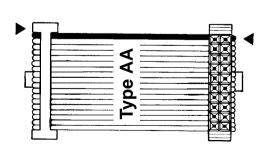
Type CC





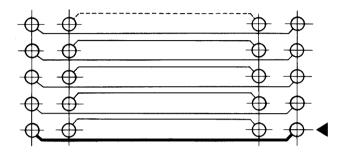
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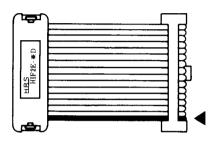




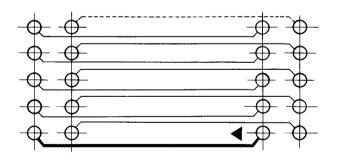
# HIF2E R(S) A to HIF3B Connection Circuit Diagram

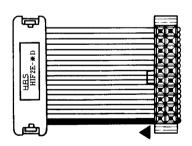
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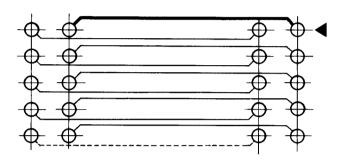


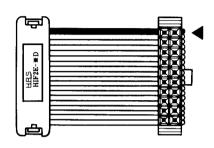
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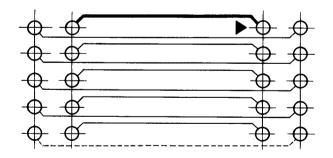


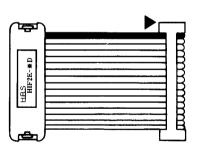
# Type BA





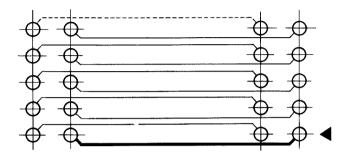
# Type BC

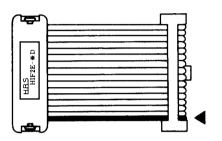




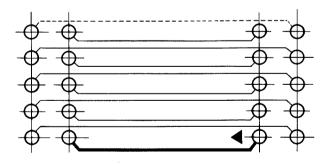
# HIF2E R(S)B to HIF3 Connection Circuit Diagram

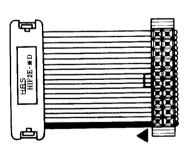
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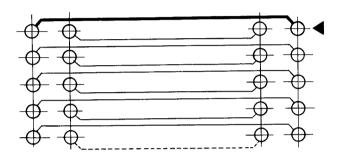


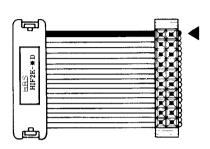
# Type AC





# Type BA





# Type BC

