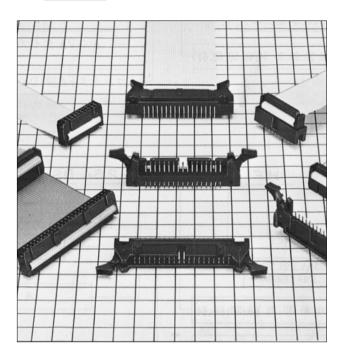
Ribbon Cable connector Compliant with MIL Standard

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 ± 0.1 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 μ 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. Tarras and true Courts	No demons availed as a set leader	(-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. Paristana ta Oalla in Lant	N 17 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Flow: 260°C 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	Part Material			Remarks	
Insulator		PBT	UL94V-0		
	D. Downliven conner		Connection area	Gold plated	
Socket Contact	D	Beryllium copper	Connection area	Gold plated	
Socket Contact	D4	Conner alley	Connection area	Gold plated	
	DA Copper alloy		Connection area Tin lead plated		
Pin header contact	contact Brass		Selecti		

■Ordering Information

Socket

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

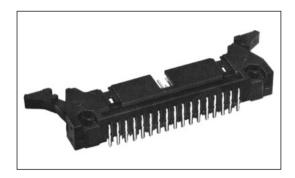
Series Name : HIF 2 Series No. : 3B, 3BA, 3BB (50, 60, 64 contacts only) 3 Number of contacts : 16, 20, 26, 30, 34, 40, 50, 60, 64 4 Contact alignment : D : Double : VA type **6** Contact pitch : 2.54mm Connection type R: ID type

●Pin Header

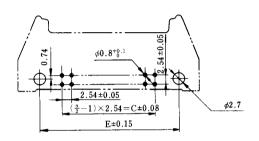
$$\frac{\mathsf{HIF}}{\bullet} \ \frac{3\mathsf{B}}{\bullet} \ - \ \frac{*}{\bullet} \ \frac{\mathsf{P}}{\bullet} \ \frac{\mathsf{A}}{\bullet} \ - \ \frac{2.54}{\bullet} \ \frac{\mathsf{DS}}{\bullet}$$

Series Name : HIF 2 Series No. : (14 contacts not included) 3BC: (10 contacts only) 3BA, 3BB: (50, 60, 64 contacts only) 3BD: (10 contacts only) 3 Number of contacts: 16, 20, 26, 30, 34, 40, 50, 60, 64 : Pin header 6 Α : Selective gold plated **6** Contact pitch : 2.54mm Contact style DS : Right angle type DSA : Straight type

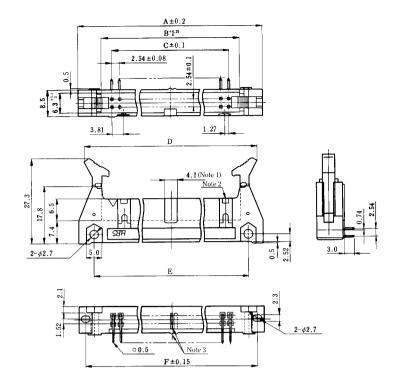
■Four Wall Angle Through hole



●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.

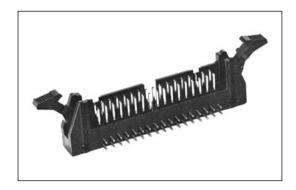
Use products, referring to (Note 1) (Note 2).

Unit:mm

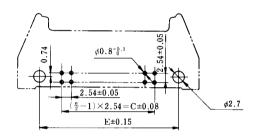
	Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Polarizing Slot (Note 1)	Polarizing Key Install (Note 2)
*	HIF3BA-10PA-2.54DS	610-0091-2	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9	None	One on right side
	HIF3BD-10PA-2.54DS	610-0171-0	10	32.0	17.5	10.16	28.14 MAX51.1	21.8	27.9		None
*	HIF3BA-14PA-2.54DS	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	One at center	
*	HIF3BA-26PA-2.54DS	610-0095-3	26	52.3	37.8	30.48	48.44 MAX71.4	42.2	48.3		
*	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.	1
*	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			91.64 MAX114.6		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			96.74 MAX119.7		96.5	One at center	

The products marked with ★ comply with MIL standard.

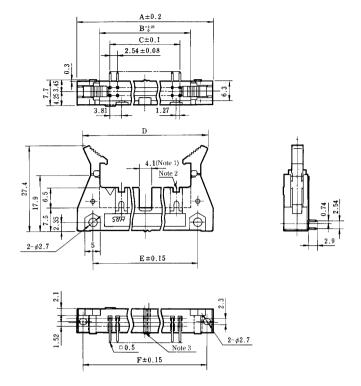
■Three Wall Angle Type



●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.

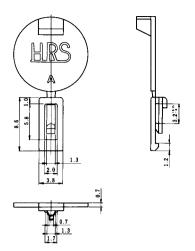
Unit:mm

	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	81.0	73.66	91.64 MAX114.6	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		

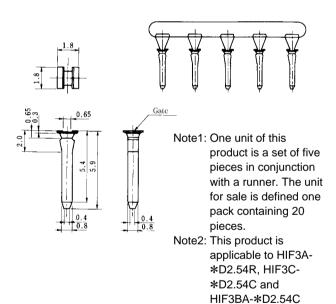
The products marked with ★ comply with MIL standard.

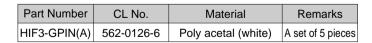
◆Polarizing Key





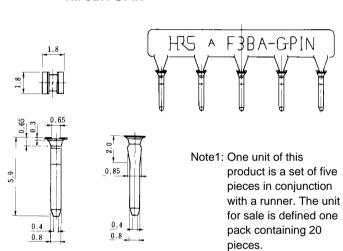
HIF3-GPIN(A)





products.

HIF3BA-GPIN



Note2: This product is

product.

applicable to the

HIF3BA-*D2.54R

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

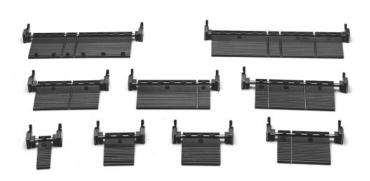
♦HIF3-Multi Clamp



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).

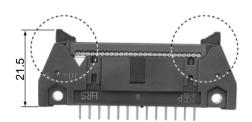


♦ Lock

●Low Profile Lock Pin Header

Part Number: HIF3BAG-**PA-2.54DSA

Lock G

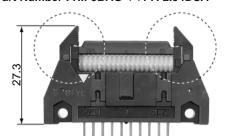


●Low profile type, and used for lock ejection. Connector height is reduced.

Since no connector clamp is needed on the cable side, this is used without turning back on the cable side. Take care about this point.

●F Type Lock Pin Header

Lock F Part Number: HIF3BAG-**PA-2.54DSA



•Locking range more reduced than conventional lock type. Even if connectors are aligned laterally, the mounting space is reduced.

Note: The clamp must be replaced for HIF3A socket type 50 contacts only. Take care about this point.