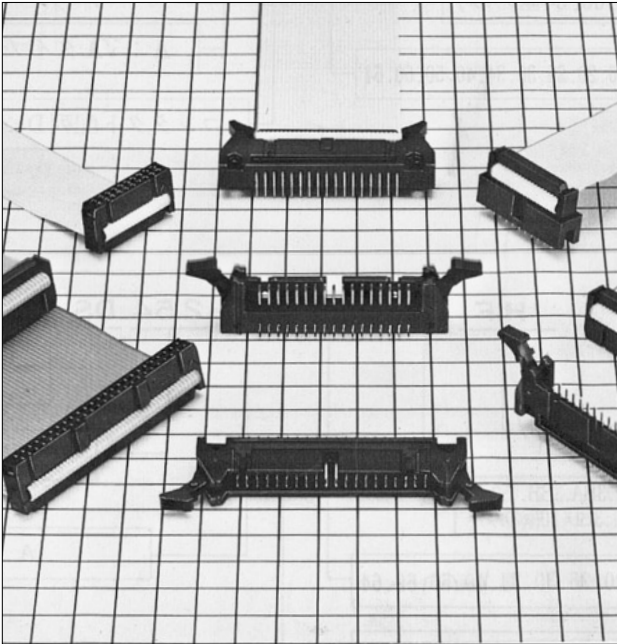


# Ribbon Cable connector Compliant with MIL Standard

## 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 Mis-insertion 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

Rating	Current rating : 1A	Operating Temperature Range : -55 to +85°C (Note 1)	Storage Temperature Range : -10 to +60°C (Note 2)
	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%
6. Temperature Cycle	No damage, cracks, or parts looseness.	(-65°C: 30 minutes → 15 to 35°C: 5 minutes max. 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
8. Resistance to Soldering heat	No deformation of components affecting performance.	Flow: 260°C for 10 seconds
		Manual soldering: 300°C for 3 seconds

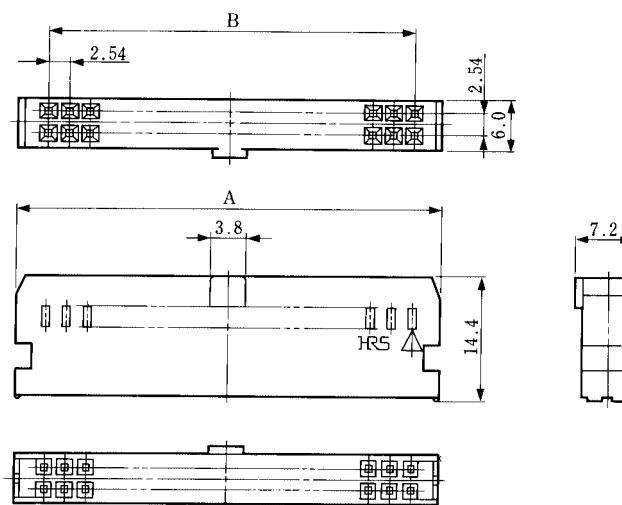
Note 1: Includes temperature rise caused by current flow.

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
Socket Contact	D	Beryllium copper	Connection area	Gold plated	_____
			Connection area	Gold plated	
	DA	Copper alloy	Connection area	Gold plated	
			Connection area	Tin lead plated	
Pin header contact	Brass		Selective Gold plated		_____

## ■Socket for Crimping



Unit: mm

Part Number	CL No.	Number of Contacts	A	B	Polarizing Guide
HIF3BA-10D-2.54C	610-1041-0	10	17.25	10.16	One at center
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	
HIF3BA-26D-2.54C	610-1044-8	26	37.55	30.48	
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				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				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				One at center