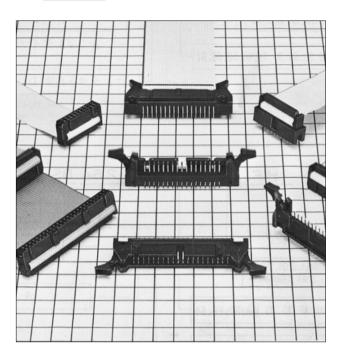
Ribbon Cable connector Compliant with MIL Standard

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

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 μ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 direction		
5. Humidity (Steady state)	Insulation resistance: 1000M ohms min.	96 hours at temperature of 40°C and humidity of 90% to 95%		
C. Tamparatura Cuala	No domago avagles or norta lacconaca	(-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. Danietana ta Caldarina haat	No. of the second of the secon	Flow: 260℃ for 10 seconds		
8. Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 300°C for 3 seconds		

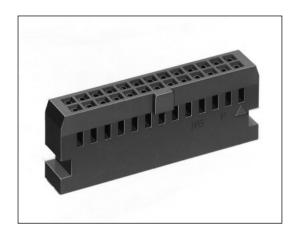
Note 1: Includes temperature rise caused by current flow.

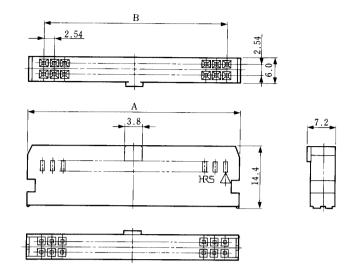
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

■Material

Part	Material			Remarks	
Insulator		PBT	Black		UL94V-0
	D D	Don Hirron conner	Connection area	Gold plated	
Socket Contact	D	Beryllium copper	Connection area	Gold plated	
Socket Contact	DA	0	Connection area	Gold plated	
	DA Copper alloy		Connection area	Tin lead plated	
Pin header contact	Brass		Selecti	ve Gold plated	

■Socket for Crimping



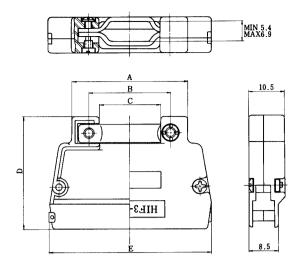


Unit: mm

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 of 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	60	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	10.14	One at center				

■Cover Case for Crimping socket



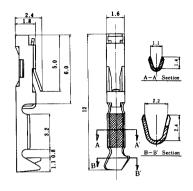


Unit: mm

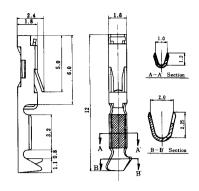
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е
HIF3-20CV	562-0201-0	20	24.5	18.0	12.0	30.5	29.95
HIF3-26CV	562-0202-2	26	30.2	20.0	14.0	32.0	37.55
HIF3-30CV	562-0203-5	30	32.2	22.0	16.0	33.0	42.63
HIF3-34CV	562-0204-8	34	34.2	24.0	18.0	33.5	47.75
HIF3-40CV	562-0205-0	40	36.2	26.0	20.0	35.5	55.35
HIF3-50CV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

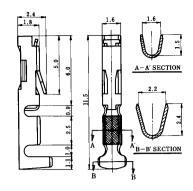
■Contact for Crimping Socket



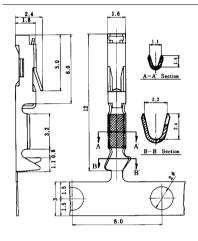




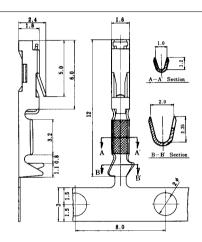
	gold plated contact in bag				
562-0246-8	Selective gold plated contact in bag				
AWG#24 to #28	B UL 1007 Stranded wire				
HIF3-TA2428HC					
	562-0246-8 AWG#24 to #28				



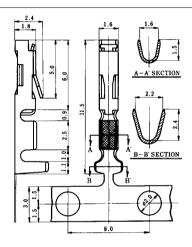
HIF3-2022SC 562-0492-4 gold plated contact in bag Applicable cable AWG#20 to #22 UL 1007 Stranded wire Manual crimping tool HIF3-TA2022HC



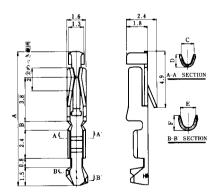
HIF3-2226SCF 562-0080-7 gold plated contact in reel ★ HIF3-2226SCFA 562-0245-5 Selective gold plated contact in reel Applicable cable AWG#22 to #26 UL 1007 Stranded wire Note: * products have both side careers.



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 UL 1007 Stranded wire



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

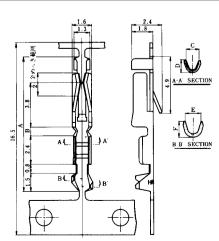


Type VA (Selective gold plated contact in bag)

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Part Number			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

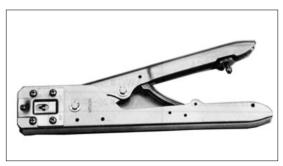
Type VA (Selective gold plated in reel)

Part Number		Applicable Cable	Α					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



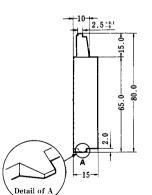
Manual Crimping Tool HIF3-T2226HC

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

● Automatic Crimping Tool (Type: CM-105)



●Contact Extraction Tools



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

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

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.

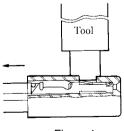


Figure 1

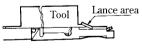


Figure 2

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".

