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Ribbon Cable Connector

HIF4 Series



Features

1. Current Capacity

The HIF4 series connector is capable of 3 A current capacity used for wider applications, while the HIF3 series uses 1 A capacity.

2. Full Lock Mechanism

This connector is equipped with a Hirose original locking mechanism, and guarantees excellent reliability for vibration and shock.

3. One-touch Insertion and Extraction Mechanism

This connector is equipped with levers for automatic insertion and extraction, as soon as lock is reset. Insertion and extraction tools are not required.

4. Applicable Cable

The applicable cable is UL2651 AWG#24 flat cable (7 cores./0.203mm, jacket dia :1.0 to 1.2mm).

Applications

Computers, terminal equipment, various kinds of electronic equipment, and office automation machines

Product Specifications

Doting	Current rating : 3A	Operating Temperature Range : −55 to +85℃ (Note 1)	Storage Temperature Range : -10 to +60°C (Note 2)
Rating	Voltage rating : 300V 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.	1000V AC/1 minute			
3. Contact Resistance 15m ohms max		0.1A			
4. Vibration No electrical discontinuity of 1µs 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%			
	No domogo, orosko, or porto locoopoco	(-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. Operating Life Contact resistance: 15m ohms max.		500 cycles			
9. Desistance to Coldering heat	No deformation of components offecting performance	Solder bath: 260℃ for 10 seconds			
o. Resistance to Soldening heat	No deformation of components affecting performance.	Manual soldering: 360°C for 5 seconds			

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to product 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.

Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

Note 4: Please note that there is a risk of deforming the lock when an excessive load is applied to the inside.

■Material

Part		Material	Finish	Remarks
Insulator		PBT	Black	UL94V-0
Contact	Socket	Beryllium copper	Gold plated over nickel underplating	
Contact	Pin header	Phosphor bronze	Gold plated over nickel underplating	

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■Ordering Information

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Pin Header

<u>HIF4</u> - <u>*</u> P	- <u>3.18</u> <u>DS</u>
0 0 0	4 5
Series Name	: HIF4
Number of Contacts	: 16, 20, 26, 34, 40
Contact alignment	: P : Pin header
Ontact Pitch	: 3.18mm
Contact Type	
DS : Right a	angle type
SA : Straigh	nt dip type
W : Wrapp	ing type

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Socket

<u>HIF4</u> - <u>*</u> <u>D</u>	- <u>3.18</u> <u>R</u>				
1 2 3	4 5				
Series Name	: HIF4				
Number of Contacts	: 16, 20, 26, 34, 40				
Contact alignment	: D : Double				
Contact Pitch	: 3.18mm				
Connection type	: Ribbon cable				

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Socket





Unit:mm

						0111111
Part Number	CL No.	Number of Contacts	А	В	С	RoHS
HIF4-16D-3.18R	563-0025-5	16	31.98	22.26	26.28	
HIF4-20D-3.18R	563-0010-8	20	38.34	28.62	32.64	
HIF4-26D-3.18R	563-0011-0	26	47.88	38.16	42.18	YES
HIF4-34D-3.18R	563-0012-3	34	60.6	50.88	54.9	
HIF4-40D-3.18R	563-0029-6	40	70.14	60.42	64.44	
HIF4-40D-3.18R	563-0029-6	40	70.14	60.42	64.44	

Pin Header Right Angle Type





Unit:mm

Part Number	CL No.	Number of Contacts	А	В	С	D	E	F	RoHS
HIF4-16P-3.18DS	563-0026-8	16	46.68	32.18	22.26	42.82 63.28	39.98	33.58	
HIF4-20P-3.18DS	563-0001-7	20	53.04	38.54	28.62	<u>49.18</u> 69.64	46.34	39.94	
HIF4-26P-3.18DS	563-0002-0	26	62.58	48.08	38.16	<u>58.72</u> 79.18	55.88	49.48	YES
HIF4-34P-3.18DS	563-0003-2	34	75.3	60.8	50.88	<u>71.44</u> 91.90	68.6	62.2	
HIF4-40P-3.18DS	563-0030-5	40	84.84	70.34	60.42	<u>80.89</u> 101.44	78.14	71.74	

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Pin Header Straight Through hole Type





Unit:mm

3.18

Part Number	CL No.	Number of Contacts	А	В	С	D	E	F	RoHS
HIF4-16P-3.18DSA	563-0027-0	16	46.68	32.18	22.26	<u>42.82</u> 63.28	39.98	33.58	
HIF4-20P-3.18DSA	563-0004-5	20	53.04	38.54	28.62	<u>49.18</u> 69.64	46.34	39.94	
HIF4-26P-3.18DSA	563-0005-8	26	62.58	48.08	38.16	<u>58.72</u> 79.18	55.88	49.48	YES
HIF4-34P-3.18DSA	563-0006-0	34	75.3	60.8	50.88	71.44 91.90	68.6	62.2	
HIF4-40P-3.18DSA	563-0031-8	40	84.84	70.34	60.42	<u>80.98</u> 101.44	78.14	71.74	

■Pin Header Wrapping Type





<u>i0.64</u>	3.18

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Unit:mm

Part Number	CL No.	Number of Contacts	А	В	С	D	E	F	RoHS
HIF4-16P-3.18W	563-0028-3	16	46.68	32.18	22.26	42.82 63.28	39.98	33.58	
HIF4-20P-3.18W	563-0007-3	20	53.04	38.54	28.62	<u>49.18</u> 69.64	46.34	39.94	
HIF4-26P-3.18W	563-0008-6	26	62.58	48.04	38.16	<u>58.72</u> 79.18	55.88	49.48	YES
HIF4-34P-3.18W	563-0009-9	34	75.3	60.8	50.88	71.44 91.90	68.6	62.2	
HIF4-40P-3.18W	563-0032-0	40	84.84	70.34	60.42	<u>80.98</u> 101.44	78.14	71.74	

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●PCB mounting pattern

•Pin Header Right Angle Type



•Pin Header Straight Through hole Type or Pin Header Wrapping Type



•Type Shape



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Contact positions are designated with marks as shown below.



According to the illustration on the left, the illustration 1 indicates these positions on the right.

Note 1: Cable length tolerance 500 +10, 0 max. (mm) 500 +3%, 0% min. Note 2.When a twist cable or a slit (like a roller screen) cable is used, the cable pitch will change according to cable manufacturers. If connection failure has occurred, consult HRS Sales Department.