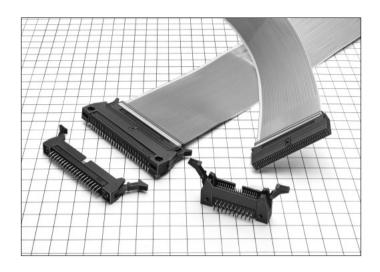
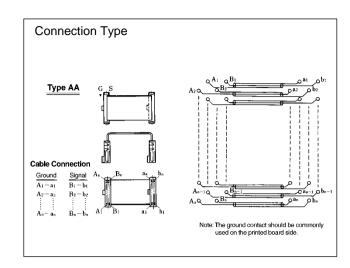
1.27 Pitch Coaxial Ribbon Cable Connector

HIF6R Series





■Features

1.Coaxial Ribbon Cable Connector

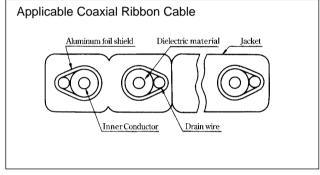
Assemble 1.27mm pitch coaxial ribbon cable AWG#30 in insulation displacement at a time. Usable cable characteristic impedance is 50 ohms.

2. Compatibility

The pin header side is HIF3 series.

3. Short Preventive Mechanism

The socket side is equipped with a convex portion in order to prevent false-insertion.



■Applications

Computers, peripheral and terminal equipment, communication transmission equipment, medical electronic apparatuses, measuring instruments, other various office automation machines, etc.

■ Product Specifications

Rating		rent rating: 0.5A age rating: 30V AC	Operating Temperature Range:-55 to +85℃ (Note 1) Storage Temperature Range:-10 to +60℃ Operating Humidity Range:40 to 80% Storage Humidity Range: 40 to 70						
Item		Spe	cification	Condition					
1.Insulation Resistance		1000M ohms min.		250V DC					
2.Withstanding	voltage	No flashover or insula	tion breakdown.	300V AC/1 minute					
3.Contact Resistance		e 30m ohms max.		0.1mA					
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%					
6.Temperature Cycle		No damage, cracks, c	or parts looseness.	(-65°C: 30 minutes→15 to 125°C: 30 minutes→15 to	35℃: 5 minutes max. 35℃: 5 minutes max.)5 cycles				
7.Durability (Mating/un-mating)		Contact resistance: si	gnal: 30m ohms max	500 cycles					
8.Resistance to		No deformation of		Flow: 260℃ for 10 seconds					
Soldering hea	at	components affecting	performance.	Manual soldering: 300℃ 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	Copper alloy	Selective gold plated	
Metal clamp	Stainless steel		

■Ordering Information

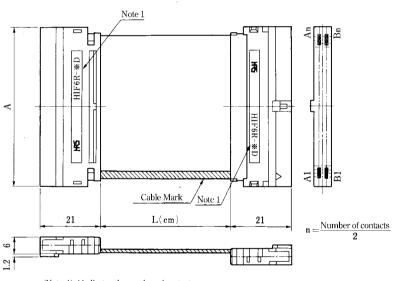
$$\frac{\mathsf{HIF6}}{\bullet} \quad \frac{\mathsf{R}}{\bullet} - \frac{*}{\bullet} \quad \frac{\mathsf{S}}{\bullet} \quad \frac{\mathsf{D}}{\bullet} - \frac{\mathsf{AA}}{\bullet} - \frac{\mathsf{L}}{\bullet}$$

0	Series Name: HIF
2	Coaxial ribbon cable: R
6	Number of Contacts: 40, 80, 100
4	S: Socket
6	D: Characteristic impedance: 50 ohms
0	Cable length (cm)
	Shortest: 10cm

■Socket

● Type AA (50 ohms)





(Note: 1) *indicates the number of contacts.

Unit: mm

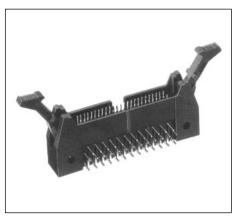
Part Number	CL No.	Number of Contacts	Α	
HIF6R- 40SD-AA-L	630-7003-8	40	31.25	
HIF6R- 80SD-AA-L	630-7002-5	80	56.65	
HIF6R-100SD-AA-L	630-7001-2	100	69.35	

■Pin Header

HIR6R series engages in or from the pin header mounted on the printed board.

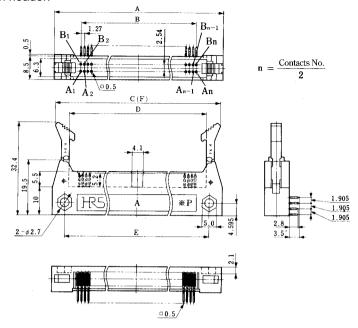
Please use the HIF6H series connector for the pin header.

● HIF6H Right Angle Type



●PCB mounting pattern

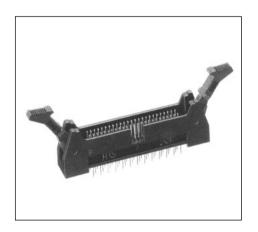
Mating Side 1.905 ± 0.05 E ± 0.1



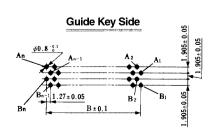
Unit: mm

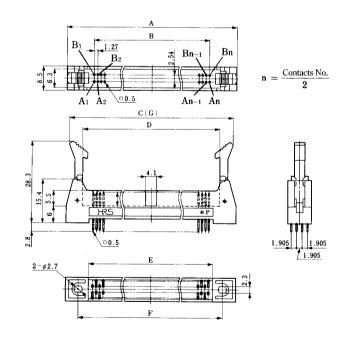
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F
HIF6H- 40PA-1.27DS	630-0161-0	40	43.65	24.13	42.05	31.45	34.29	63.45
HIF6H- 80PA-1.27DS	630-0164-9	80	69.05	49.53	67.45	56.85	59.69	88.85
HIF6H-100PA-1.27DS	630-0165-1	100	81.75	62.23	80.15	69.55	72.39	101.5

● HIF6H Straight Type



●PCB mounting pattern

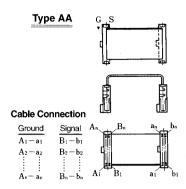


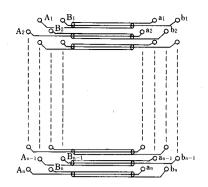


U	Init:	mm
U	Init:	mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G
HIF6H-40PA-1.27DSA	630-0171-4	40	43.65	24.13	42.05	31.45	27.65	34.29	63.45
HIF6H-80PA-1.27DSA	630-0174-2	80	69.05	49.53	67.45	56.85	53.05	59.69	88.85
HIF6H-100PA-1.27DSA	630-0175-5	100	81.75	62.23	80.15	69.55	65.75	72.39	101.55

● Connection Circuit Diagram

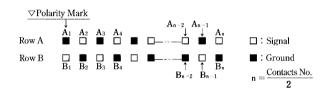




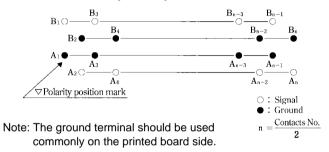
Note: The ground terminal should be used commonly on the printed board side.

◆Signal Alignment

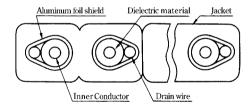
● Socket (Cable) side



● Pin Header (Board) Side



● Coaxial Ribbon Cable Specification



- ●Cautions for Handling Cables
 - (1) Don't round the cable.
 - (2) Don't fold the cable in two at bending radius R25 or less (180 deg.).
 - (3) Don't fold the cable in two in order to change the direction. Coaxial Ribbon Cable Specification

Electr	Impedance	50±5 ohms			
ical Cr	Static Capacitance	80PF/m			
Electrical Characteristics	Delay Time	3.9ns/m			
ristics	Max. Conductor Resistance	360 ohms/km			
_	Inner Conductor	ϕ 0.26mm, silver plated copper wire			
Jsat	Dielectric material	Foaming fluorine resin			
Usable Materials	External conductor	Aluminum foil ϕ 0.26mm, silver plated copper wire			
erial	Jacket	PVC (gray)			
	Cable mark	Yellow			
Size (Core wire number	20,40,50			
Construction	Thickness	1.2mm			
uction	Width	*N×1.27mm			
	UL Style No.	20182			

Note: N= number of contacts