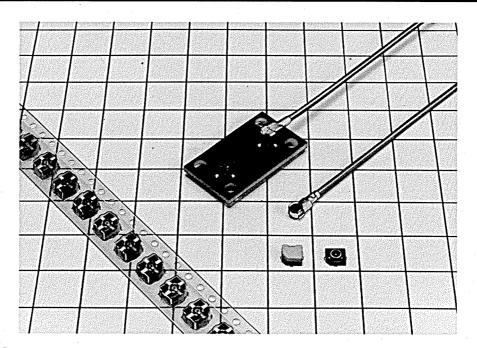
HS H. FL SERIES

The world's smallest low-profile coaxial connectors H. FL Coaxial Connectors

OUTLINE

The H.FL series of coaxial connectors consists of the world's smallest surface-mount low profile coaxial connectors.

The H.FL connectors have a lower profile, with a mounted height of approximately 30% that of our S.FL2 connectors. They occupy 20% less board space, allowing higher density internal wiring.



FEATURES

- (1) Height off printed circuit board of 3mm when connected (lowest in the world).
- (2) High frequency response of V.S.W.R 1.3 or less from D.C., A.C.1 to 3000 MHz.
- (3) Compressed wire system used on the cable side connector for both the center and exterior, providing stable connection quality. For the external conductor compression part, the shielded wire is compressed between metal, providing stability with respect to fluctuations in heat.
- (4) Wiring is possible with ultra-thin teflon cables with an external diameter of φ1.48, making high density internal wiring possible.
 - Compatible with the Junkosha DFS111-UL1979, the Hitachi CO-6F and FH-SB cables, as well as other cables in the future.

- (5) The connector can be easily removed with an extraction jig.
- (6) Emboss taping makes automatic mounting possible. In addition, connectors with caps are available for use with all types of mounters.
- (7) Connection can be easily verified. Despite the ultra small size, a locking feeling is provided making it possible to check that the connector is securely connected.
- (8) The connectors are equipped with an scoop-proof mechanism protecting against mis-insertion.
- (9) A cut is provided on the circuit board side connector, making it simple to check the direction after mounting.

APPLICATIONS

Portable telephones, cellular telephones, wireless communications devices, electronic measuring equipment, GPS, etc.

■ MATERIALS and TREATMENT

Part name	Material	Treatment Silver plating	
Shell	Phosphor bronze		
Insulator	PBT plastic (plug side) Liquid crystal polymer (receptacle side)	Black Black	
Male center contact	Bronze	Gold plating	
Female center contact	Phosphor bronze	Gold plating	

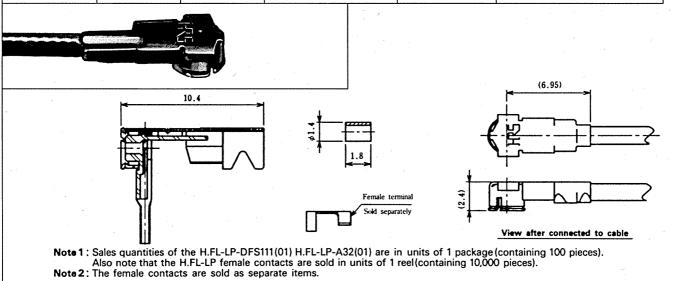
PERFORMANCE

Item	Rated value		
Characteristic impedance	50 Ω		
Insulation resistance	500MΩ or greater at DC 250V		
Contact resistance	$20m\Omega$ (center), $10m\Omega$ (exterior) at DC 10mA		
Dielectric strength	AC 300V (r.m.s), 1 minute		
Contact service life	50 times		
Voltage standing wave ratio	tio 1.3 or less, DC to 3000MHz (target value)		

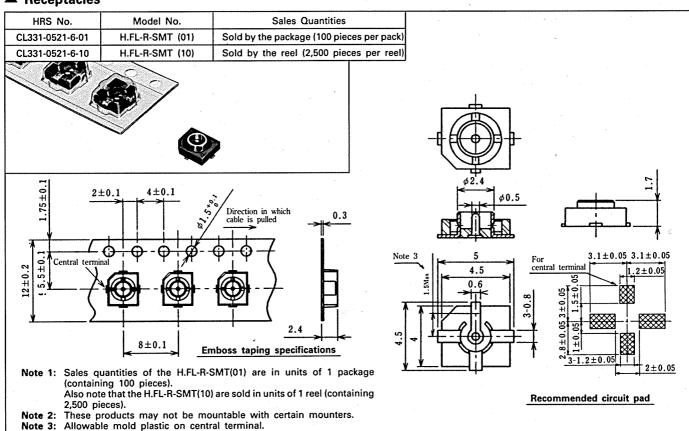
■ PRODUCT INFORMATION

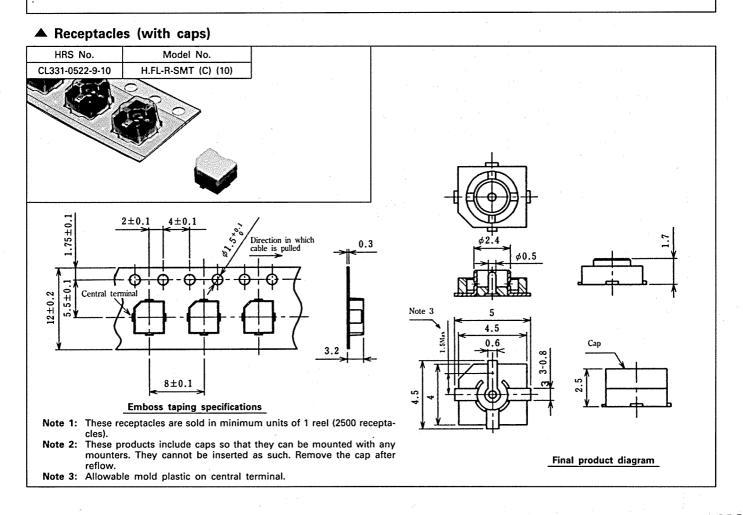
▲ L-shaped plugs

Item	HRS No.	Model No.	Sales Quantities	Applicable cable	A Dimension	B Dimension
	CL331-0503-4-01	H.FL-LP-DFS111(01)	Sold by the package (100 pieces per pack)	Hitachi CO-6F and FH-SB Junkosha DFS111-UL1979 Sumitomo 0.8DS-PBE	10.4	(6.95)
Right-angle plug shell	CL331-0504-7-01	H.FL-LP-A32 (01)	Sold by the package (100 pieces per pack)	Junkosha A(2BO733)	10.8	(7.35)
	CL331-0506-2	H.FL-LP-1.25S(01)	Sold by the package (100 pieces per pack)	Hitachi 1-25C-6FFH	10.4	(6.95)
Female contact	CL331-0511-2	H.FL-LP Female contacts	Sold by the reel (10,000 contacts per reel)	Common cable is Used as above	:	

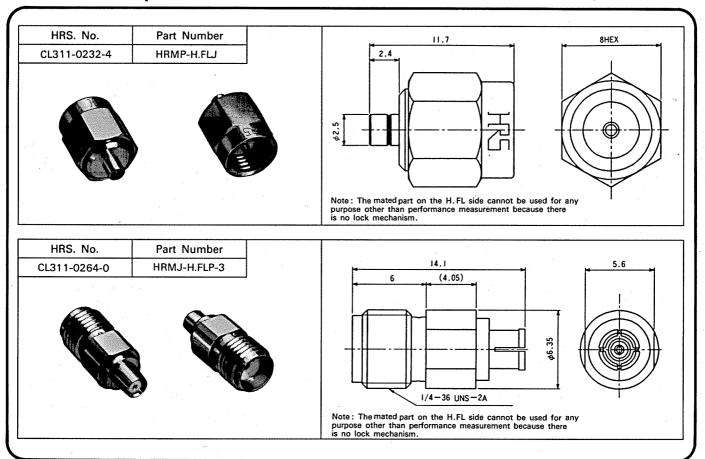


▲ Receptacles

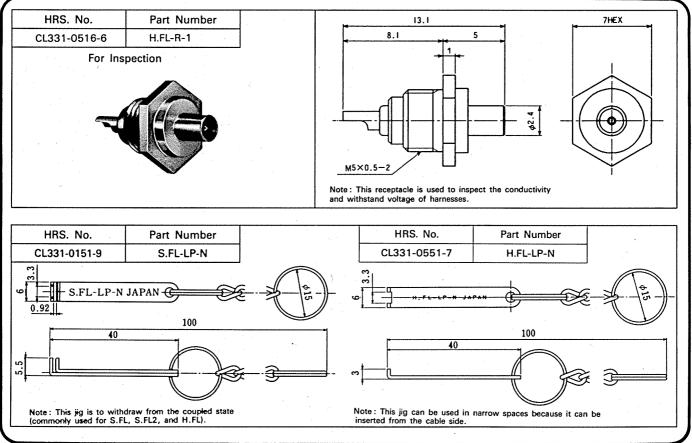




▲ Converter Adapters

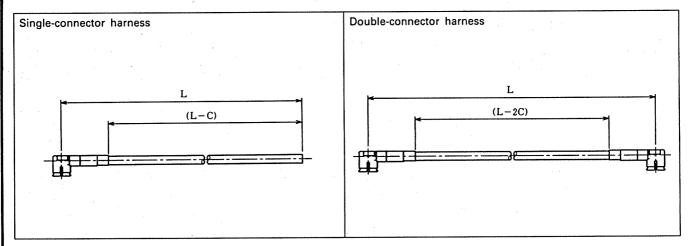


▲ Attachments



HARNESSED MODELS

For harnessed H.FL series, follow the dimensions specified below.



Specify the dimensions from the center of connectors for both single- and double-connector harnesses. Standard dimensional tolerances are as follows:

Overall length	Tolerance	
35 ~ 200	±4	
201 ~ 500	±8	
501 ~ 1000	±12	
1001 ~	±1.5%	

Note: Minimum length: 35 mm

C Dimensions

H.FL-LP-DFS111: 6.95 H.FL-LP-A32: 7.35

PRECAUTIONS FOR HANDLING

Plug

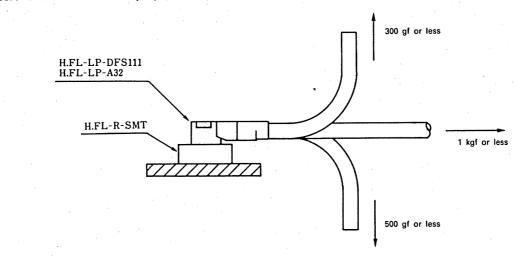
• Connector insertion and extraction

- a. Hook the tip of the S.FL-LP-N or H.FL-LP-N on the lid, and insert/extract the connector vertically along the connector mating axis. Be sure to hold the connector body when inserting/extracting the connector. Never hold the cable when extracting the cable because it damages the connector.
- b. Insert the connector as perpendicularly to the

mating surface as possible by aligning the mating axes of both connectors. Do not excessively slant the connectors when inserting.

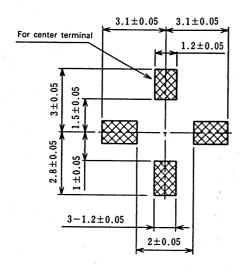
 Allowable loads on the cable after the connectors are mated.

The figures below show the maximum allowable loads on the cable. Do not apply loads exceeding these values to the cable.



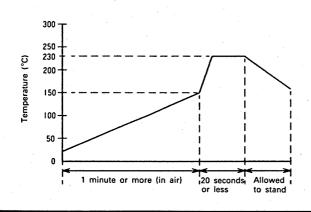
▲ Receptacle

• Dimensions of the land in boards



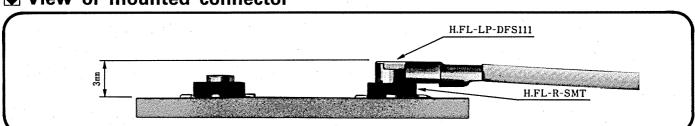
- For land dimensions, strictly follow the values given in the Figure on the left. Otherwise, flux and solder wicking could occur.
- A screen thickness of 0.15 to 0.25 mm is recommended for solder paste printing.

• Packaging temperature profile (reference)



(Note) Complete reflow soldering within 5 seconds at the board surface peak temperature of 240°C or less. The packaging temperature profile varies depending on the board size, type of solder used, and solder thickness.

♦ View of mounted connector



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