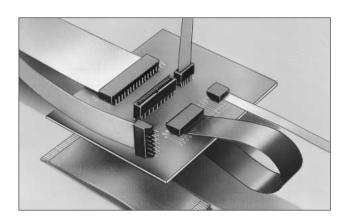


1.25mm Pitch FPC/FFC Connector

FH3 Series



■Features

1. 1.25mm FPC and FFC DIP Connector The contact pitch is 1.25mm.

2. Contact Reliability

This connector has high contact reliability for high voltage contact.

3. Sixteen Types of Contact Numbers

This connector consists of 16 kinds of 6, 8, 9, 10, 12, 13, 14, 15, 15, 17, 18, 19, 20, 21, 22, 24, and 30 contacts.

■Applications

HDD, facsimiles, printers, VTR, etc.

■Product Specifications

	Rated Current: 1A	Operating Temperature Range:-40~+85°C (Note 1)	Storage Temperature Range:-10~+60°C (Note 2)		
Rating		Operating Humidity Range:Relative humidity, 90% max.	Storage Humidity Range:Relative humidity, 90% max.		
		(Not dewed)	(Not dewed)		

Applicable FPC	t=0.2~0.35 Tin plating

Item	Specification	Condition				
1. Insulation Resistance	500MΩ min.	Measured at 500V DC				
2. Withstand voltage	Neither short or breakdown should occur	500V AC for 1 minute				
3. Contact Resistance	20mΩ max.	Measured at 0.1A				
3. Contact Hesistance	* FPC conductor resistance included	ivieasureu at U. IA				
4. Mechanical operation	Contact resistance: 40mΩ max.	30 cycles				
4. Mechanical operation	No part should be broken, cracked or loosened	30 Cycles				
5. Vibration	No part should be broken, cracked or loosened	Frequency: 10~55Hz and full amplitude 1.50mm in 3 directions for 2 hours, respectively				
6. Shock	No part should be broken, cracked or loosened	Acceleration: 490m/S2, duration: 11ms, sine half-wave: in 3 directions for 3 times, respectively				
7. Moisture Resistance in Steady State	Insulation resistance: 50MΩ min.	Exposed to temperature 40°C and humidity 90~95% for 96 hours				
		5 cycles under conditions as follows;				
8. Temperature Cycle	No part should be broken, cracked or loosened	Temperature: -55°C→+15~+35→+85→+5~+35°C				
		Time: 30→5 max.→ 30→5 max. for 5 minutes				

Note 1. Temperature rise included when energized

Note 2. This storage indicates a long-term storage state for the unused product before board mounted. The operating temperature and humidity ranges are applied to the non-energized state after the connector has been installed in the board.

Note 3. The above standards represent this series. The individual formal agreement should be based on the "Specification".

■Material

Part	Material	Finish	Remarks		
Insulator	PBT	Black	UL94V-0		
Contact	Phosphor bronze	Tin plating			

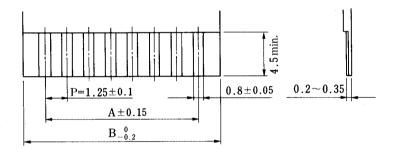
■Ordering Information

Please determine the specific product. If needed, please select and order the product from the product No. as listed on catalog page D8 and D9.

$$\frac{FH}{q} \frac{3}{w} - \frac{17}{e} \frac{S}{r} \frac{1.25}{t} \frac{DS}{y} \frac{(01)}{u}$$

q Series Name : FH	t Contacts Pitch : 1.25mm
w Series No. : 3	y Contact Style : DS : Right angle type
e Number of Contacts : 4, 6, 8, 10, 12, 13, 14, 15, 16,	DSA : Straight type
17, 18, 19, 20, 22, 24, 30	u (01): Tube
r Contact alignment : Single	

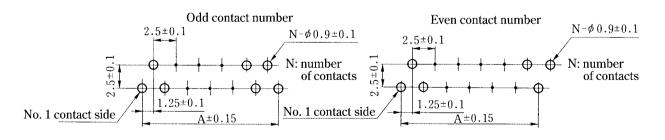
■FPC · FFC Dimensions



Unit: mm

Number of Contacts Size	4	6	8	10	12	13	14	15	16	17	18	20	22	24	30
Α	3.75	6.25	8.75	11.25	13.75	15	16.25	17.5	18.75	20	21.25	23.75	26.25	28.75	36.25
В	6.25	8.75	11.25	13.75	16.25	17.5	18.75	20	21.25	22.5	23.75	26.25	28.75	31.25	38.75

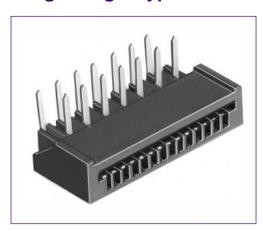
● PCB Footprints

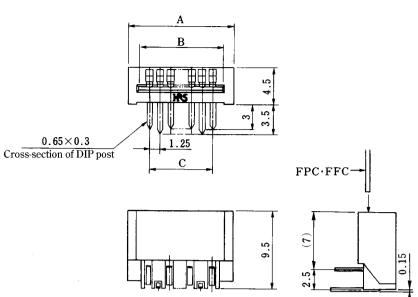


Unit: mm

Number of Contacts Size	4	6	8	10	12	13	14	15	16	17	18	20	22	24	30
Α	2.5	5	7.5	10	12.5	15	15	17.5	17.5	20	20	22.5	25	27.5	35

■Right Angle Type

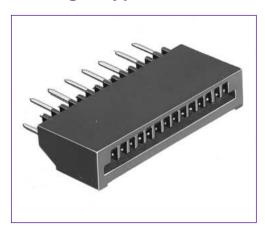


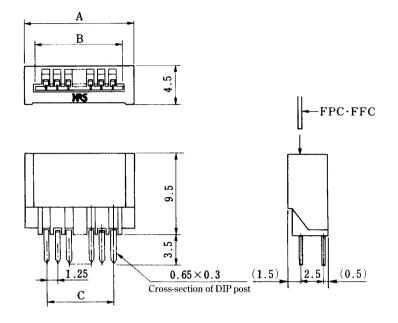


Unit:mm

Product No.	HRS No.	Number of Contacts	А	В	С	Tube Case Packed Quantity
FH3- 4S-1.25DS(01)	CL586-0038-0-01	4	8.70	6.27	3.75	55
FH3- 6S-1.25DS(01)	CL586-0065-3-01	6	11.20	8.77	6.25	42
FH3- 8S-1.25DS(01)	CL586-0039-3-01	8	13.70	11.27	8.75	35
FH3-10S-1.25DS(01)	CL586-0057-5-01	10	16.20	13.77	11.25	29
FH3-12S-1.25DS(01)	CL586-0058-8-01	12	18.70	16.27	13.75	25
FH3-13S-1.25DS(01)	CL586-0040-2-01	13	19.95	17.52	15.00	24
FH3-14S-1.25DS(01)	CL586-0041-5-01	14	21.20	18.77	16.25	22
FH3-15S-1.25DS(01)	CL586-0078-5-01	15	22.45	20.02	17.50	21
FH3-16S-1.25DS(01)	CL586-0047-1-01	16	23.70	21.27	18.75	20
FH3-18S-1.25DS(01)	CL586-0081-0-01	18	26.20	23.77	21.25	17
FH3-20S-1.25DS(01)	CL586-0048-4-01	20	28.70	26.27	23.75	16
FH3-22S-1.25DS(01)	CL586-0049-7-01	22	31.20	28.77	26.25	15
FH3-24S-1.25DS(01)	CL586-0060-0-01	24	33.70	31.27	28.75	14
FH3-30S-1.25DS(01)	CL586-0050-6-01	30	41.20	38.77	36.25	11

■Straight Type





Unit:mm

Product No.	HRS No.	Number of Contacts	Α	В	С	Tube Case Packed Quantity
FH3- 4S-1.25DSA(01)	CL586-0043-0-01	4	8.70	6.27	3.75	55
FH3- 6S-1.25DSA(01)	CL586-0069-4-01	6	11.20	8.77	6.25	42
FH3- 8S-1.25DSA(01)	CL586-0044-3-01	8	13.70	11.27	8.75	35
FH3-10S-1.25DSA(01)	CL586-0061-2-01	10	16.20	13.77	11.25	29
FH3-12S-1.25DSA(01)	CL586-0062-5-01	12	18.70	16.27	13.75	25
FH3-13S-1.25DSA(01)	CL586-0052-1-01	13	19.95	17.52	15.00	24
FH3-14S-1.25DSA(01)	CL586-0045-6-01	14	21.20	18.77	16.25	22
FH3-16S-1.25DSA(01)	CL586-0053-4-01	16	23.70	21.27	18.75	20
FH3-17S-1.25DSA(01)	CL586-0063-8-01	17	24.95	22.52	20.00	19
FH3-18S-1.25DSA(01)	CL586-0080-7-01	18	26.20	23.77	21.25	17
FH3-20S-1.25DSA(01)	CL586-0054-7-01	20	28.70	26.27	23.75	16
FH3-22S-1.25DSA(01)	CL586-0055-0-01	22	31.20	28.77	26.25	15
FH3-24S-1.25DSA(01)	CL586-0064-0-01	24	33.70	31.27	28.75	14
FH3-30S-1.25DSA(01)	CL586-0056-2-01	30	41.20	38.77	36.25	11