

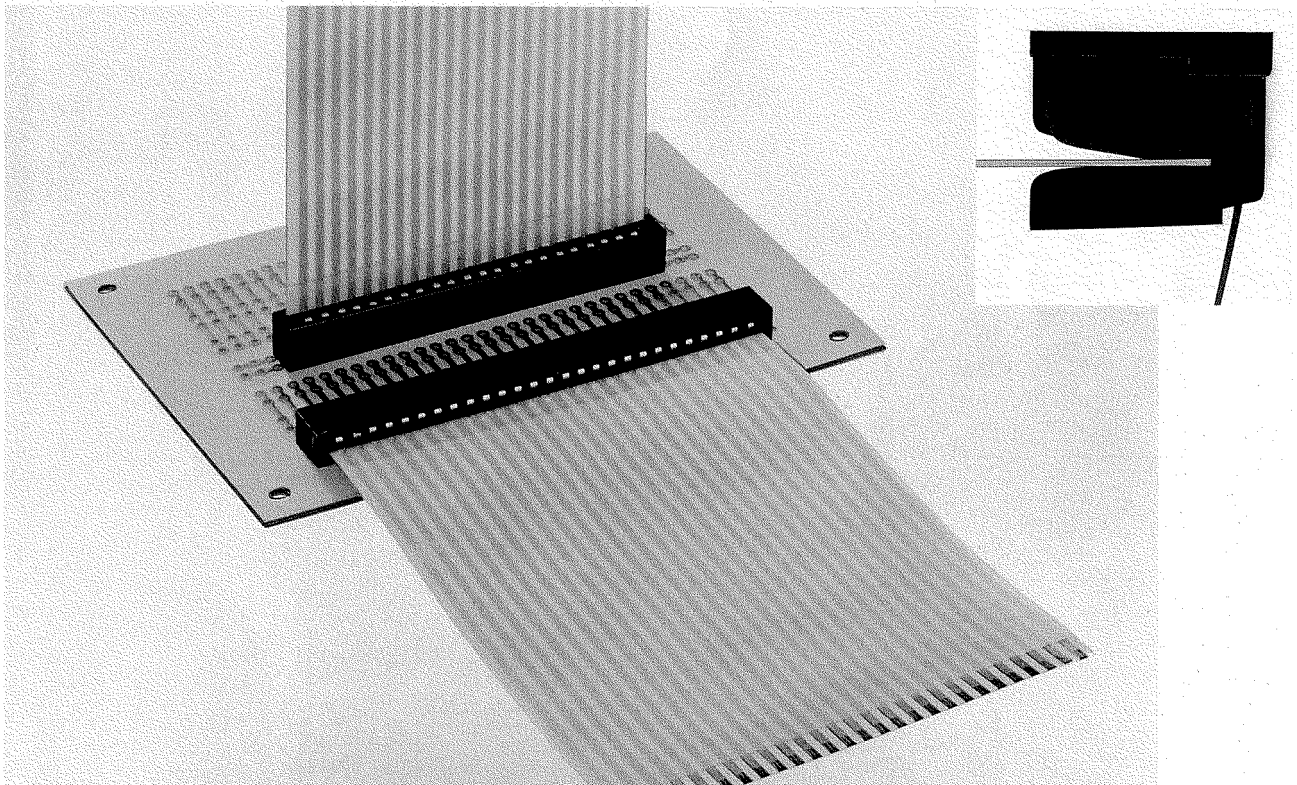
HRS FH1 SERIES

2.54mm (.100") CENTERS FPC & FFC CONNECTORS

■ SCOPE

FH1 series connectors are designed to meet the contemporary needs for such connectors to which FPC (Flexible Printed Circuit) and FFC (Flexible Flat Cable) can be

inserted directly. With a 2.54mm (.100") contact spacing, FH1 series are available in 18 types with number of pin ranging from 5, 8 to 22, 27 and 29.



■ FEATURES

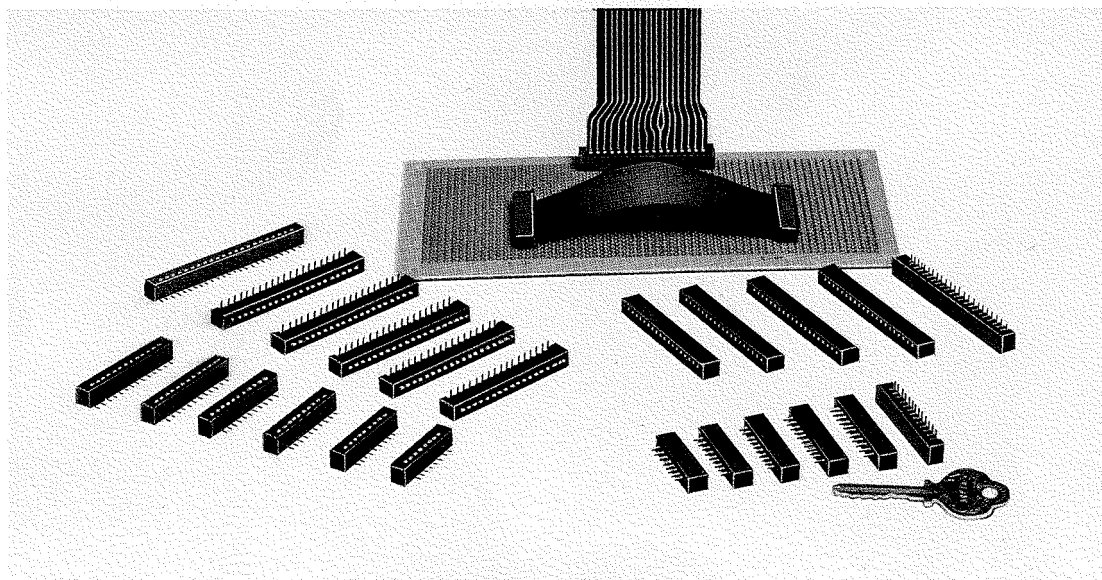
1. UL94V-0 glass reinforced polyester molding resistant to solvent, high temperature and high humidity.
2. Reliable contact performance by high pressure contact pin.
3. Stable performance, enduring many times, about 30, of insertion and extraction
4. Excellent solderability
5. Acceptable cable size: 0.13—0.30mm thick (.0051"—.0118")
6. No. of pin: 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27 and 29 pin.

■ MATERIALS AND PROCESSING

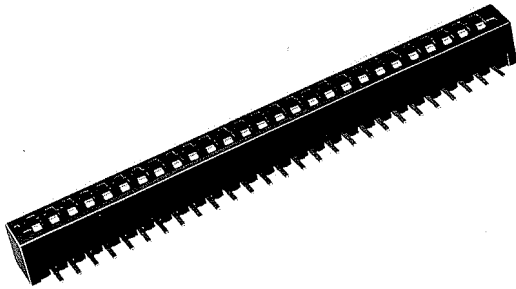
Molding	: Glass-reinforced Polyester, UL94V-0, Black
Contact	: Phosphor Bronze, Tin plated

■ ELECTRICAL PERFORMANCE

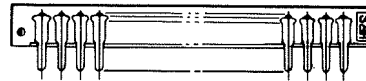
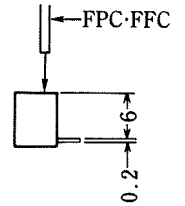
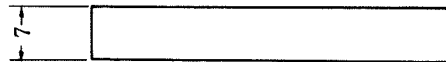
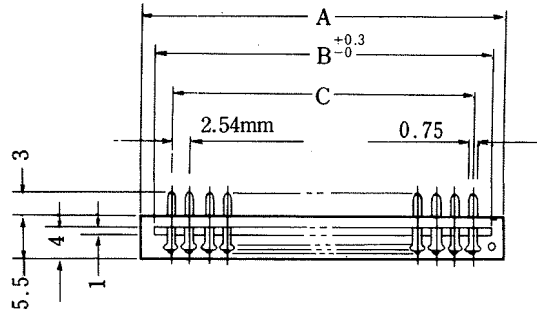
Voltage Rating	: AC200V
Current Rating	: 1A
Withstand Voltage	: AC500V for a minute
Insulation Resistance	: MIN 5000M Ω at DC500V
Contact Resistance	: MAX 15m Ω at DC1A
Insertion & Extraction Force	: 80—500 grs/contact
Durability	: Contact Resistance MAX 40m Ω and Insertion and Extraction Force 50—500 grs/contact after 30 time coupling.
Temperature Cycling	: MIL-STD-202, —55 to +85°C with FPC
Humidity	: MIL-STD-202, Insulation Resistance MIN 100M Ω at DC500V at 40°C, 90—95%, and for 96 hours.
Vibration	: MIL-STD-202, No visual damage nor current break more than 10 micro second at DC 100mA at 10—55Hz with 0.75mm amplitude, in 3 directions for 2 hours.
Shock	: MIL-STD-202, No visual damage nor current break more 10 micro second at DC100mA in 3 directions at 50G
Salt Spray	: MIL-STD-202, No heavy corrosion and Contact Resistance MAX 40m Ω at DC1A at 5%, 35°C salt water spray for 48 hours.
H ₂ S Gas	: JEIDA-25, No heavy corrosion and Contact Resistance MAX 40m Ω at DC1A after setting in 5ppm H ₂ S Gas for 120 hours



RIGHT ANGLE DIP SOLDERING



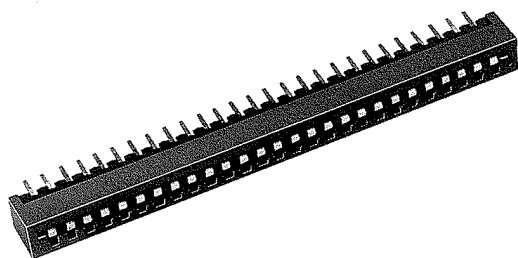
CL586-0007-7
FH1-27S-2.54DS



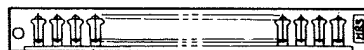
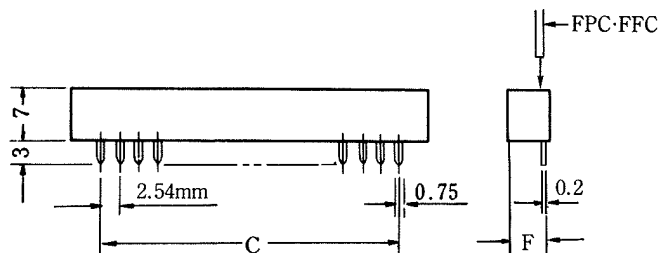
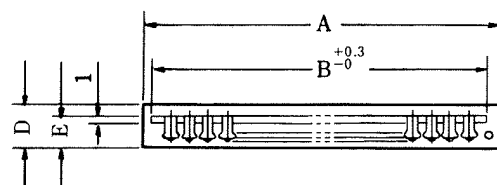
Unit: mm

HRS No.	Product No.	No. of pin	A	B	C
CL586-0015-5	FH1- 8S-2.54DS	8	26.0	23.01	17.78
CL586-0016-8	FH1- 9S-2.54DS	9	28.5	25.55	20.32
CL586-0017-0	FH1-10S-2.54DS	10	31.0	28.09	22.86
CL586-0018-3	FH1-11S-2.54DS	11	33.6	30.63	25.40
CL586-0019-6	FH1-12S-2.54DS	12	36.1	33.17	27.94
CL586-0020-5	FH1-13S-2.54DS	13	38.7	35.71	30.48
CL586-0027-4	FH1-14S-2.54DS	14	41.3	38.25	33.02
CL586-0028-7	FH1-15S-2.54DS	15	43.8	40.79	35.56
CL586-0029-0	FH1-16S-2.54DS	16	46.3	43.33	38.10
CL586-0001-0	FH1-17S-2.54DS	17	48.8	45.87	40.64
CL586-0002-3	FH1-18S-2.54DS	18	51.4	48.41	43.18
CL586-0003-6	FH1-19S-2.54DS	19	53.9	50.95	45.72
CL586-0004-9	FH1-20S-2.54DS	20	56.4	53.49	48.26
CL586-0005-1	FH1-21S-2.54DS	21	59.0	56.03	50.80
CL586-0006-4	FH1-22S-2.54DS	22	61.5	58.57	53.34
CL586-0007-7	FH1-27S-2.54DS	27	73.0	70.00	66.04

STRAIGHT DIP SOLDERING



CL586-0014-2
FH1-27S-2.54DSA



Unit: mm

HRS No.	Product No.	No. of pin	A	B	C	D	E	F
CL586-0036-5	FH1- 5S-2.54DSA	5	18.3	15.39	10.16	5.5	4	4.5
CL586-0021-8	FH1- 8S-2.54DSA	8	26.0	23.01	17.78	5.5	4	4.5
CL586-0023-3	FH1-10S-2.54DSA	10	31.0	28.09	22.86	5.5	4	4.5
CL586-0024-6	FH1-11S-2.54DSA	11	33.6	30.63	25.40	5.5	4	4.5
CL586-0025-9	FH1-12S-2.54DSA	12	36.1	33.17	27.94	5.5	4	4.5
CL586-0026-1	FH1-13S-2.54DSA	13	38.7	35.71	30.48	5.5	4	4.5
CL586-0030-9	FH1-14S-2.54DSA	14	41.3	38.25	33.02	5.5	4	4.5
CL586-0031-1	FH1-15S-2.54DSA	15	43.8	40.79	35.56	5.5	4	4.5
CL586-0032-4	FH1-16S-2.54DSA	16	46.3	43.33	38.10	5.5	4	4.5
CL586-0008-0	FH1-17S-2.54DSA	17	48.8	45.87	40.64	5.5	4	4.5
CL586-0009-2	FH1-18S-2.54DSA	18	51.4	48.41	43.18	5.5	4	4.5
CL586-0010-1	FH1-19S-2.54DSA	19	53.9	50.95	45.72	5.5	4	4.5
CL586-0011-4	FH1-20S-2.54DSA	20	56.4	53.49	48.26	5.5	4	4.5
CL586-0012-7	FH1-21S-2.54DSA	21	59.0	56.03	50.80	5.5	4	4.5
CL586-0013-0	FH1-22S-2.54DSA	22	61.5	58.57	53.34	5.5	4	4.5
CL586-0014-2	FH1-27S-2.54DSA	27	73.0	70.00	66.04	5.5	4	4.5
CL586-0037-8	FH1-29S-2.54DSA	29	79.3	76.35	71.12	6.0	4.5	5.0

■ ORDERING INFORMATION

FH1 — 17S — 2.54 DS

Series No. _____
 No. of contacts _____
 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 29

Pin configuration

S: Single line

Contact spacing

2.54 mm

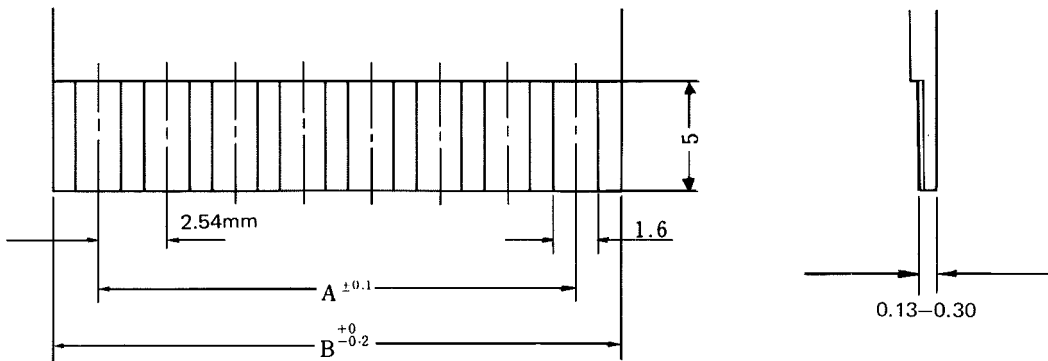
Type of terminal

DS: Right angle dip soldering

DSA: Straight dip soldering

■ SIZE OF FPC AND FFC

Unit: mm



Unit: mm

No. of pin Dimension	5	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	27	29
A	10.16	17.78	20.32	22.86	25.40	27.94	30.48	33.02	35.56	38.10	40.64	43.18	45.72	48.26	50.80	53.34	66.04	71.12
B	15.29	22.91	25.45	27.99	30.53	33.07	35.61	38.15	40.69	43.23	45.77	48.31	50.85	53.39	55.93	58.47	69.90	76.25