

MINIFLEX® 3-BFNH L-HD

0.3 mm pitch, Horizontal mating, Backflip, Hold down type, with long actuator, (Height =0.9 mm)



Product Specifications:

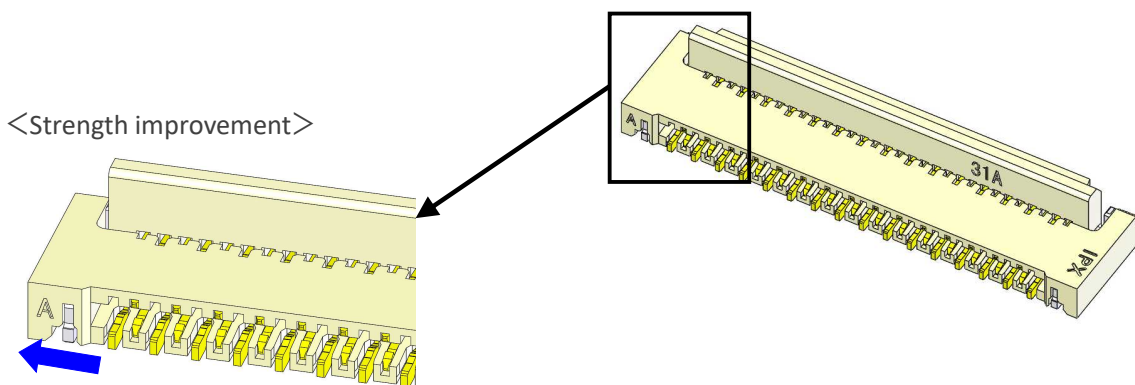
Board Pitch (mm)		0.3
Wiping Length (mm)		Contact A: 0.90 Contact B: 0.45
Size (mm)	Height	0.90 +/- 0.10
	Width	Formula: 1.5 + (0.3*?p)
	Depth	Open: 2.55 Close: 3.50
Pin counts	Range	7-71 (odd)
	Available	39

Applicable FPC/FFC:

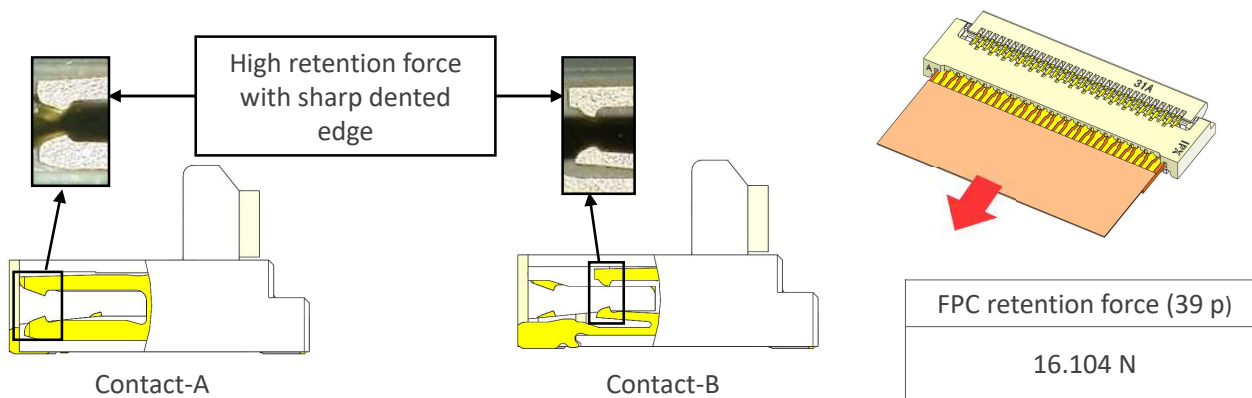
FPC/FFC Contact Pitch	0.3
FPC/FFC Contact Point	Top and Bottom
FPC/FFC Thickness (mm)	0.2 +/- 0.03

* Please inquire for pin counts not listed or outside of the pin count range.

▶ Hold down to improve strength of side wall



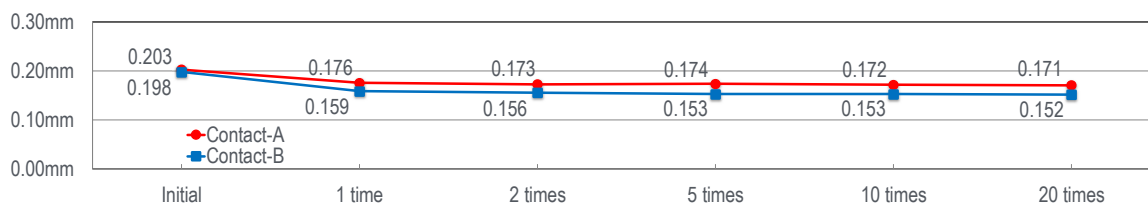
▶ Designed with sharp edge for stronger FPC retention force



▶ Usability for closing actuator without FPC

The connector will still function even if the actuator is accidentally closed without the FPC being inserted after the SMT process

- Connector will still function reliably (contact gap graph 39 pins before and after operating actuator without FPC inserted)

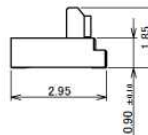
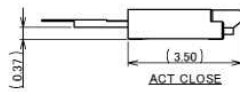
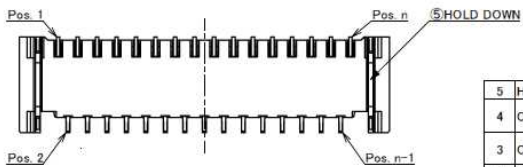
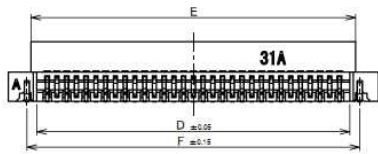
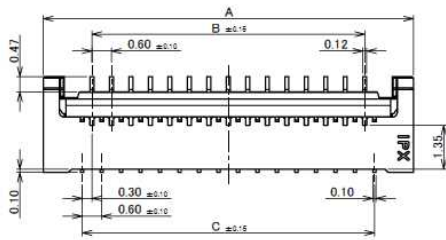


- Insertion force of connector goes up
- Retention force of connector does not change greatly

Component Parts Details

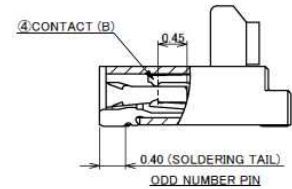
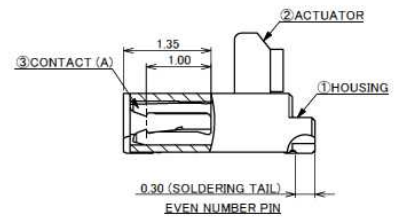
Connector Assembly

Recommended P/N 20660-0**E-01



PART No.	Pos.	A	B	C	D	E	F
◆20660-031E-01	31P	11.40	8.40	8.00	9.85	10.00	10.25
◆20660-039E-01	39P	13.80	10.80	11.40	12.05	12.40	12.65
◆20660-071E-01	71P	23.40	20.40	21.00	21.65	22.00	22.25

◆MARK MEANS NOT AVAILABLE.



NOTES:
1. CONTACT POINT: TOP AND BOTTOM CONTACT

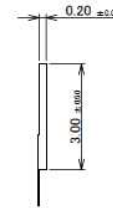
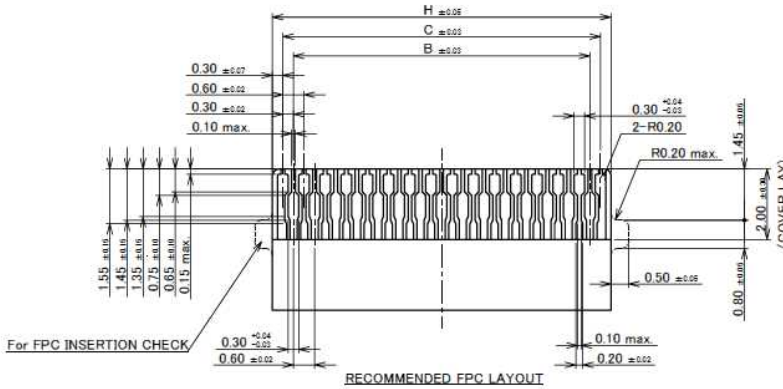
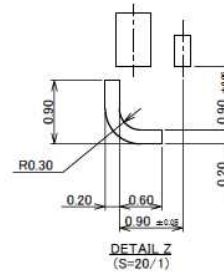
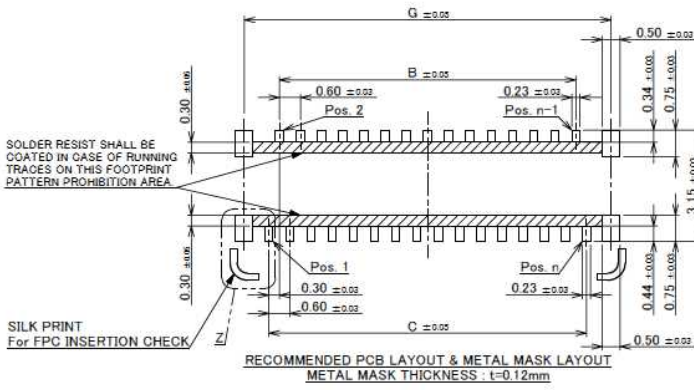
5	HOLD DOWN	BRASS	
4	CONTACT(B)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.0 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.
3	CONTACT(A)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.0 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DISCRPTION	MATERIAL	REMARKS

CAUTION VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-14004 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

Connector Assembly

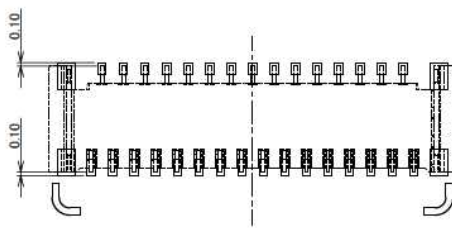
PART No.	Pos.	B	C	G	H
◆20660-031E-01	31P	8.40	9.00	10.40	9.60
◆20660-039E-01	39P	10.80	11.40	12.80	12.00
◆20660-071E-01	71P	20.40	21.00	22.40	21.60

◆MARK MEANS NOT AVAILABLE.

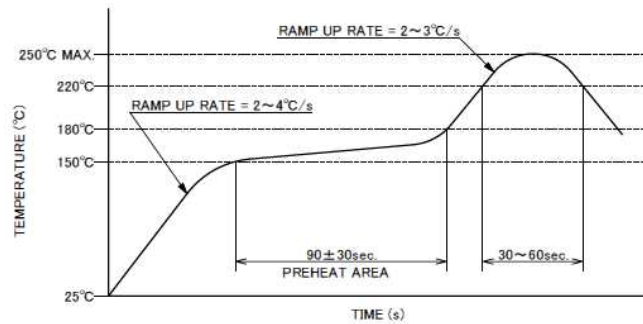


ANGLE: $\pm 2^\circ$ 6 OVER 30 MAX ± 0.3
 6 MAX. ± 0.2 30 OVER 120 MAX. ± 0.5

PROJECTION: SERIES No. R3 CUSTOMER COPY



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



REFLOW TEMPERATURE PROFILE
 SENJU METAL INDUSTRY CO., LTD. - M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.6

Rev.6

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : \surd140mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.245N(24.5gf) \times n MAX. / 20TH CYCLES : 0.245N(24.5gf) \times n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.014N(1.4gf) \times n MIN. / 20TH CYCLES : 0.014N(1.4gf) \times n MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : 0.13N(13gf) \times n MIN. / AFTER TEST : 0.10N(10gf) \times n MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2073
TEST REPORT	TR-15025
PACKING STANDARD	PST-15042
INSTRUCTION MANUAL	HIM-14004
APPEARANCE CRITERIA No.	QLS-A***

※ "n" IS THE NUMBER OF PIN

Rev.6

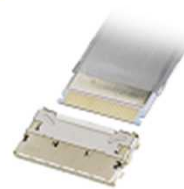
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Power



High-Power



I/O (Input/Output)



Quick charge



Effector



Custom Connectors Available

Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, EVAFLEX, MINIFLEX, ISH, IARPB, IASLP, ESTORQ, ISFIT, i-Fit and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

www.i-pex.com



I-PEX

© I-PEX Inc. 2022
All rights reserved.