

MINIFLEX® 3-BFNH L-HD

0.3 mm 間距、0.9 mm 高度、提升保持力、配備固定腳位設計、水平插拔、後掀式 FPC 連接器

Product Specifications:

Contact Pitch		0.3 mm
Board Pitch		0.6 mm
Contact Mating Length		Contact A: 1.0 mm
		Contact B: 0.45 mm
Mated Size	Height	0.9 +/- 0.1 mm
	Width	2.1 + (0.3 x pin count) mm
	Depth	Open: 2.95 mm
		Close: 3.5 mm
Available Pin Count *		39, 61

*若有規格外 Pin 數需求,請與當地負責業務窗口聯繫。

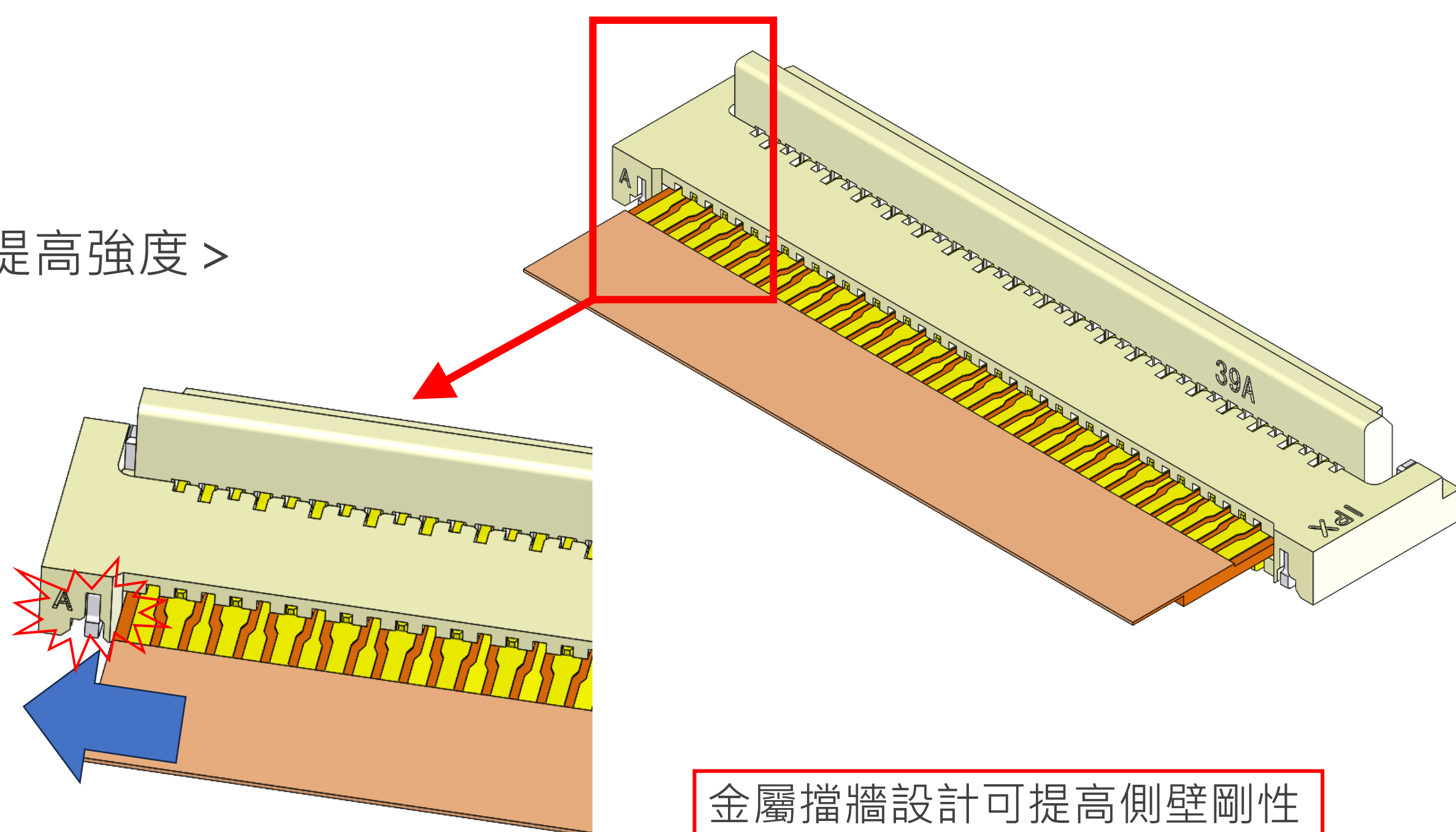
Applicable FPC/FFC:

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



兩側金屬擋牆加強側牆的強度

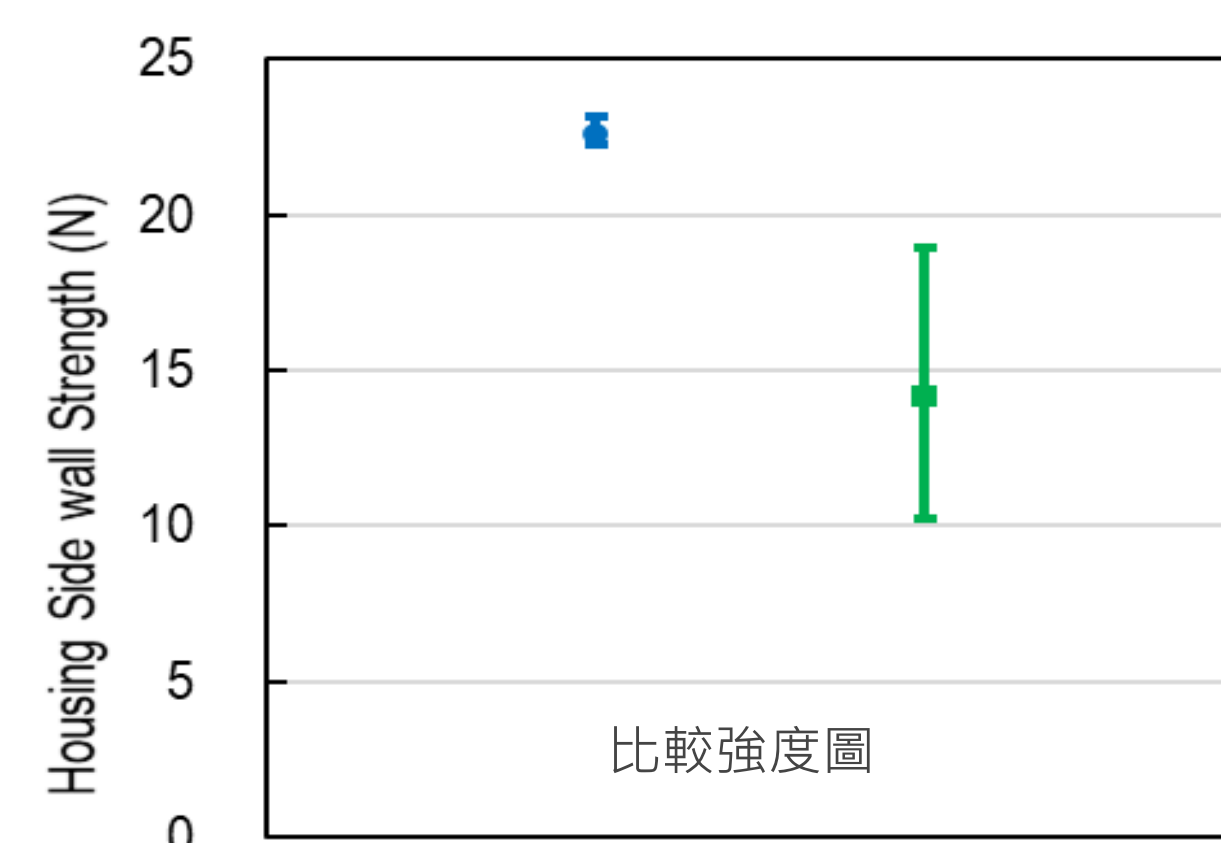
< 提高強度 >



金屬擋牆設計可提高側壁剛性

側牆強度比較表

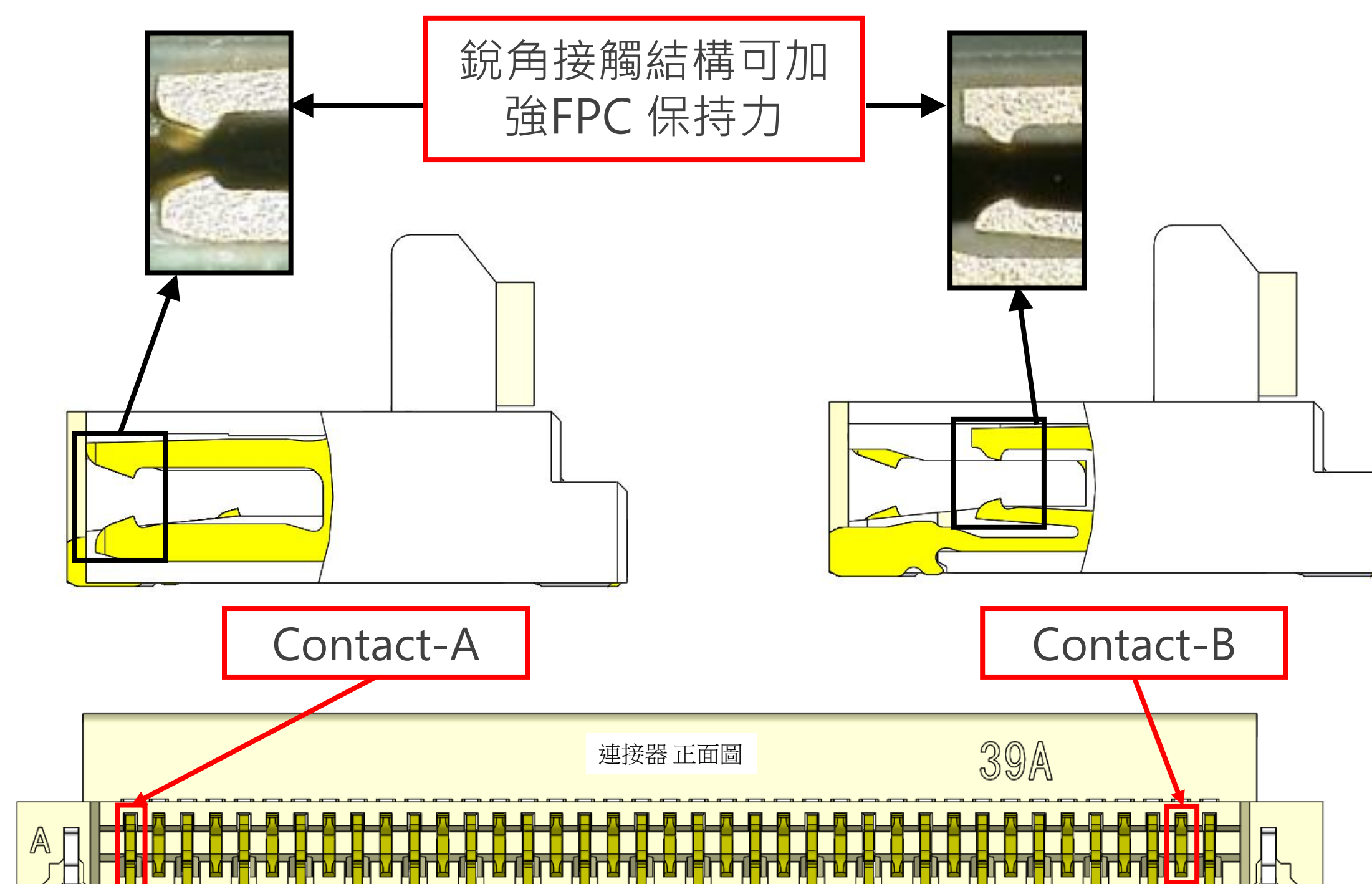
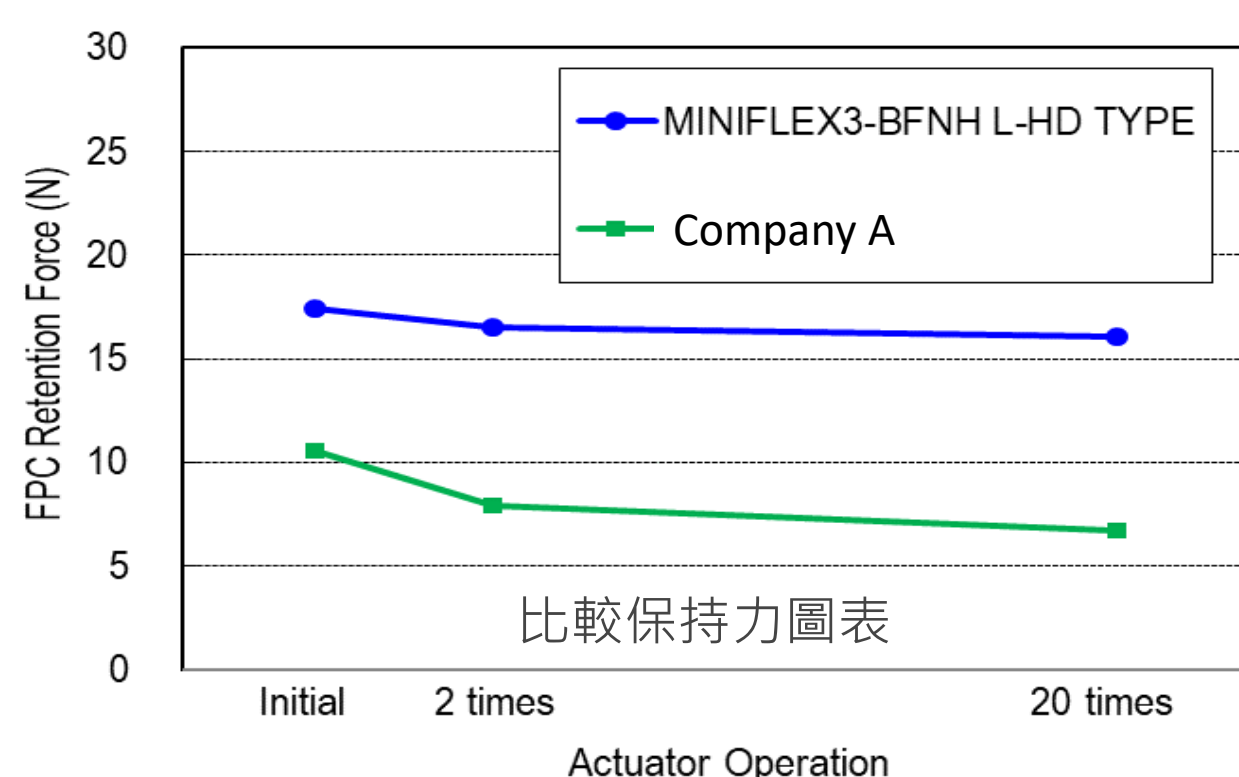
FPC thickness t=0.20	MINIFLEX 3-BFNH L-HD TYPE (39 pin)	Company A (Front Flip 39 pin)
AVE.	22.620 N	14.162 N
MAX.	23.15 N	18.94 N
MIN.	22.25 N	10.22 N



端子接觸前緣的銳角設計可提供更強的 FPC 保持力

FPC 保持力比較測試

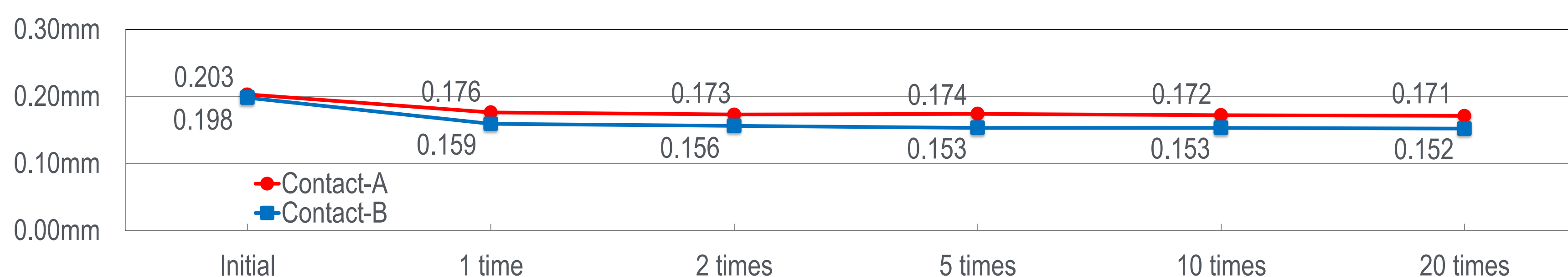
FPC thickness t=0.190	Initial	Actuator operation	
		After 2 times	After 20 times
MINIFLEX 3-BFNH L-HD TYPE (39 pin)	17.432 N	16.538 N	16.052 N
Company A (Front Flip 39 pin)	10.590 N	7.900 N	6.747 N



在沒有插入FPC的情況下關閉鋼琴蓋，連接器仍可使用

在沒有插入 FPC 的情況下閉合鋼琴蓋，連接器仍可使用

■ FPC未插入情況下閉合鋼琴蓋，其前後的接點間距比較如圖(圖表為 MINIFLEX® 3-BFNH L-HD 39 pins)



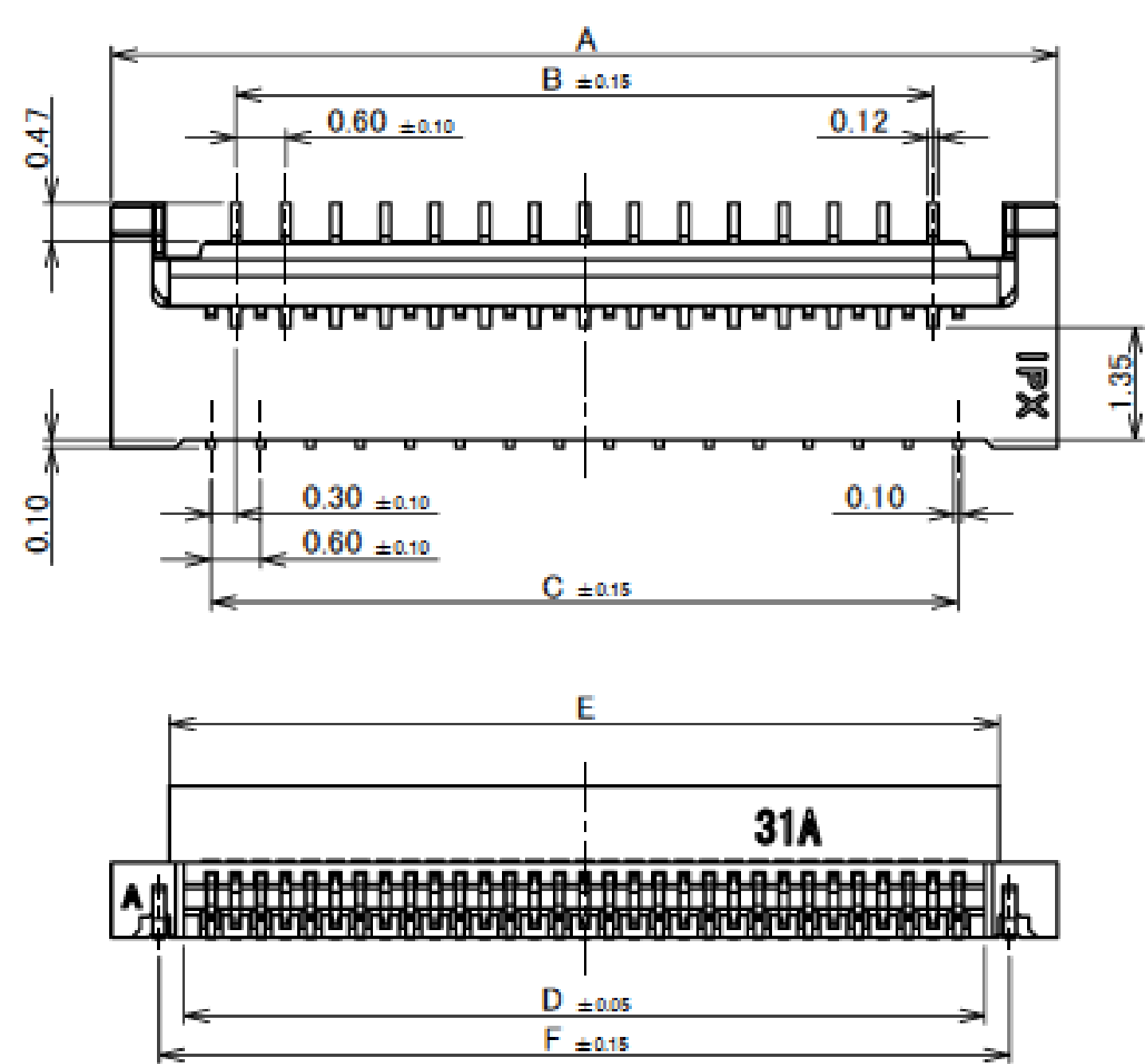
■ FPC插入力上升

■ FPC保持力無太大變化

Component Parts Details

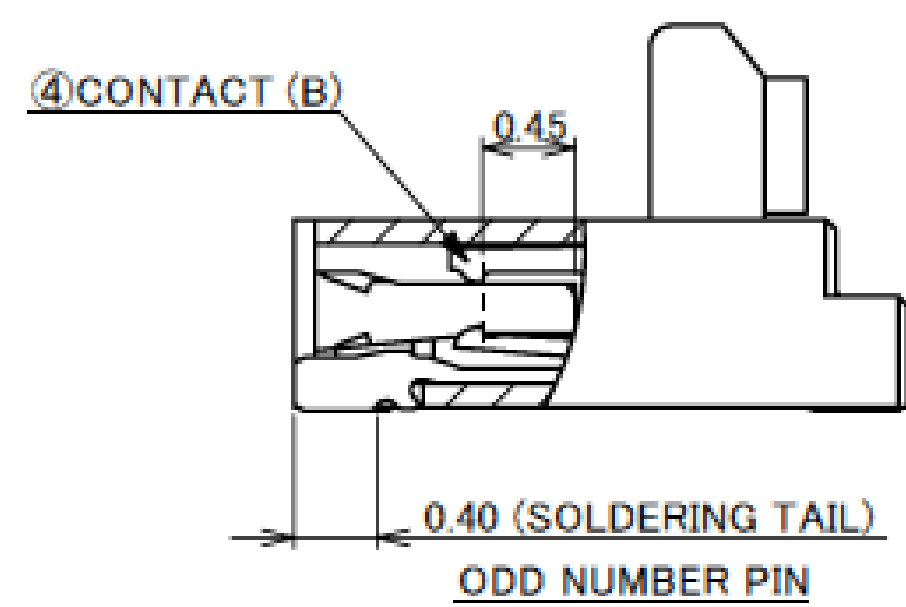
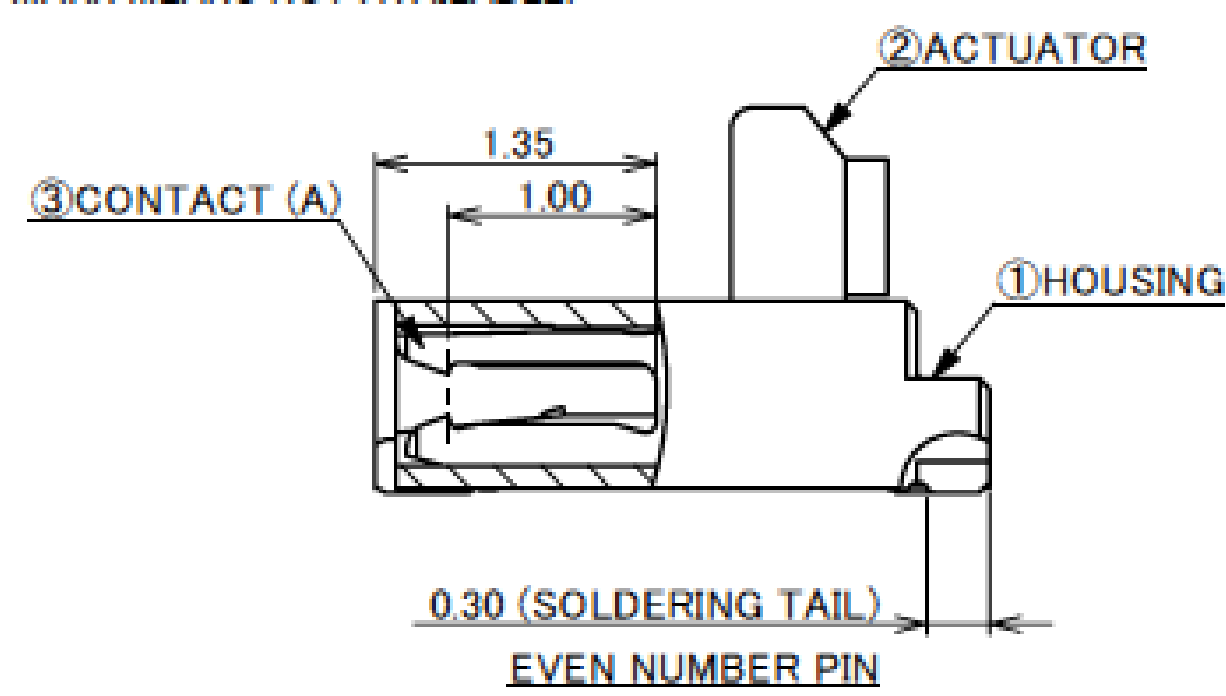
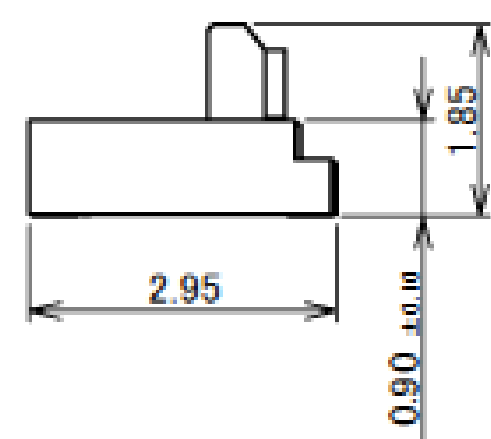
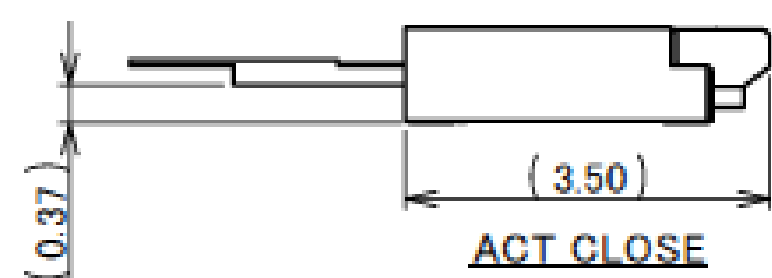
Connector Assembly

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

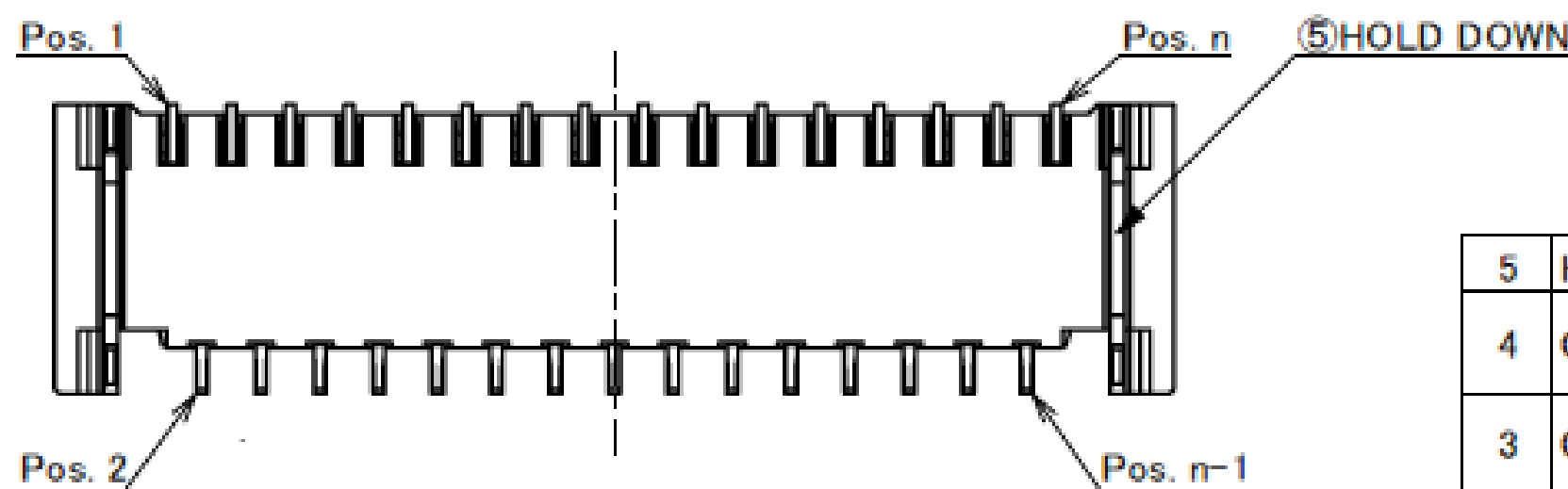


PART No.	Pos.	A	B	C	D	E	F
◆20660-031E-01	31P	11.40	8.40	9.00	9.65	10.00	10.25
20660-039E-01	39P	13.80	10.80	11.40	12.05	12.40	12.65
20660-061E-01	61P	20.40	17.40	18.00	18.65	19.00	19.25
◆20660-071E-01	71P	23.40	20.40	21.00	21.65	22.00	22.25

◆MARK MEANS NOT AVAILABLE.



NOTE
1. CONTACT POINT: TOP AND BOTTOM CONTACT

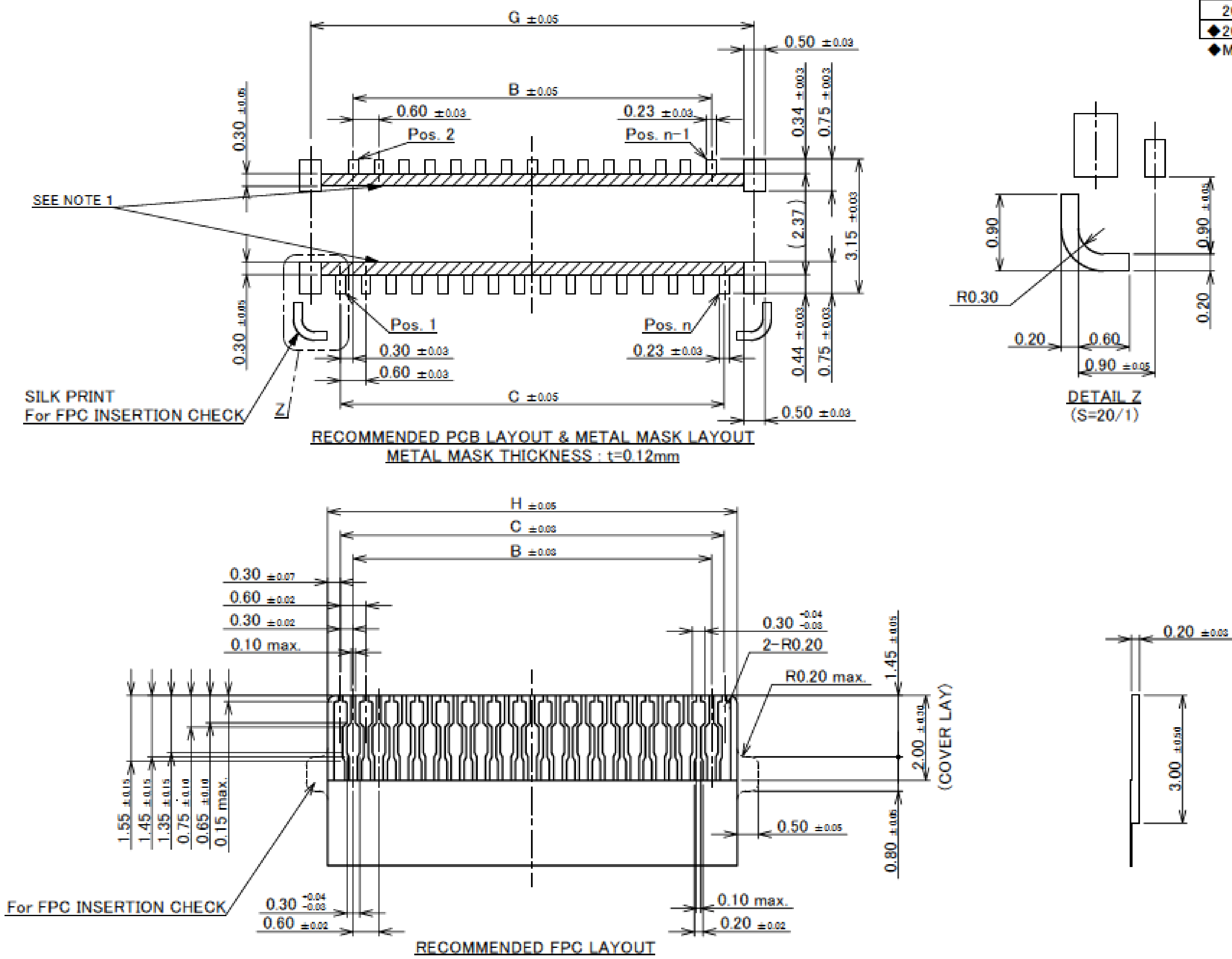


NO.	DISCRIPTION	MATERIAL	REMARKS
5	HOLD DOWN	BRASS	
4	CONTACT(B)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.0 μ m MIN.
3	CONTACT(A)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN.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

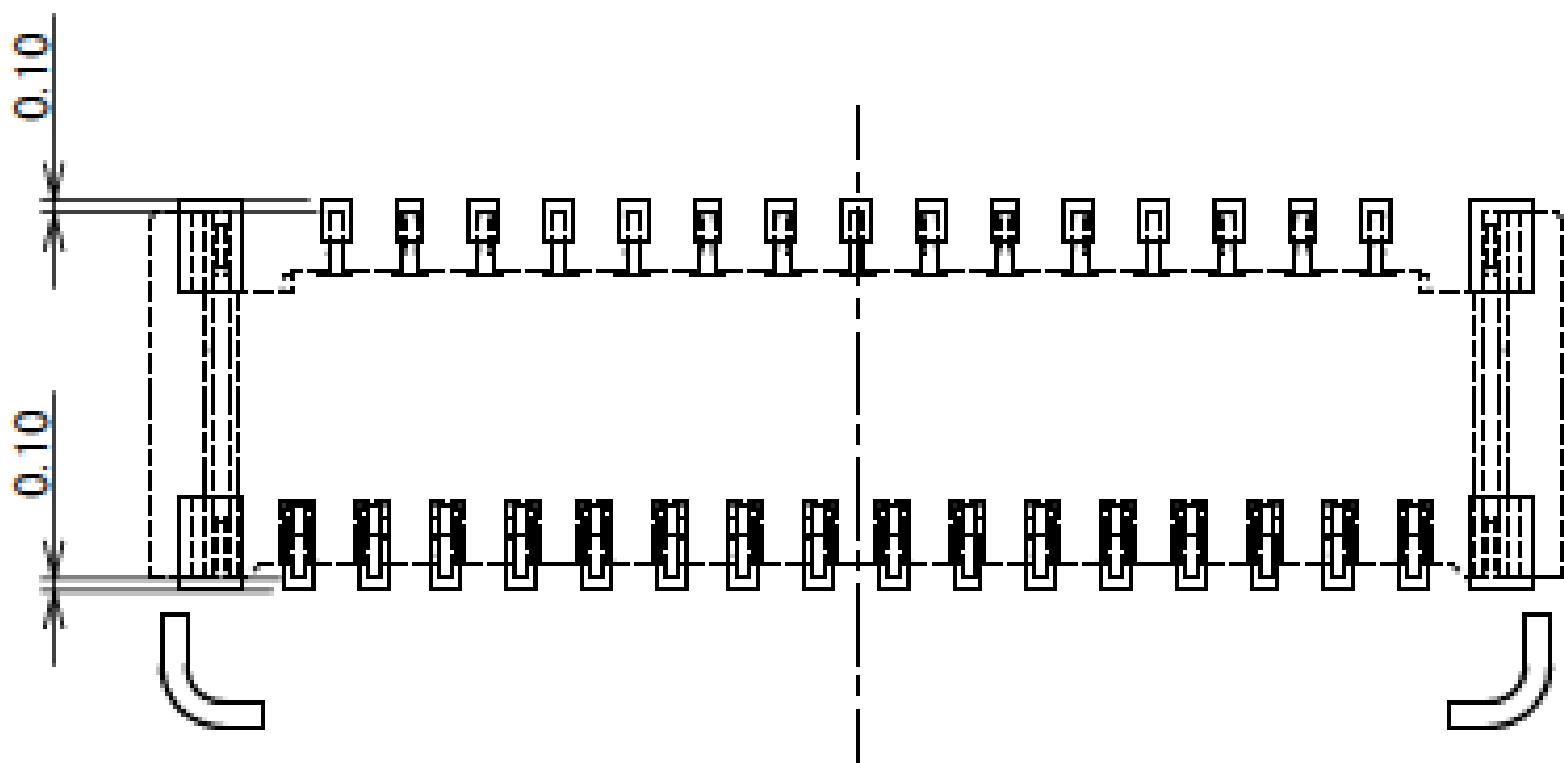
Connector Assembly

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
20660-061E-01	61P	17.40	18.00	19.40	18.60
◆20660-071E-01	71P	20.40	21.00	22.40	21.60

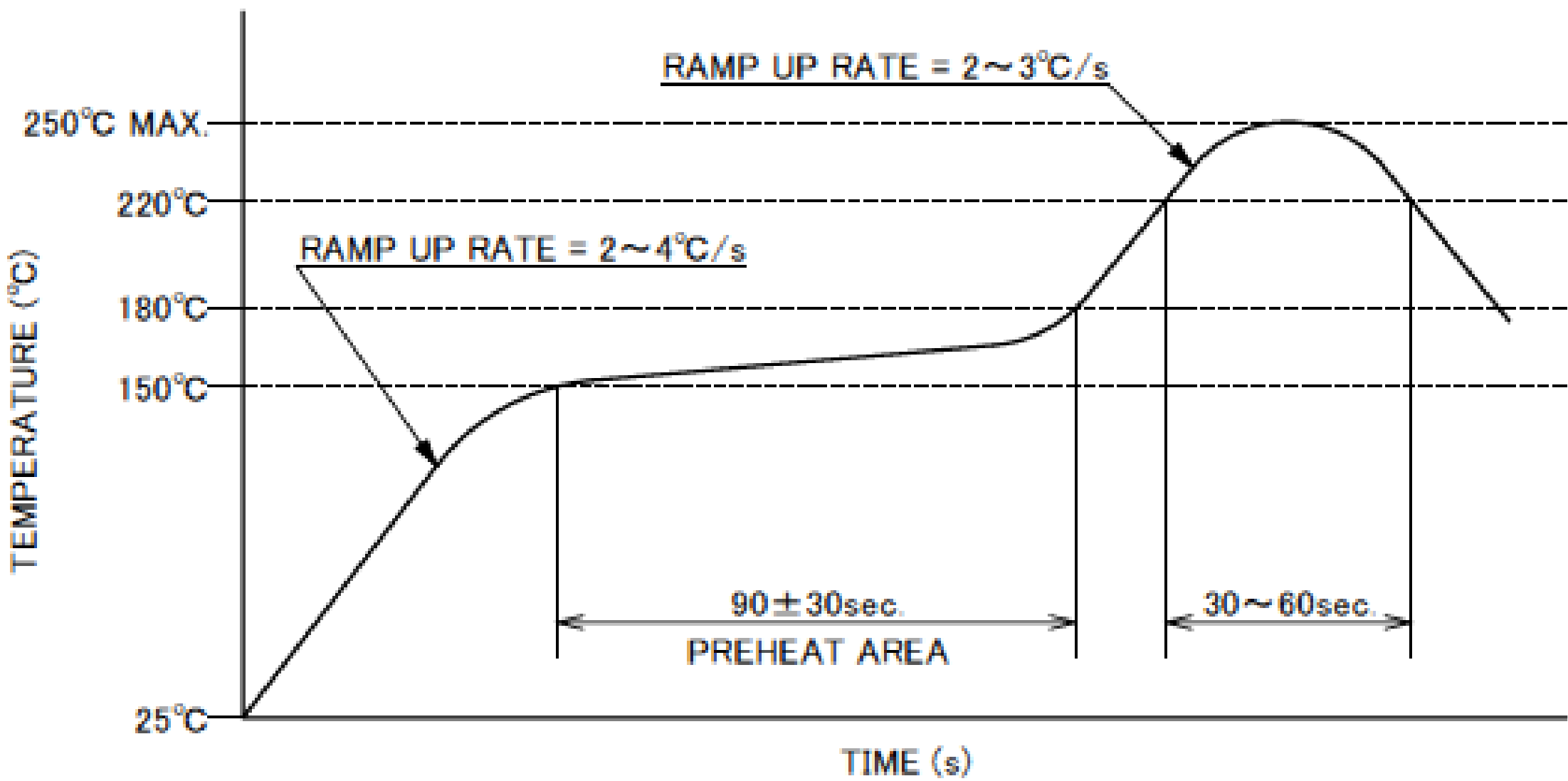
◆MARK MEANS NOT AVAILABLE.



Rev.11



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.11

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangleleft$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.245N(24.5gf) × n MAX. / 20TH CYCLES : 0.245N(24.5gf) × n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.014N(1.4gf) × n MIN. / 20TH CYCLES : 0.014N(1.4gf) × n MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : 0.13N(13gf) × n MIN. / AFTER TEST : 0.10N(10gf) × 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



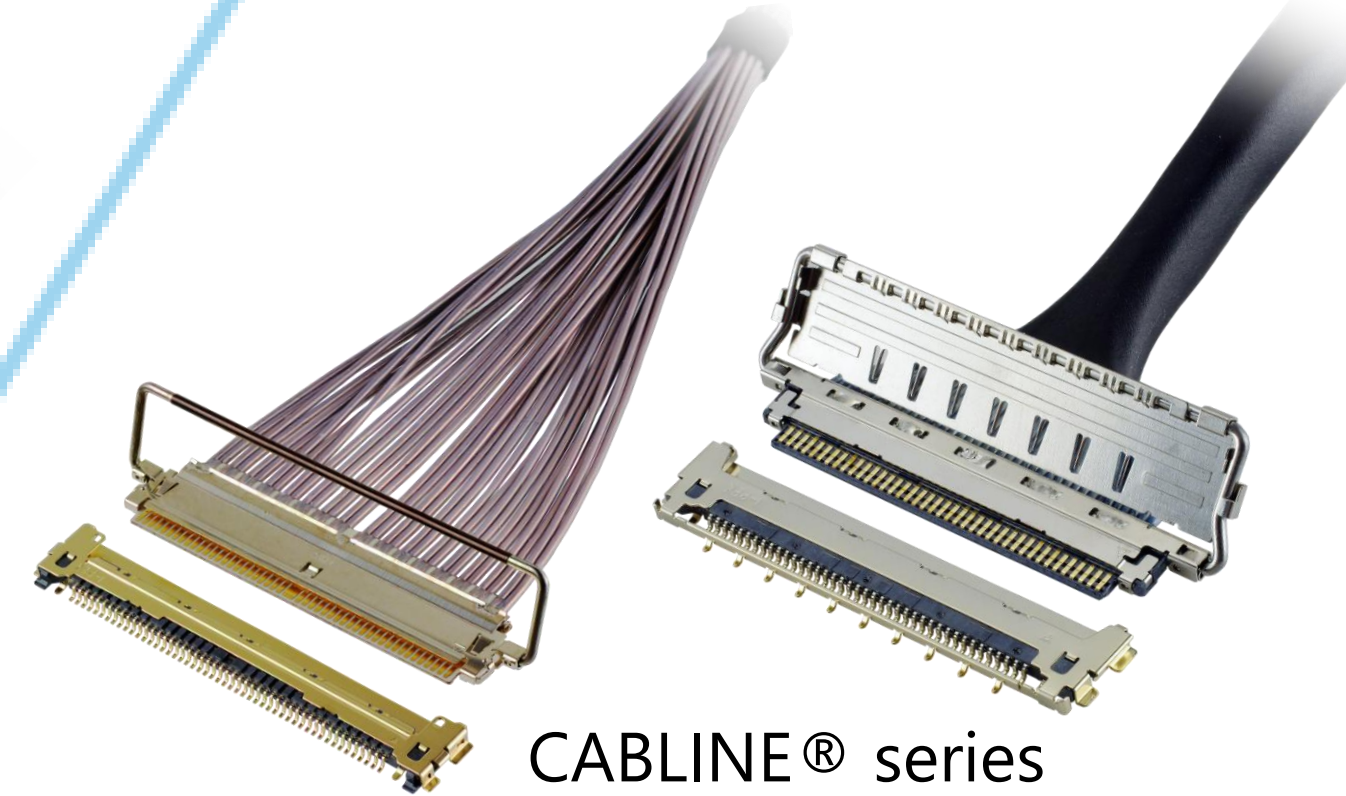
CAUTION

PLEASE BE SURE TO READ AND UNDERSTAND “INSTRUCTION MANUAL” BEFORE YOU USE OUR PRODUCTS.

Custom Connectors Available

RF Connectors

MHF® series



CABLIN® series

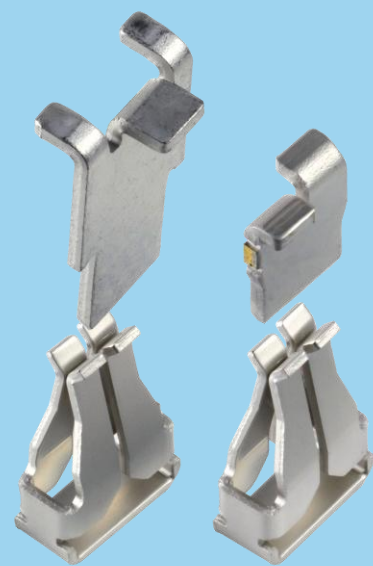


Micro-Coaxial/Twinaxial Connectors

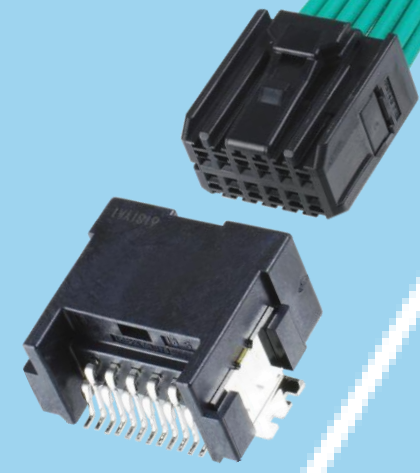


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



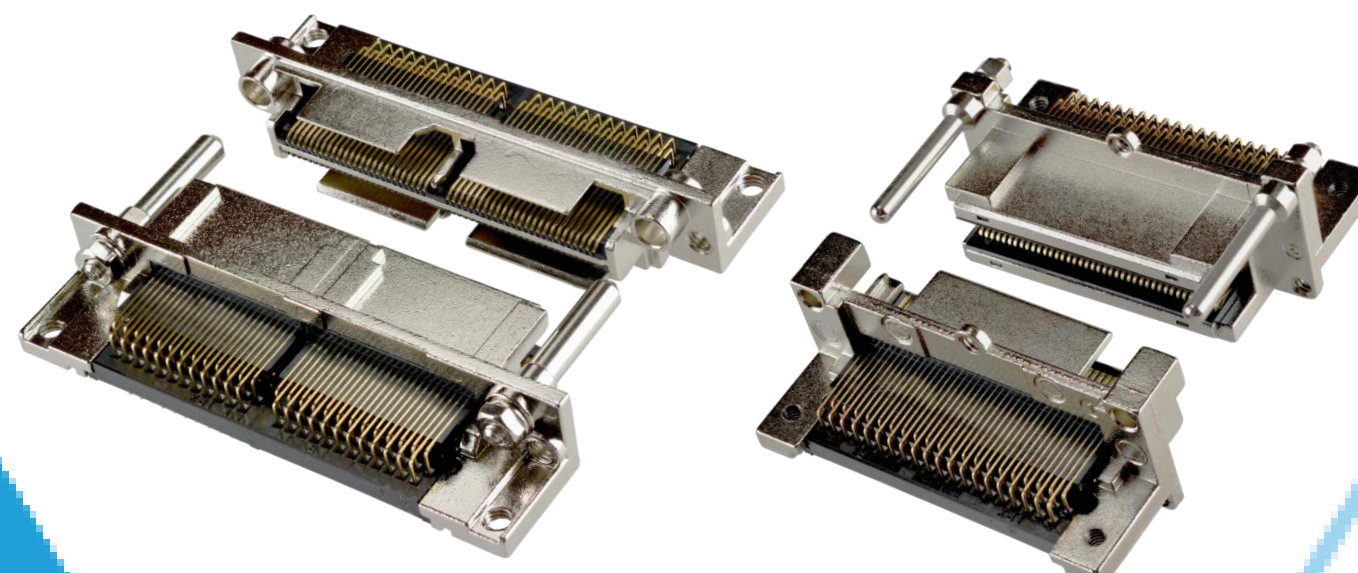
NOVASTACK® series



Board-to-Board Connectors



I/O Connectors



MINIDOCK™ series

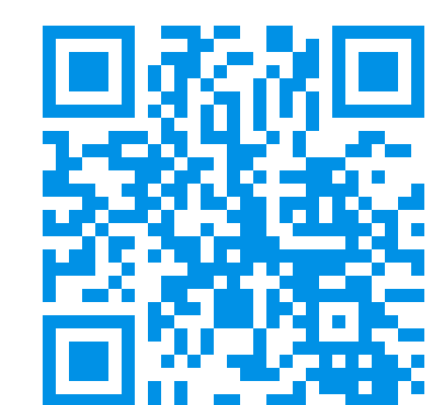
MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK, 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. 2026
All rights reserved