

DW-5

ディスクリートワイヤとFPC用のハイブリッドコネクタ、高さ = 1.0 mm、0.5 mmピッチ、水平嵌合、バックフリップ

		Plug	Receptacle
Board Pitch (mm)		0.5	
Wiping Length (mm)		1	
Size (mm)	Height	1.0 +/- 0.1	
	Width	Formula: $3.8+(0.5*\text{?p})$	Formula: $3.7+(0.5*\text{?p})$
	Depth	Open: Mating FPC : 3.0 Mating PLUG CABLE : 4.9 Close: Mating FPC : 3.5 Mating PLUG CABLE : 5.39	
Pin counts	Range	6-20 (even)	
	Available	6, 8, 10	

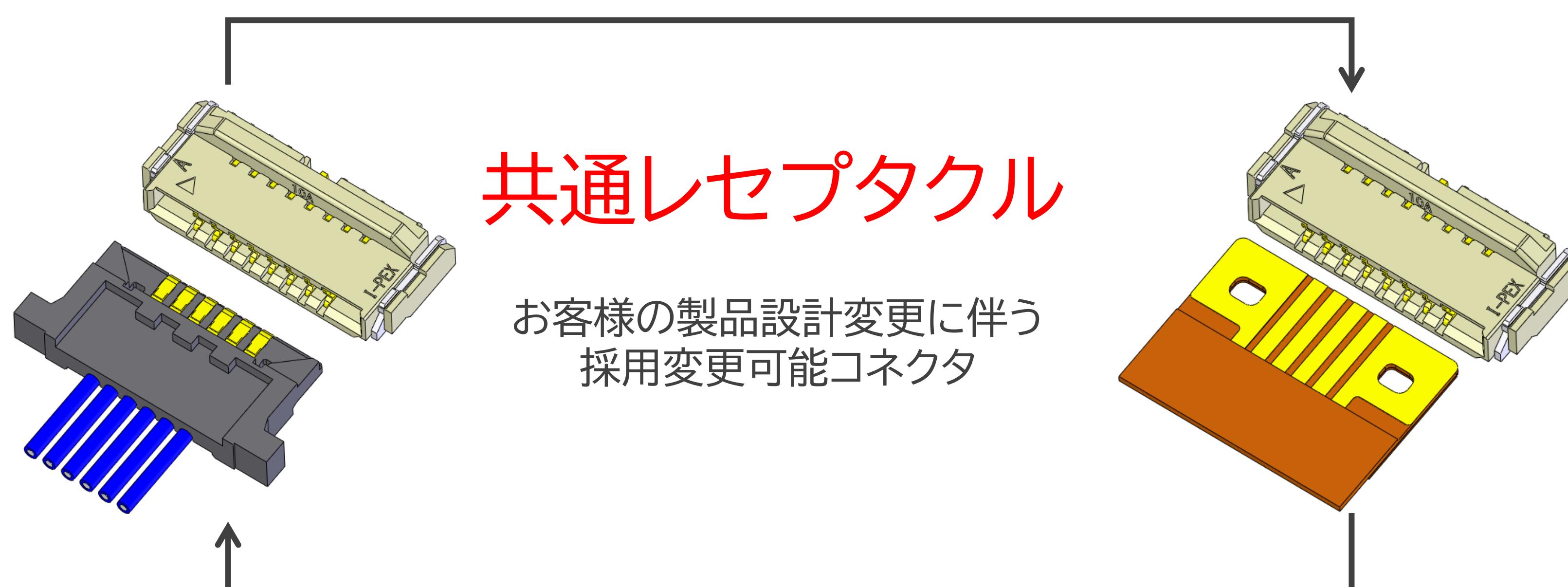
Applicable FPC/FFC:

FPC/FFC Contact Pitch	0.5
FPC/FFC Contact Point	Top and Bottom
FPC/FFC Thickness (mm)	0.2 +/- 0.03

*記載のない極数の対応状況についてはお問い合わせください。

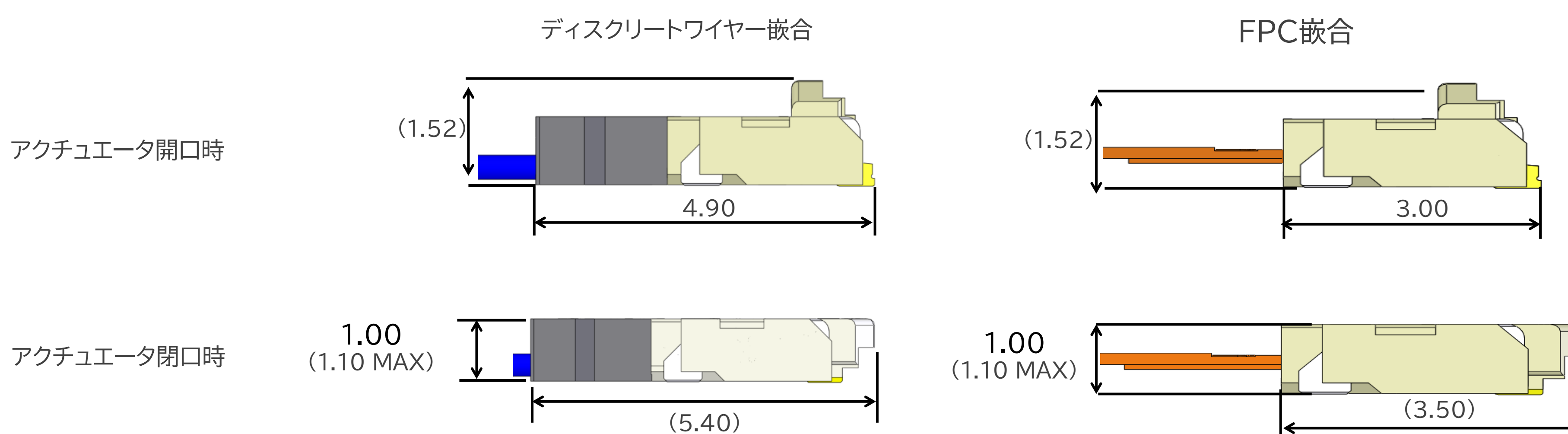


▶ FPCとディスクリートワイヤーハイブリットコネクタ

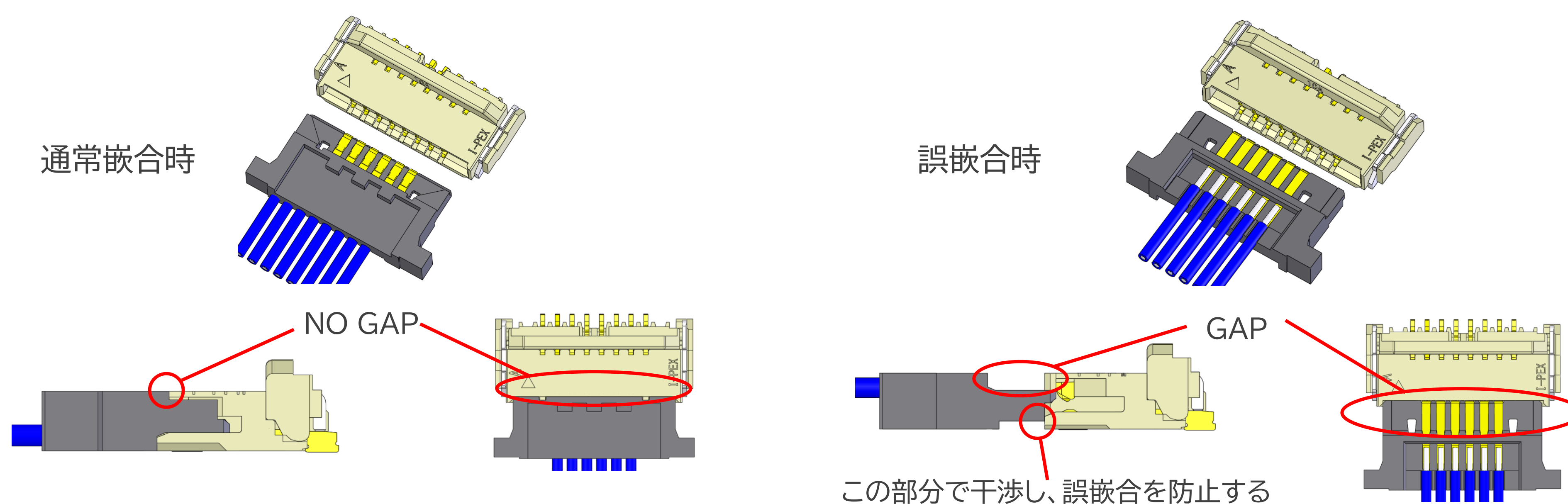


▶ 高さ1.0 mm最小クラス

高さ1.00mmの業界最小クラス 6p 寸法



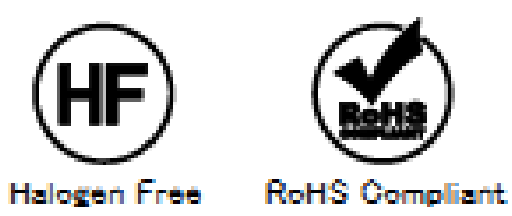
▶ 誤嵌合防止形状による誤操作の減少



Component Parts Details

Plug for Cable Assembly

Recommended P/N	20598-0**T-02
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CAUTION VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-14010 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

PART No.	POS.	A	B	C	D	E
20598-006T-02	6	6.80	5.50	3.50	2.50	4.50
20598-008T-02	8	7.80	6.50	4.50	3.50	5.50
20598-010T-02	10	8.80	7.50	5.50	4.50	6.50
◆20598-020T-02	20	13.80	12.50	10.50	9.50	11.50

◆MARK MEANS NOT AVAILABLE

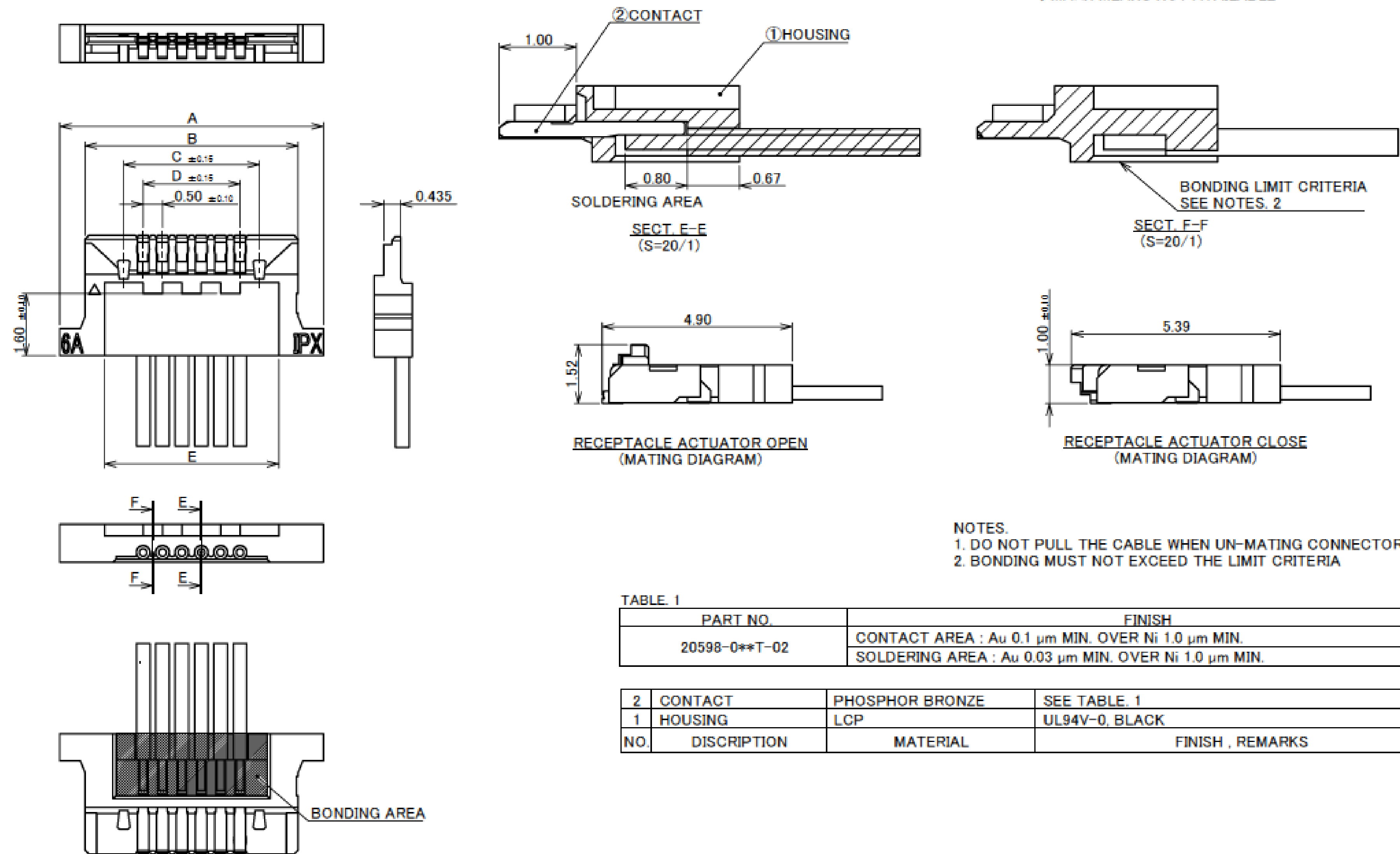
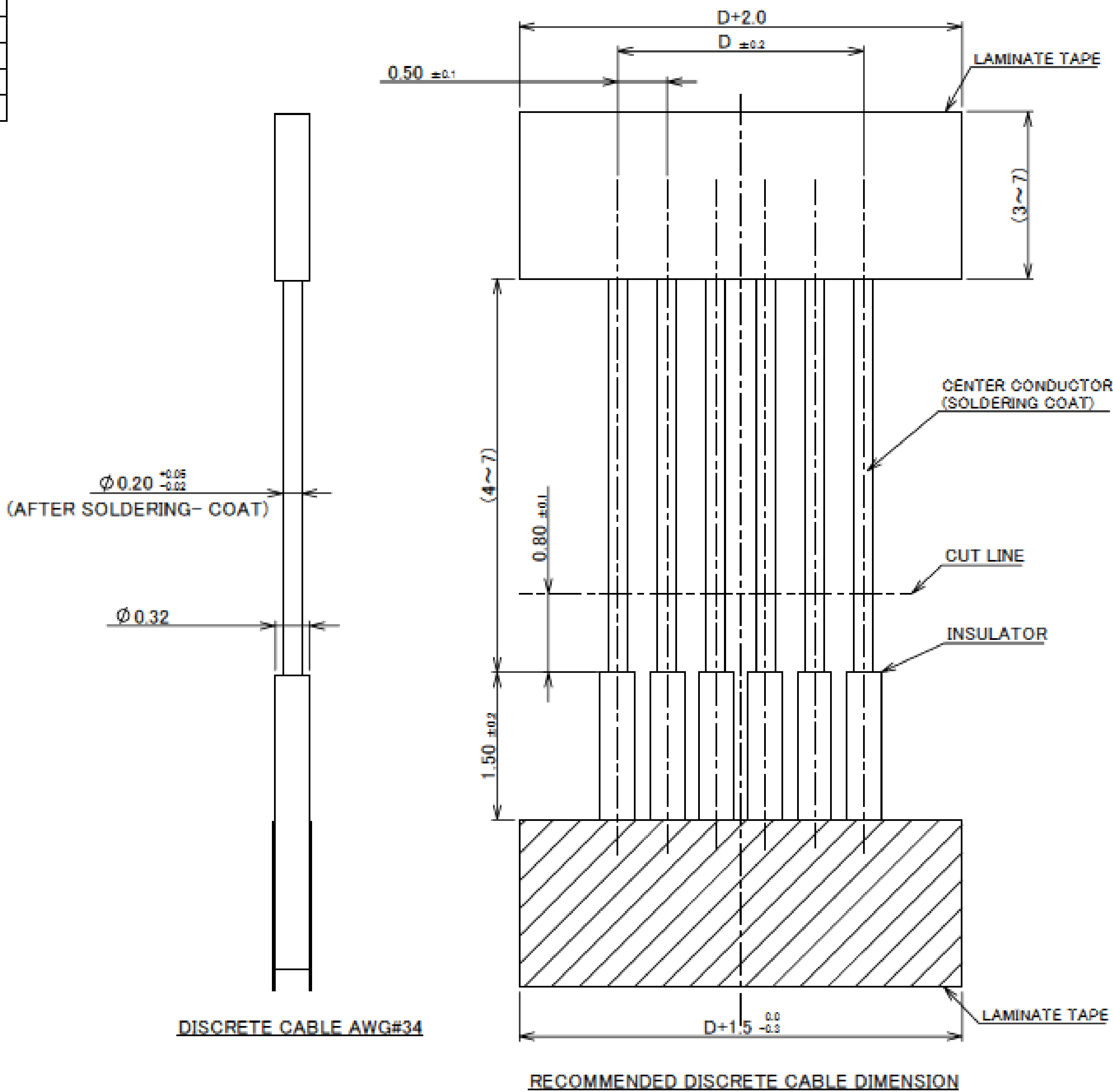


TABLE. 1		FINISH	
PART NO.		CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.0 μm MIN.	
20598-0**T-02		SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.	
2	CONTACT	PHOSPHOR BRONZE	SEE TABLE. 1
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Plug for Cable Assembly

PART No.	POS.	D
20598-006T-02	6	2.50
20598-008T-02	8	3.50
20598-010T-02	10	4.50
◆20598-020T-02	20	9.50

◆MARK MEANS NOT AVAILABLE



Rev.4

ITEMS	SPECIFICATION
APPLICABLE CABLE	DISCRETE : AWG#34
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.7A DC [AWG#34] (PER CONTACT)
OPERATING TEMPERATURE	233~358K(-40℃~85℃)
OPERATING HUMIDITY	80% MAX.
CONTACT RESISTANCE	INITIAL : 40mohm MAX. / AFTER TEST : $\triangle$ 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL/ 20TH CYCLES : $0.6N(61gf) \times (n + 2)$ MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL/ 20TH CYCLES : $0.05N(5gf) \times (n + 2)$ MIN.
PLUG RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : $0.15N(15gf) \times n + 2.0N$ MIN. / AFTER TEST : $0.15N(15gf) \times n + 1.0N$ MIN.
PRODUCT SPECIFICATION	PRS-1880
TEST REPORT	TR-13103
PACKING STANDARD	PST-14006
INSTRUCTION MANUAL	HIM-14010
ASSEMBLY MANUAL	ASM-12002
APPEARANCE CRITERIA No.	QLS-A***

※ “n” IS THE NUMBER OF PIN

Rev.4

Receptacle for Cable Assembly

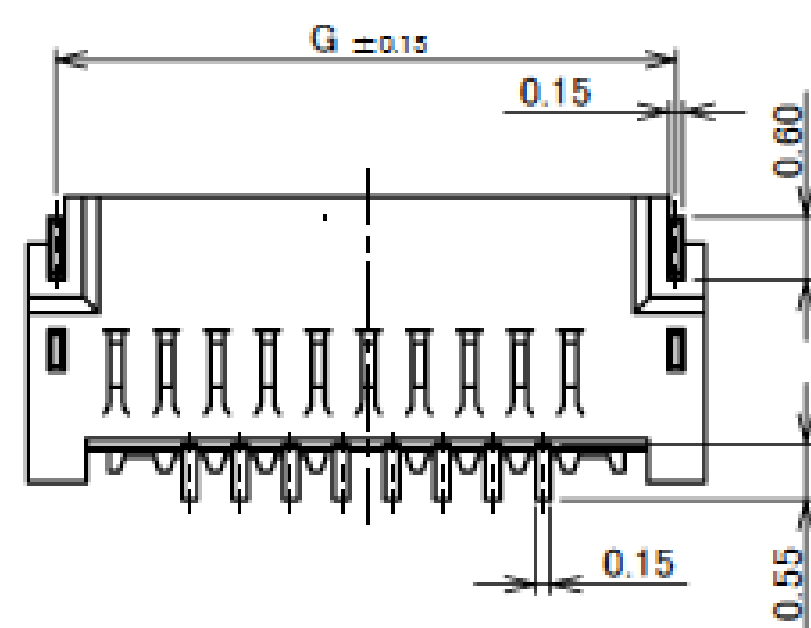
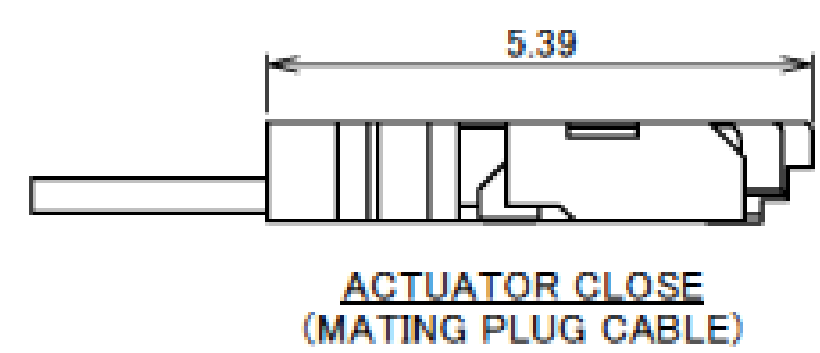
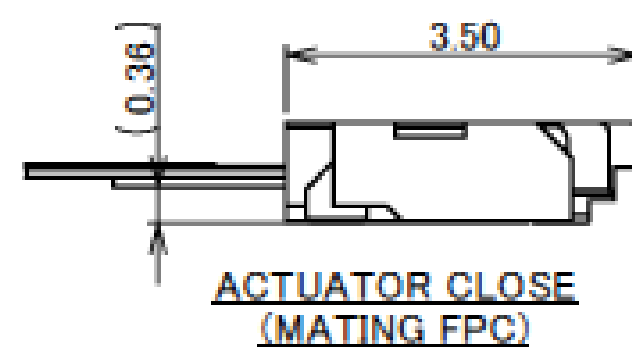
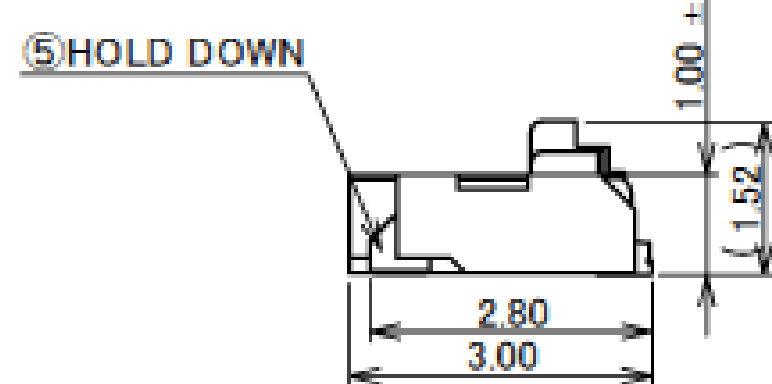
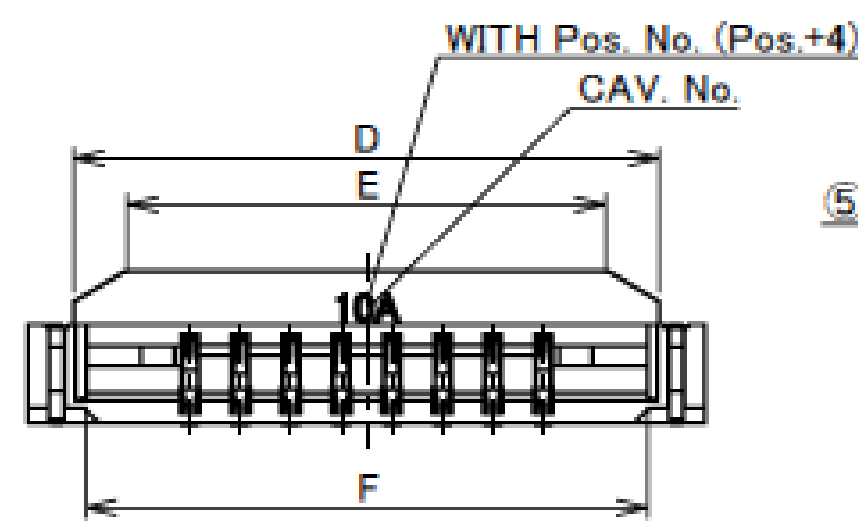
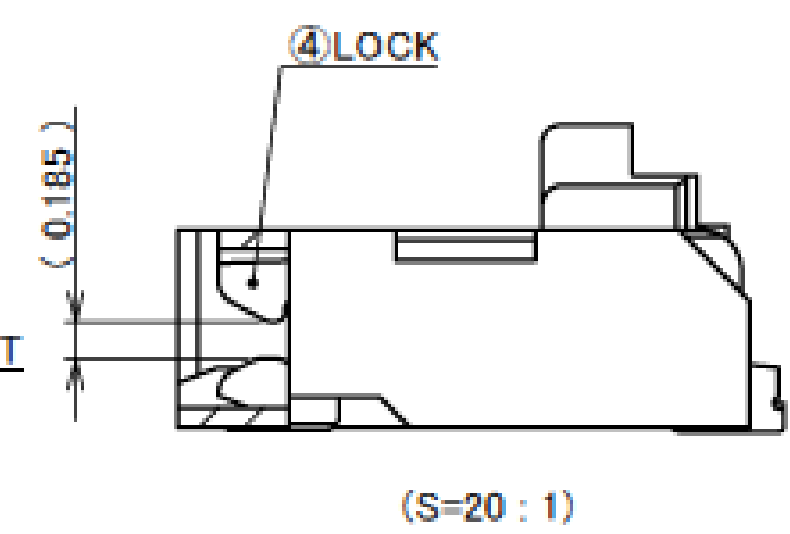
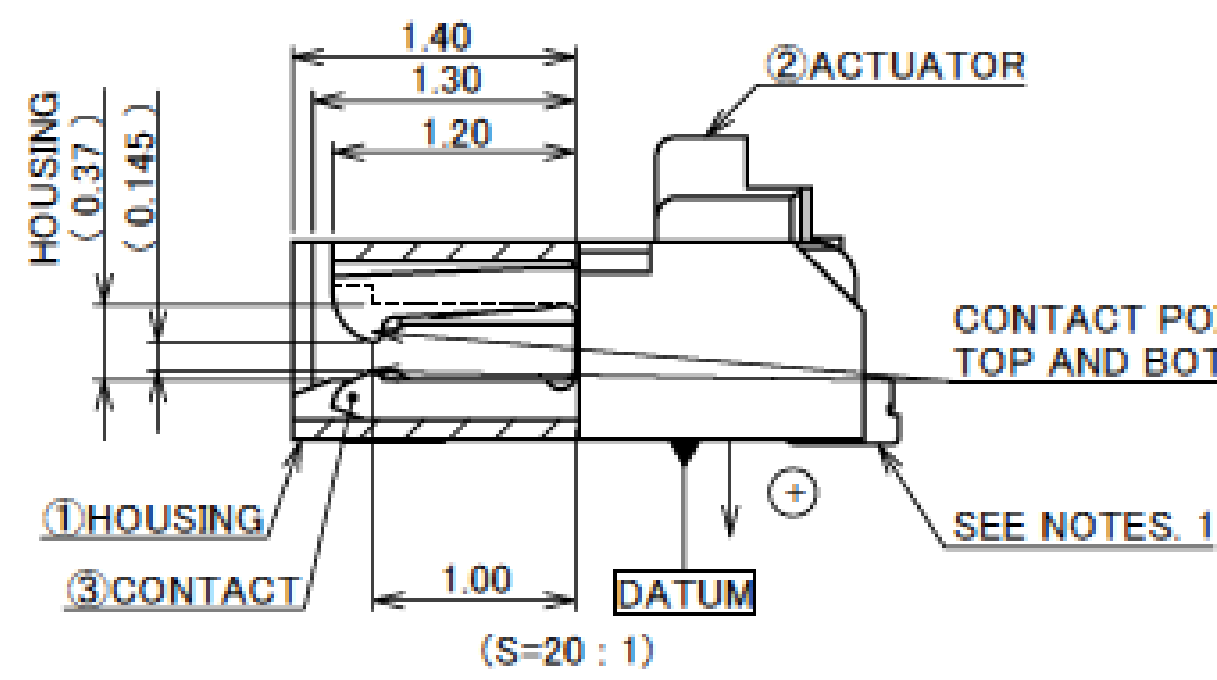
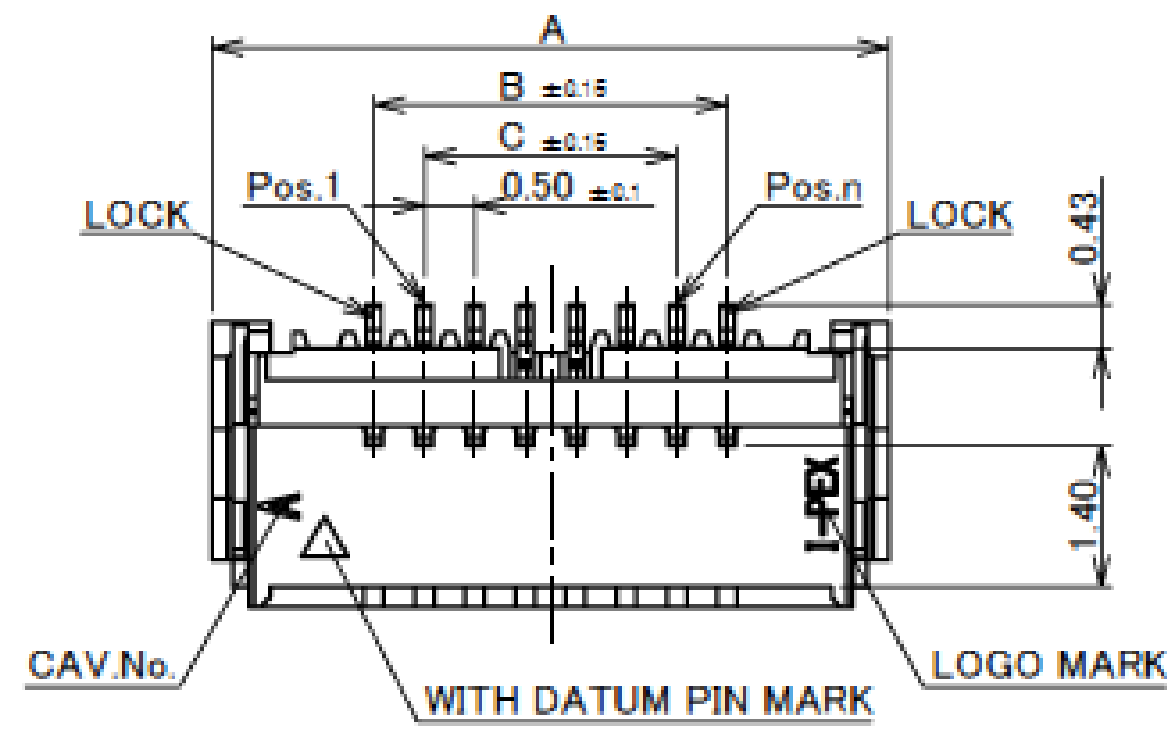
Recommended P/N 20597-0**E-02



CAUTION VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-14010 AND HIM-12019 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

PART No.	POS.	A	B	C	D	E	F	G
20597-006E-02	6	6.70	3.50	2.50	5.80	4.80	5.56	6.15
20597-008E-02	8	7.70	4.50	3.50	6.80	5.80	6.56	7.15
20597-010E-02	10	8.70	5.50	4.50	7.80	6.80	7.56	8.15
◆20597-020E-02	20	13.70	10.50	9.50	12.80	6.80	12.56	13.15

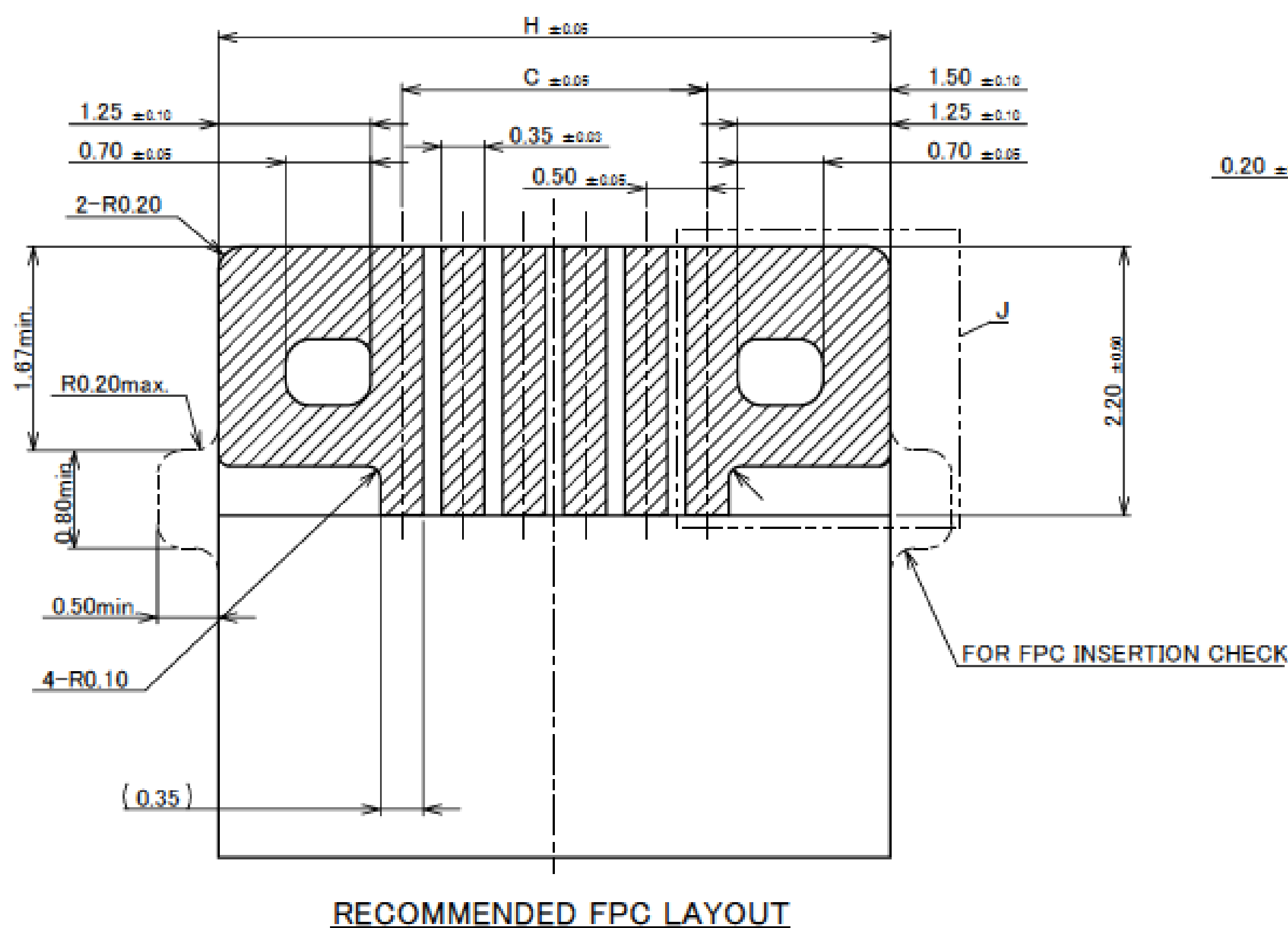
◆MARK MEANS NOT AVAILABLE



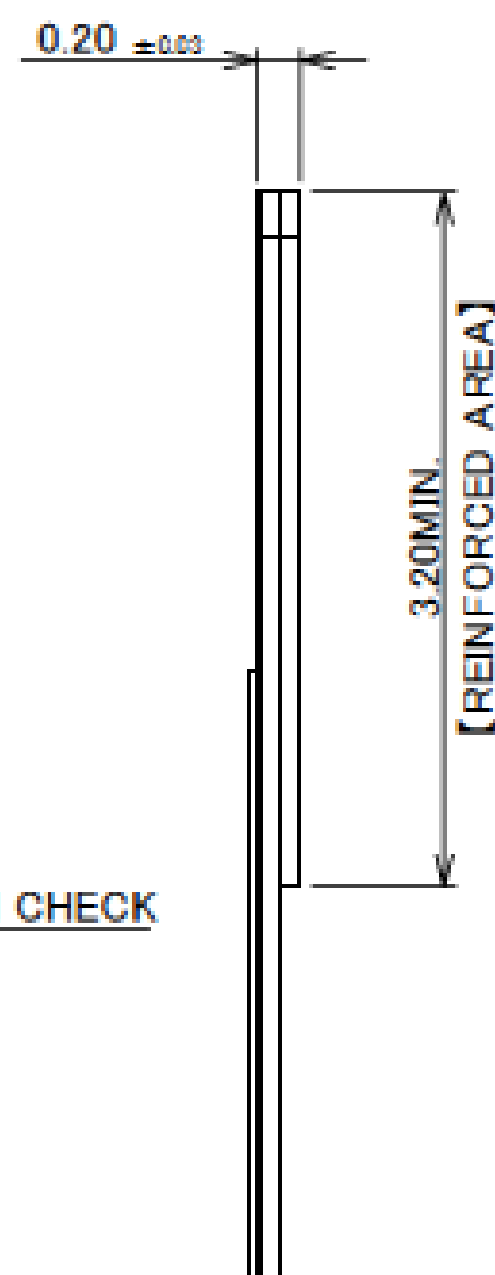
5	HOLD DOWN	PHOSPHOR BRONZE	Sn 2~6 μm MIN.OVER Ni 1.0 μm MIN.
4	LOCK	PHOSPHOR BRONZE	Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.
3	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.0 μm MIN.
2	ACTUATOR	LCP	SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.
1	HOUSING	LCP	UL94V-0, BEIGE

NOTES
1. CONTACT TAIL IS PROJECTION FROM HOUSING IN THE + DIRECTION. (0~0.06)

Rev.8

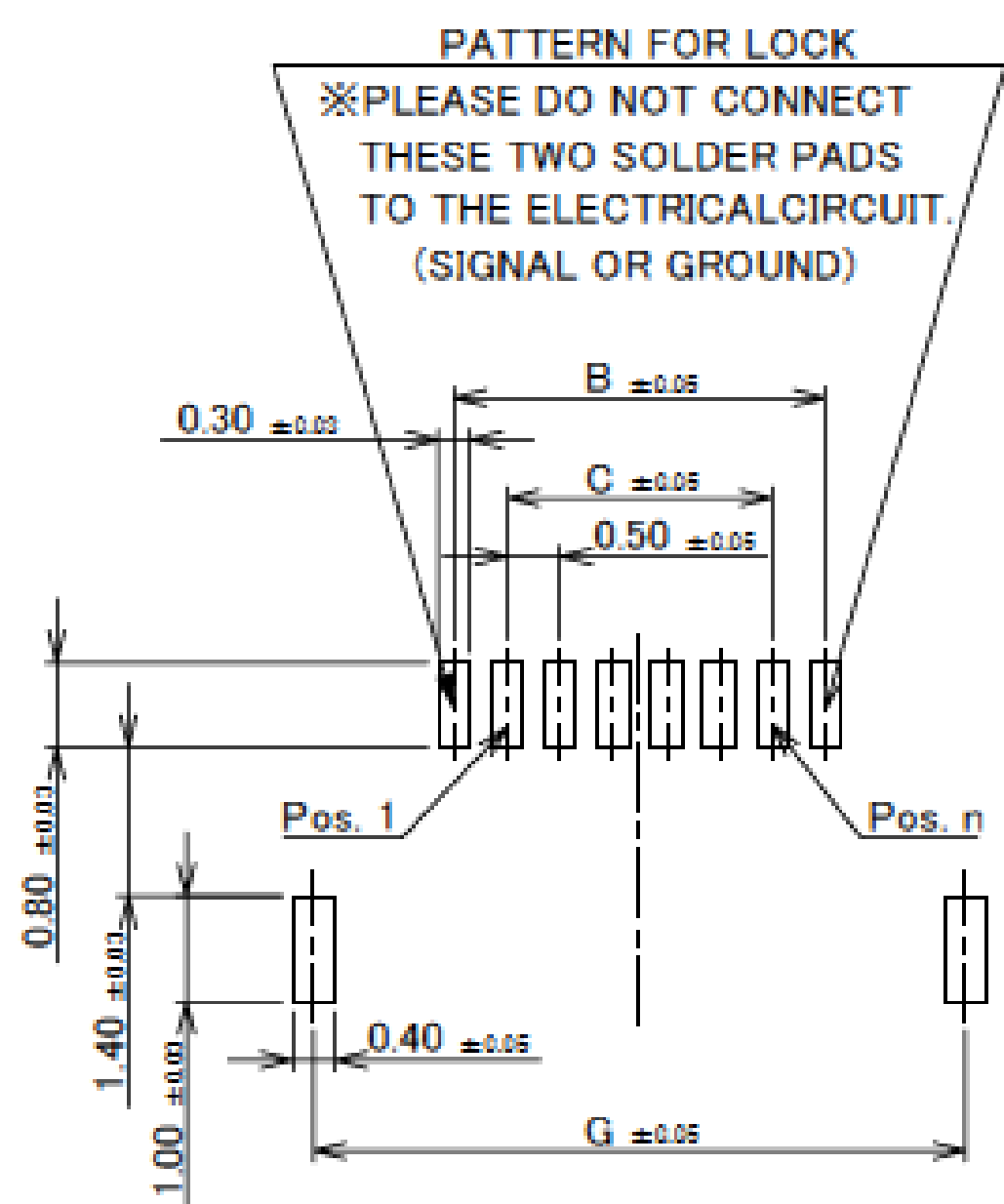


RECOMMENDED FPC LAYOUT

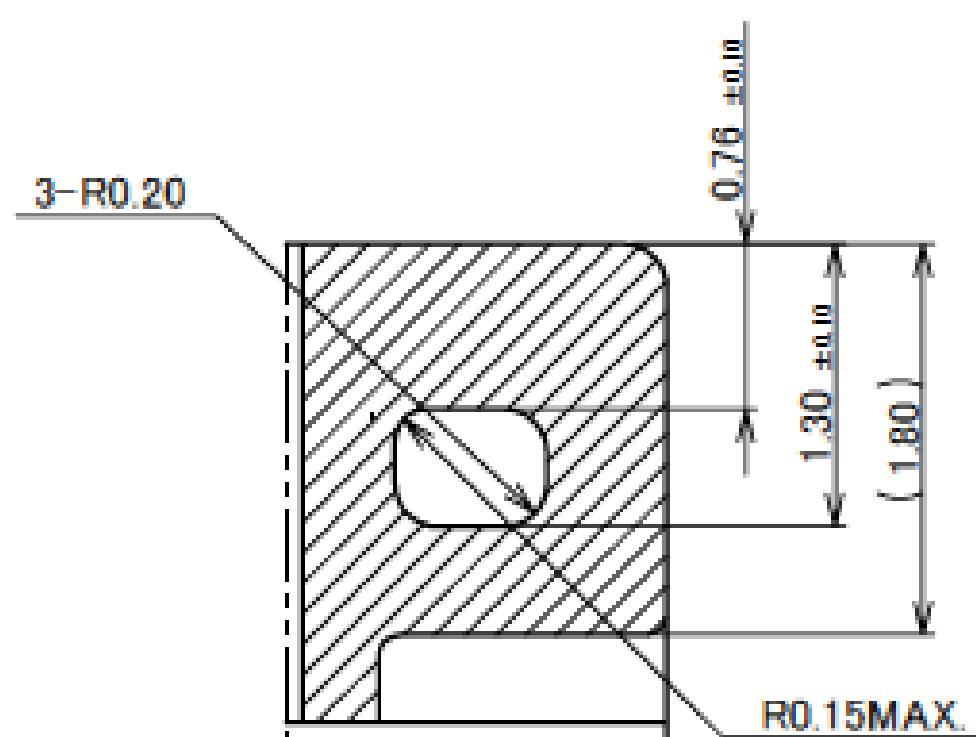


PART No.	POS.	B	C	G	H
20597-006E-02	6	3.50	2.50	6.15	5.50
20597-008E-02	8	4.50	3.50	7.15	6.50
20597-010E-02	10	5.50	4.50	8.15	7.50
◆20597-020E-02	20	10.50	9.50	13.15	12.50

◆MARK MEANS NOT AVAILABLE



RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm

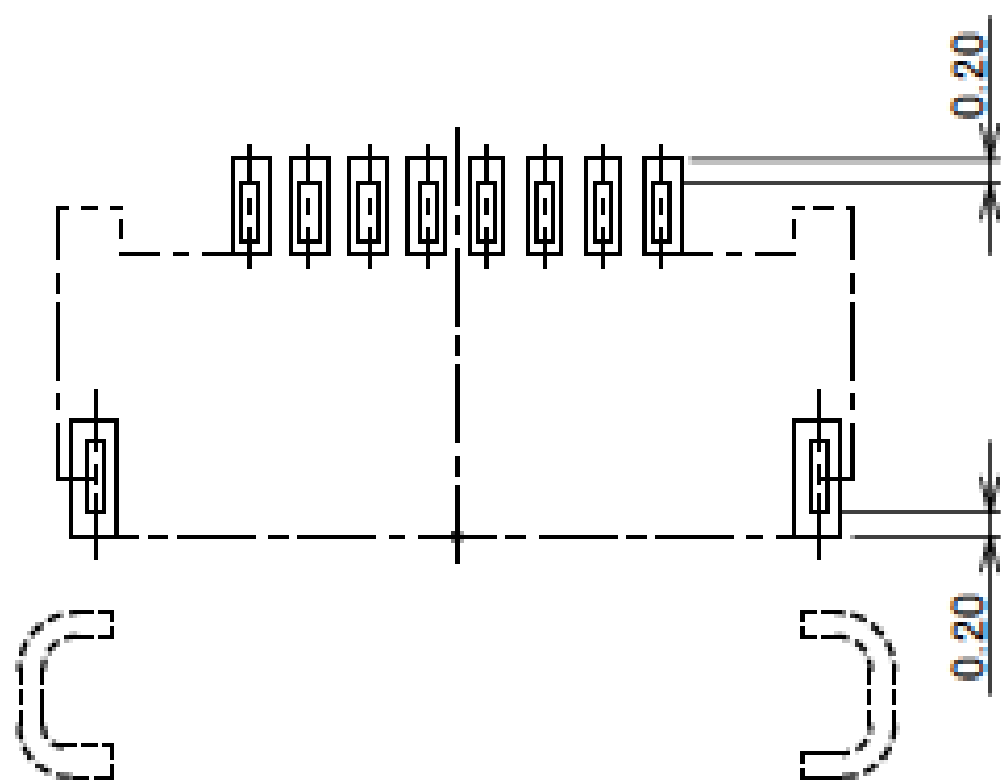


DETAIL J
(S=20/1)

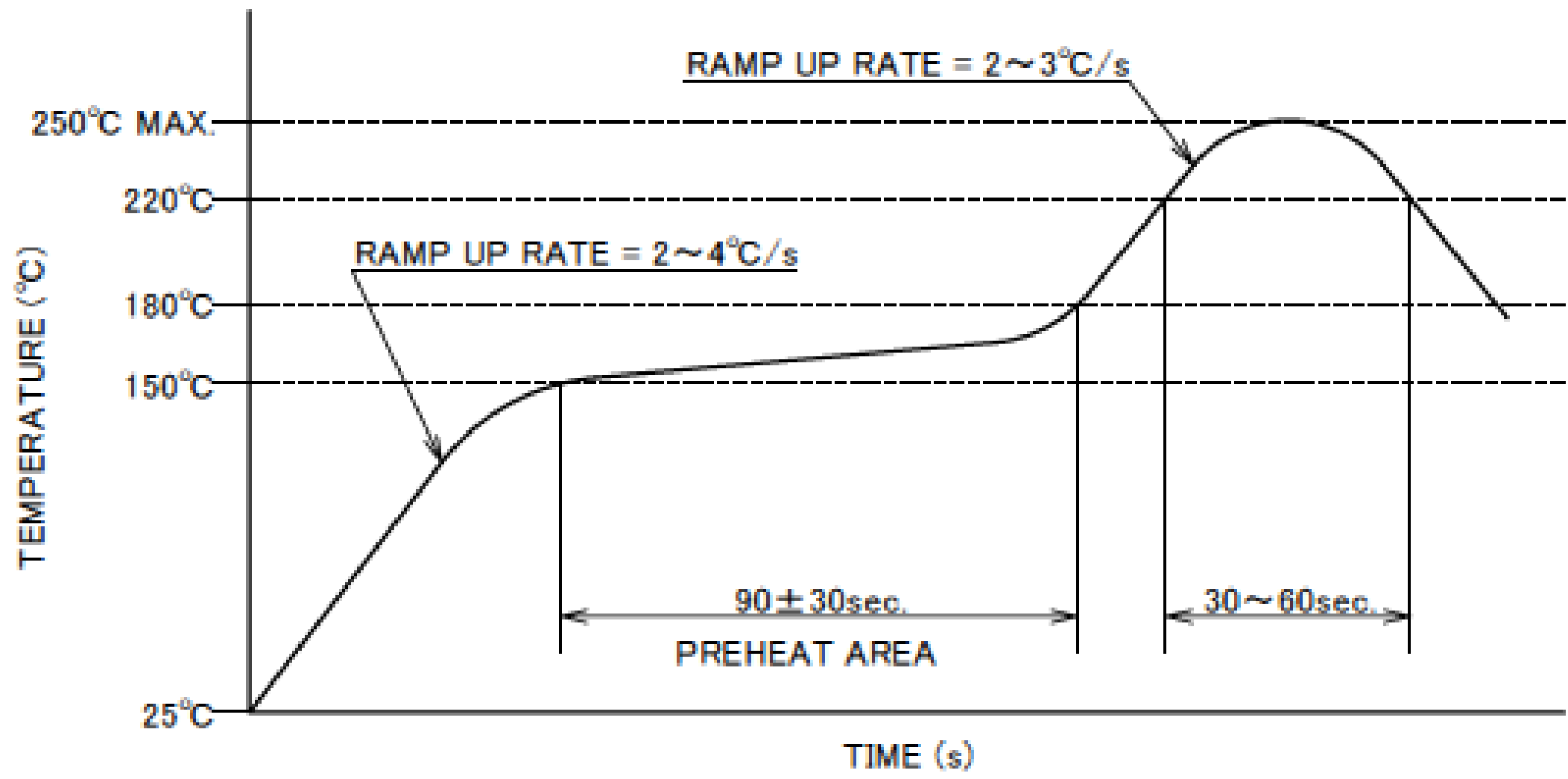
NOTES
2.MATERIAL
COVER FILM : PI
CONDUCTOR : COPPER(RARE)
BASE FILM : PI
STIFFENER : PI
ADHESIVE : THERMOSETTING ADHESIVE
3.FINISH
Au OVER Ni PLATING.

Rev.8

Receptacle for Cable Assembly



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.8

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.5A DC [FPC] (PER CONTACT) 0.7A DC [AWG#34] (PER CONTACT)
OPERATING TEMPERATURE	233~358K(−40°C~85°C)
OPERATING HUMIDITY	80% MAX.
CONTACT RESISTANCE	INITIAL : 40mohm MAX. / AFTER TEST : 120mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MAX. (PLUG CABLE) 100Mohm MIN. (FPC)
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL/ 20TH CYCLES : 0.6N(61gf) × (n + 2) MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL/ 20TH CYCLES : 0.05N(5gf) × (n + 2) MIN.
PLUG AND FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : 0.15N(15gf) × n + 2.0N MIN. / AFTER TEST : 0.15N(15gf) × n + 1.0N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-1880
TEST REPORT	TR-13103
PACKING STANDARD	PST-13047
INSTRUCTION MANUAL	HIM-14010 (FOR MATING PLUG CABLE) HIM-12019 (FOR MATING FPC)
APPEARANCE CRITERIA No.	QLS-A***

※ “n” IS THE NUMBER OF PIN

Rev.8

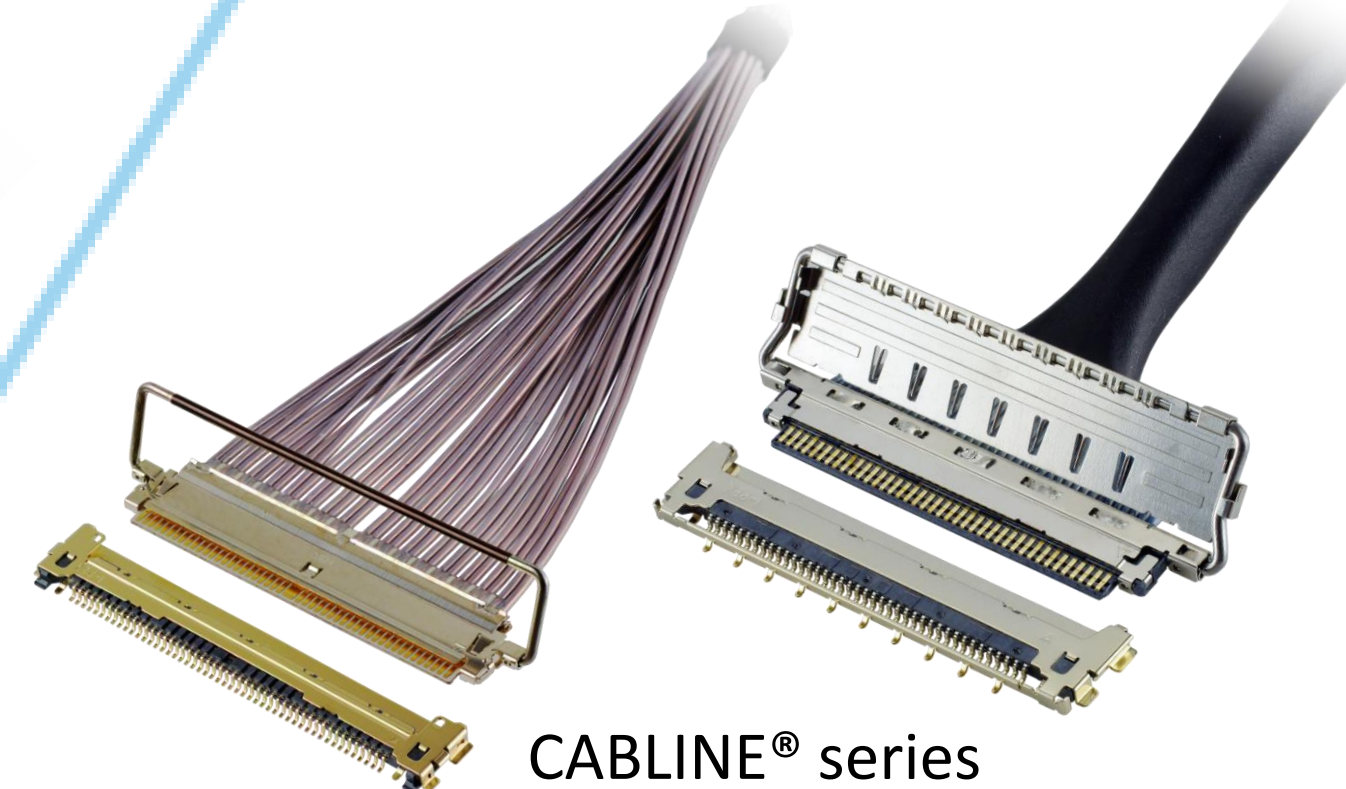
Custom Connectors Available

 RF
Connectors

MHF® series



Micro-coaxial/Twinax
Connectors

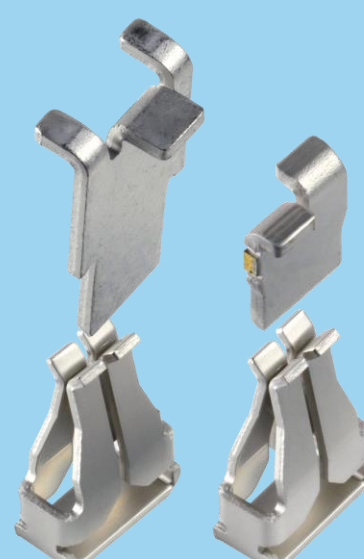


CABLIN® series

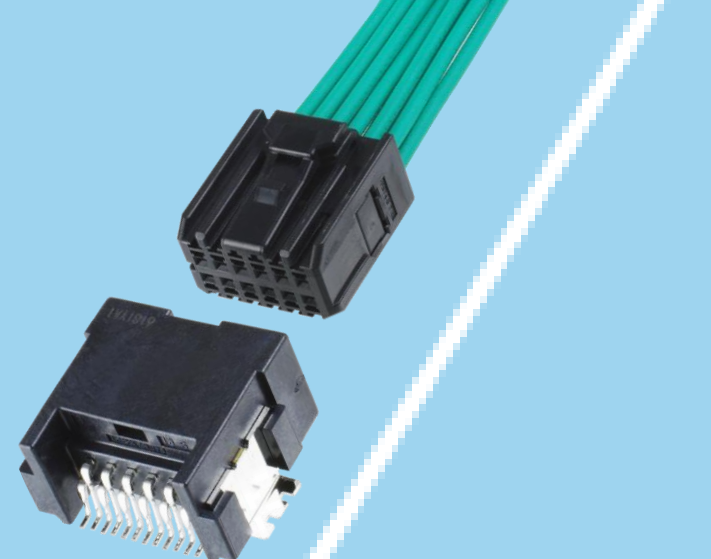


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



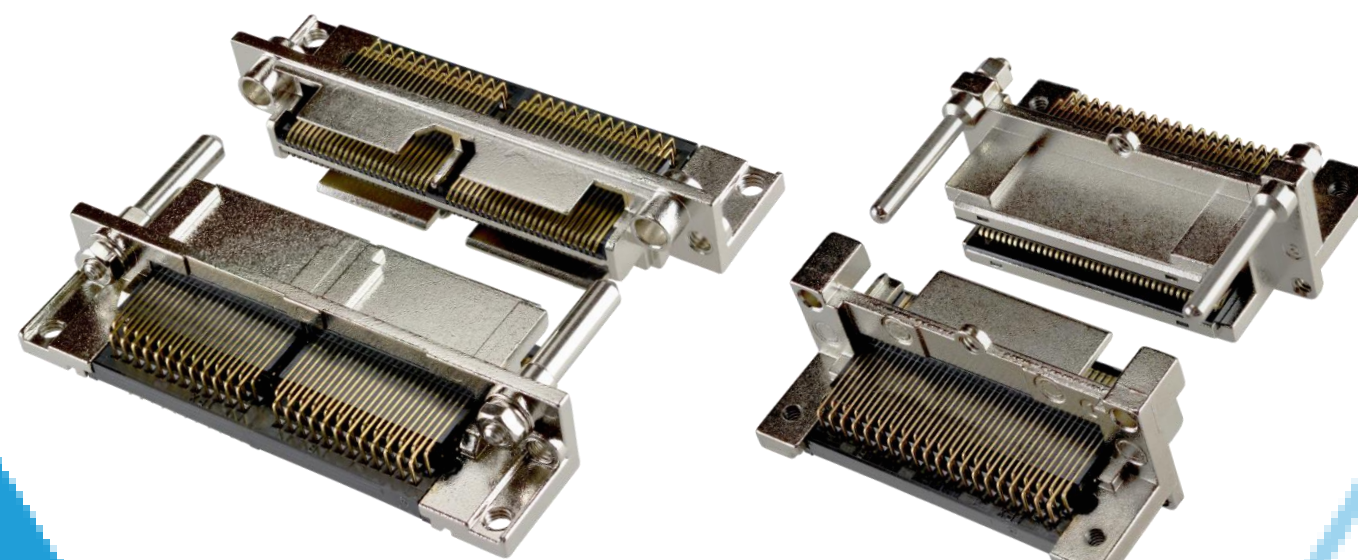
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



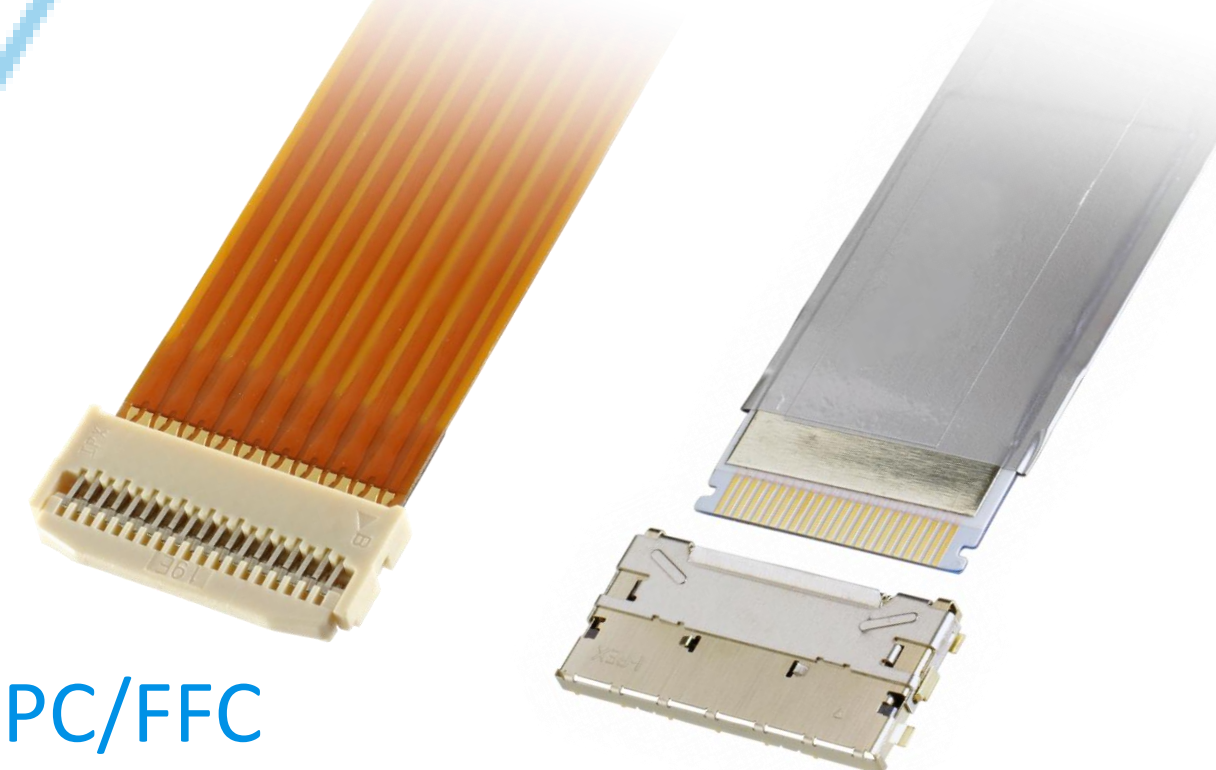
MINIDOCK™ series



FPC/FFC
Connectors

MINIFLEX® series

EVAFLEX® series



Inquiry



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