

CABLINE® -CBL

適用於高速數據傳輸 (20 Gbps/lane), 低嵌合高度 (嵌合高度 0.975 mm max.) , 機械鎖扣, 帶屏蔽, 多點接地設計, 0.4 mm 間距, 水平插拔款的極細同軸線連接器

Product Specifications:

Mating type	Horizontal	
Board Pitch	0.4 mm	
Wiping Length	0.44 mm	
Mated Size	Height	0.975 mm max.
	Width	6.44 + (0.4 x pin count) mm
	Depth	5.44 mm
Pin Counts	Range	Up to 40
	Available	30, 40

Applicable Cable Size:

Maximum O.D.	0.4 mm
Micro-Coaxial for Signal	45 ohm: AWG 40 or smaller wire
	50 ohm: AWG 40 or smaller wire
Twinaxial	-
Discrete	AWG 36 or smaller wire

Applicable Standards (Reference Only):

DP UHBR20 (20 Gbps/ Lane), V-by-One® US (16 Gbps/Lane), HDMI 2.1 (12 Gbps/ Lane)

*若有規格外 Pin 數需求, 請與當地負責業務窗口聯繫。

*較低高度 0.4 mm 間距連接器 CABLINE®-CAL (組合高度: 最高 0.8 mm) 也可提供。



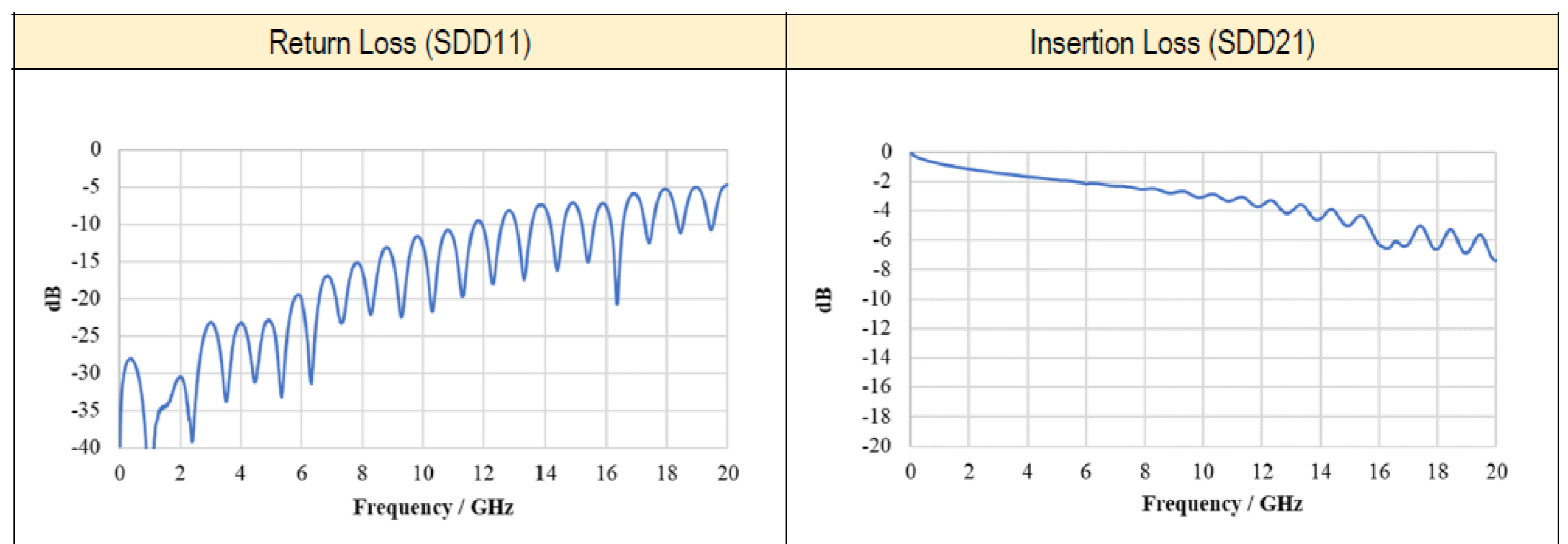
► 高速率傳輸, 20 Gbps/lane 應用的理想選擇

Measurement results

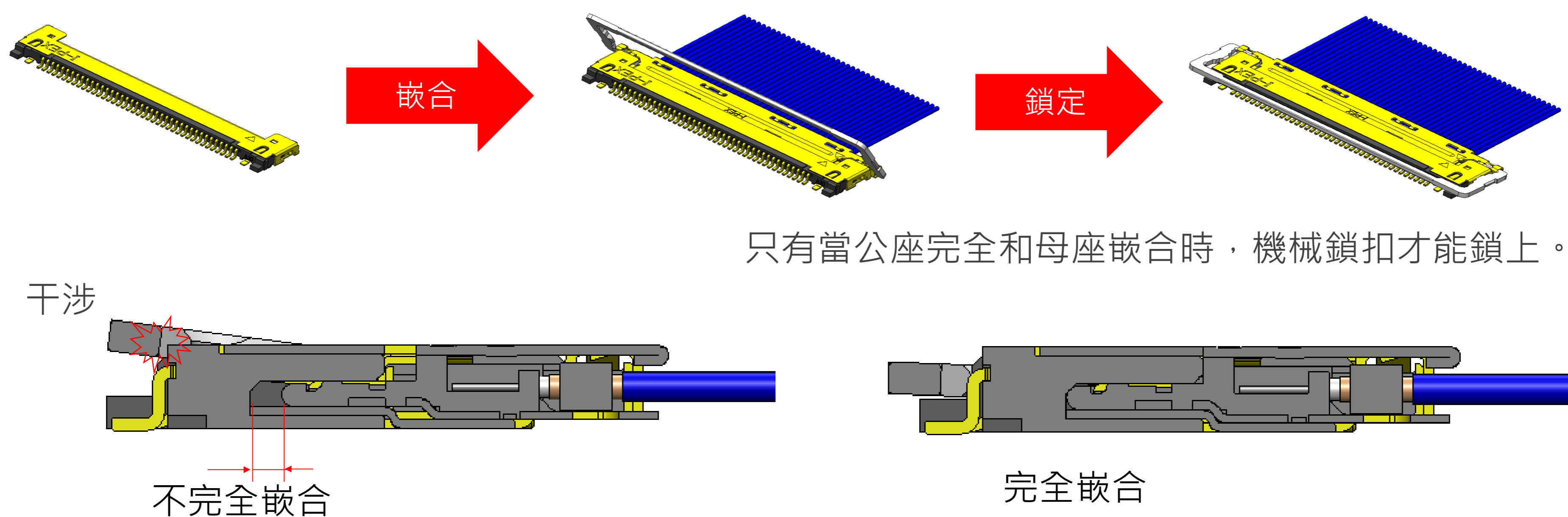
Connector: CABLINE-CBL 40 pin

Cable: Micro-coaxial cable
AWG 40, 45ohm, Length: 100 mm

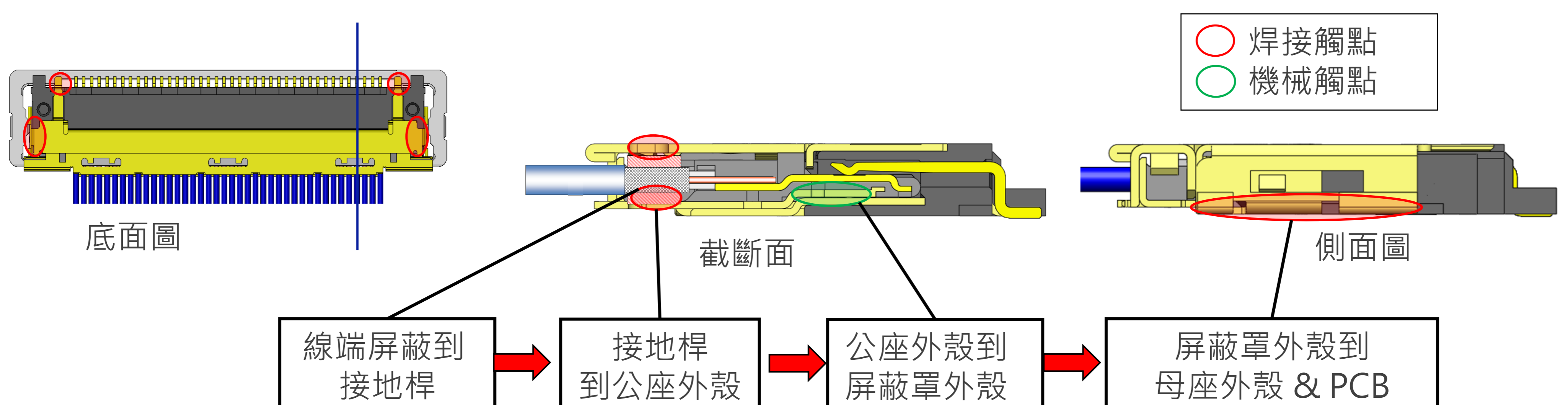
Pin Assignment: GSSGSSG



► 機械鎖扣防止連接器不完全嵌合及脫落/未嵌合

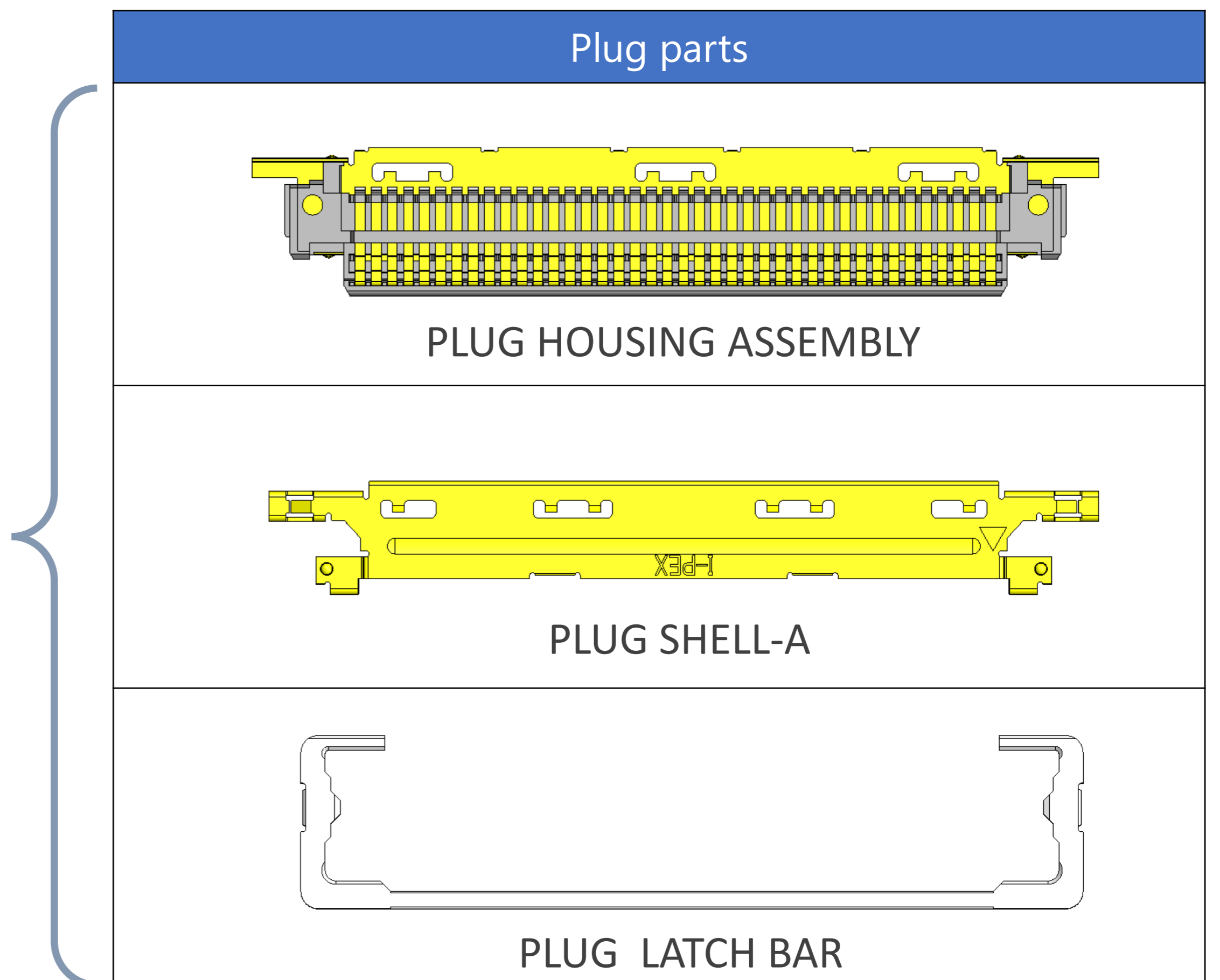
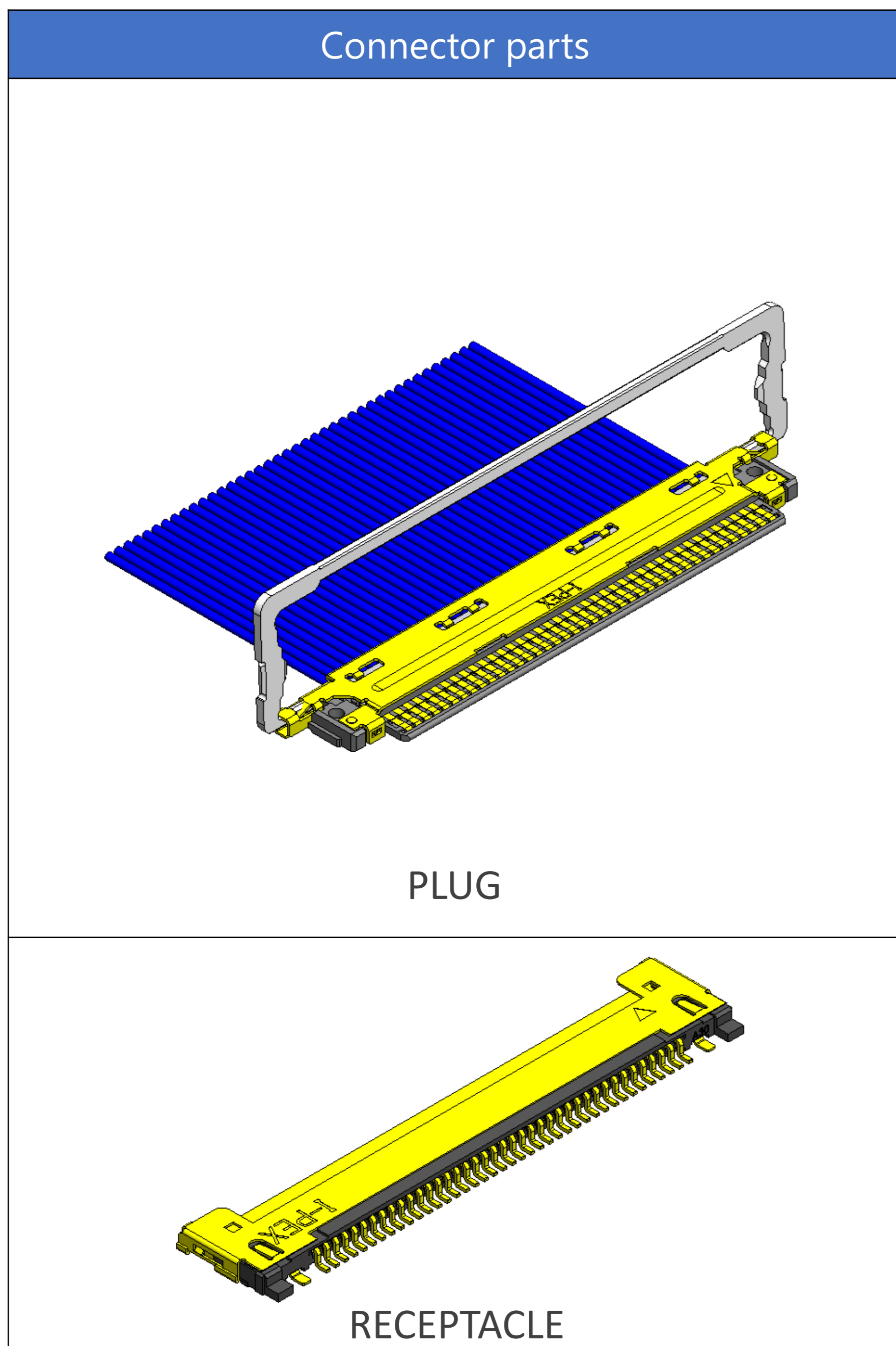


► 多點接地設計具有良好的抗EMI性能



Component Parts Details

Component Parts



Plug for Cable Assembly

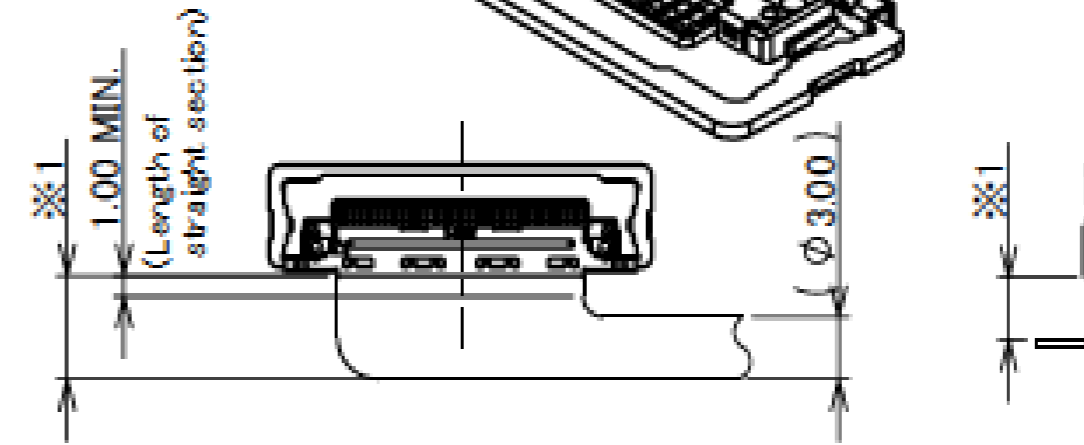
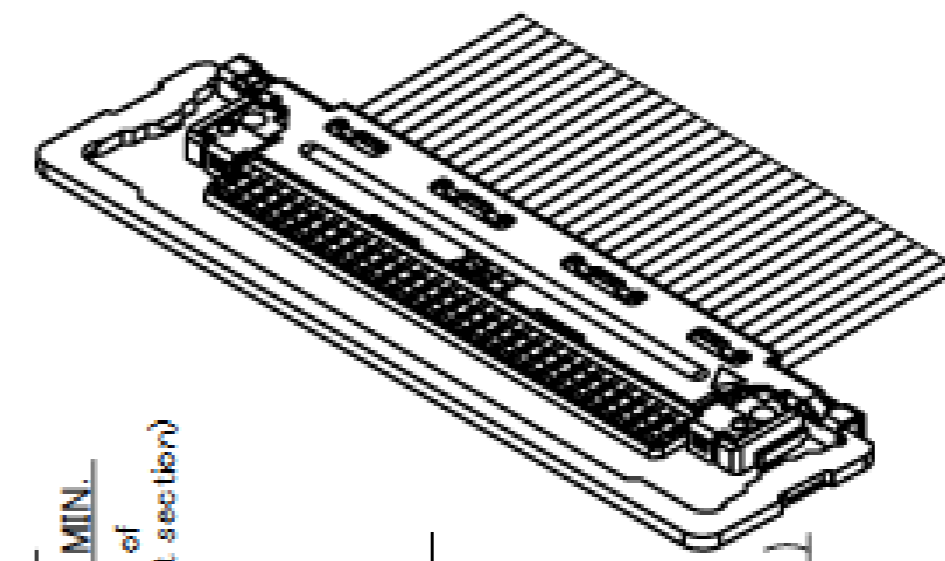
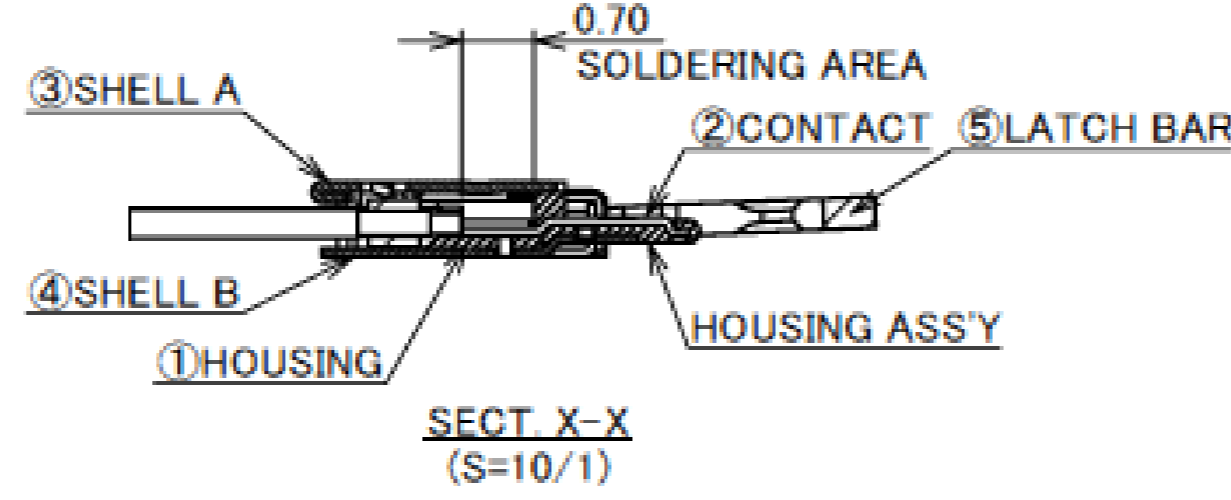
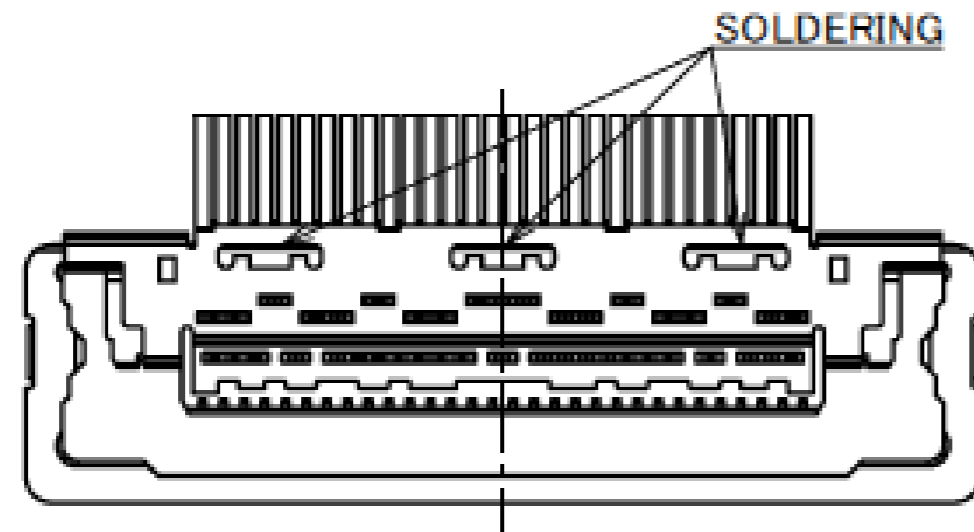
Recommended P/N		20472-0**T-10			
PART NO.	POS.	A	B	C	D
20472-030T-10	30	11.60	12.40	18.44	13.00
20472-040T-10	40	15.60	16.40	22.44	17.00

P/N : 20472-#**T-10

POS.
0: WITH LATCH BAR
1: WITHOUT LATCH BAR

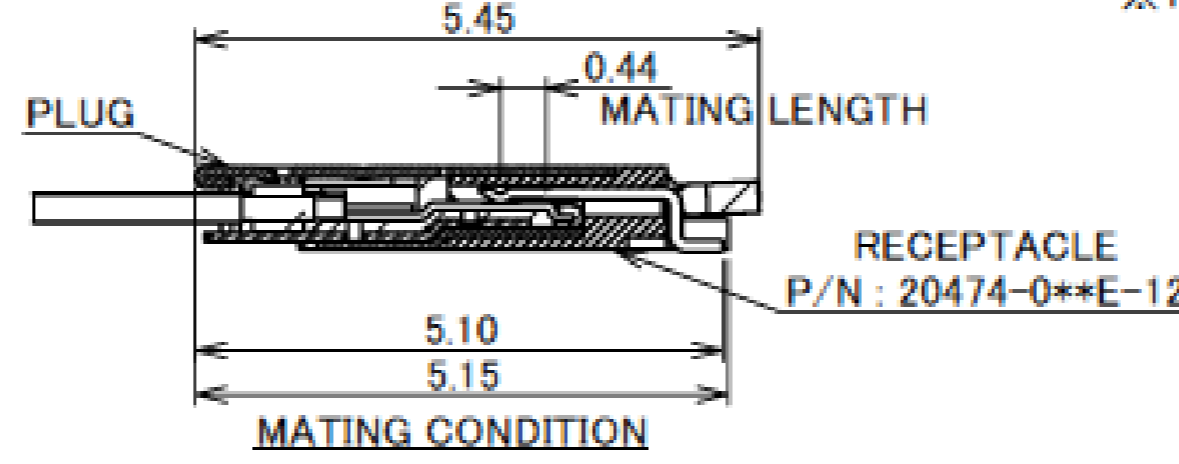
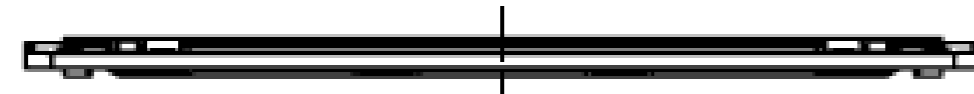


Halogen Free RoHS Compliant

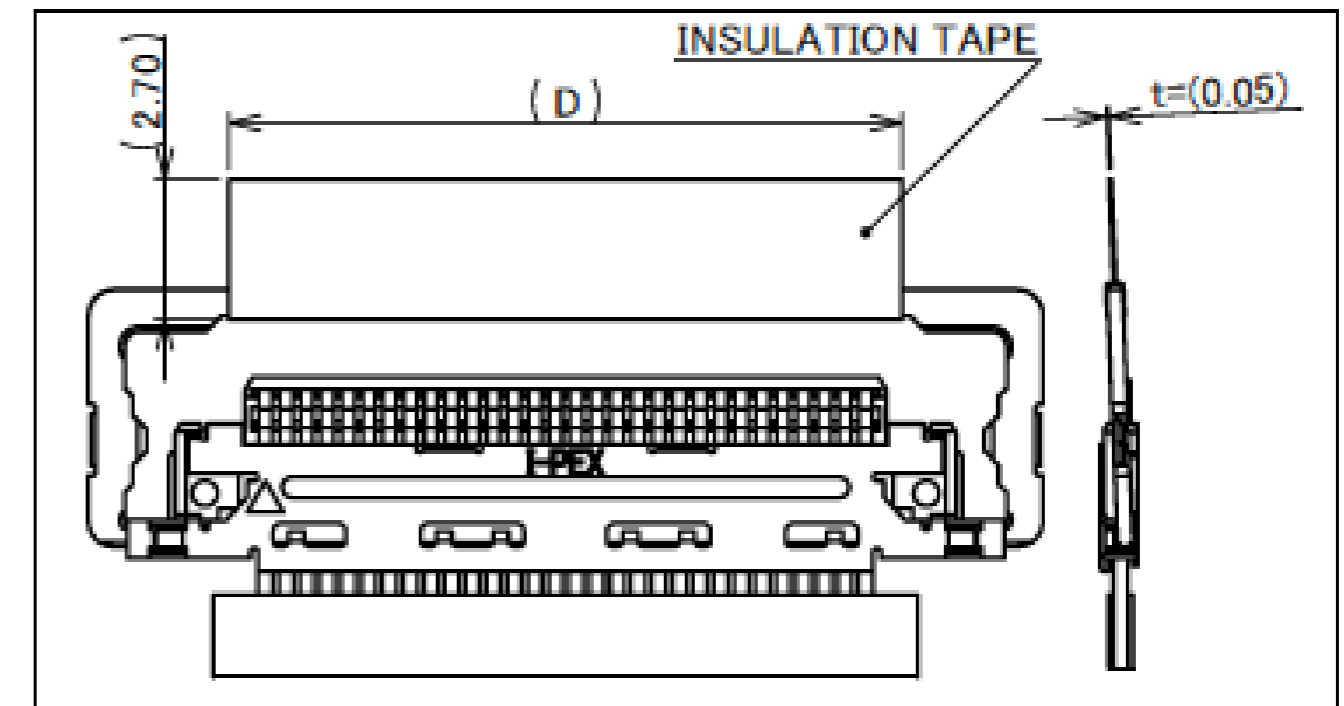


REFERENCE CABLE BENDING DIMENSIONS

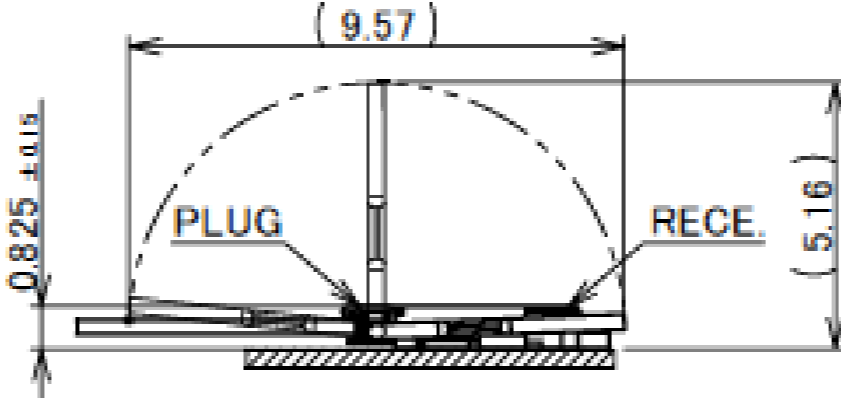
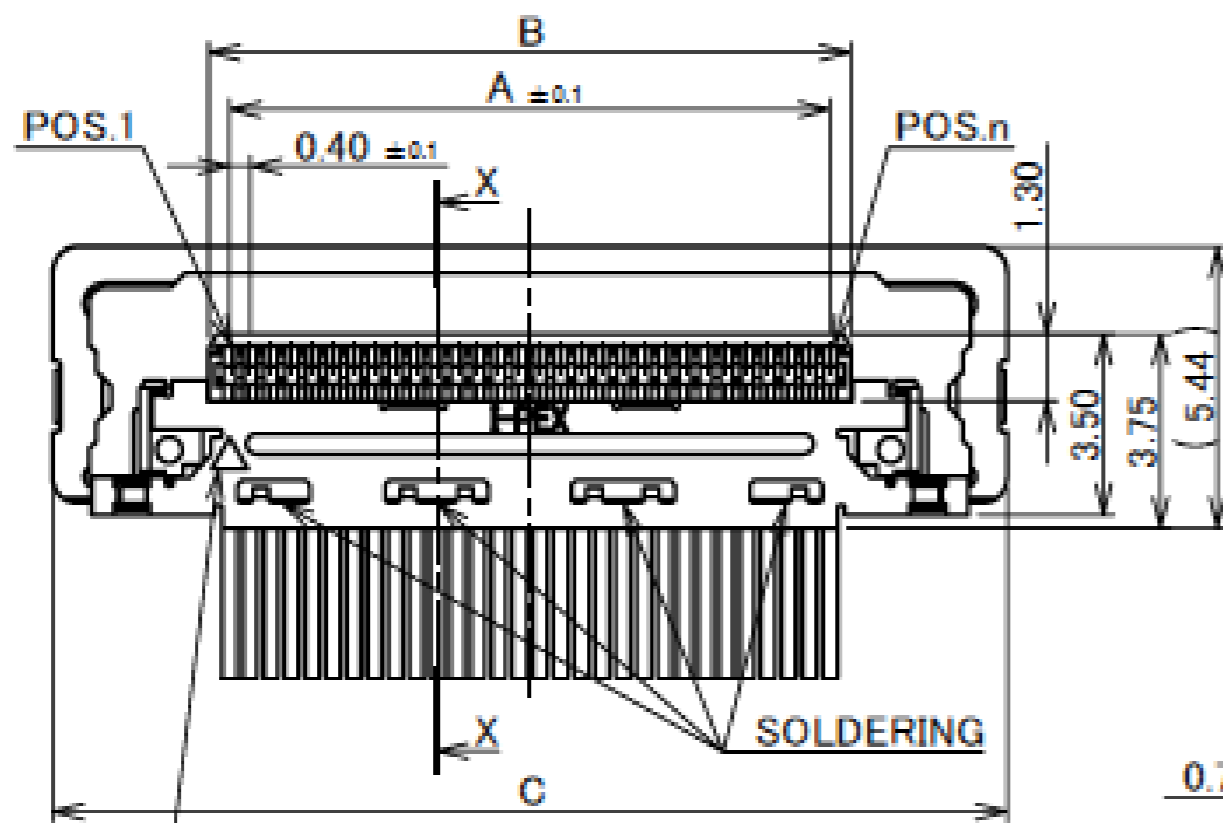
※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.



MATING CONDITION

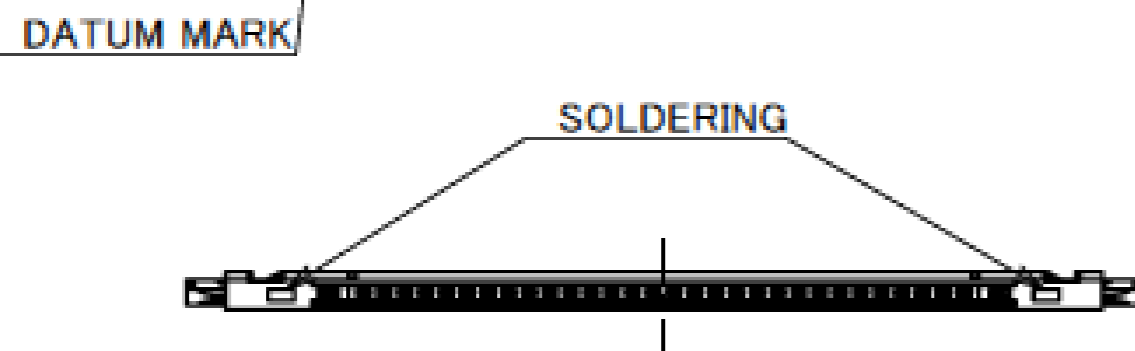


INSULATION TAPE RECOMMENDED DIMENSIONS



LATCH MOVEMENTS

5	LATCH BAR	SUS	
4	SHELL B	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
3	SHELL A	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS



WITH LATCH BAR

Rev.15

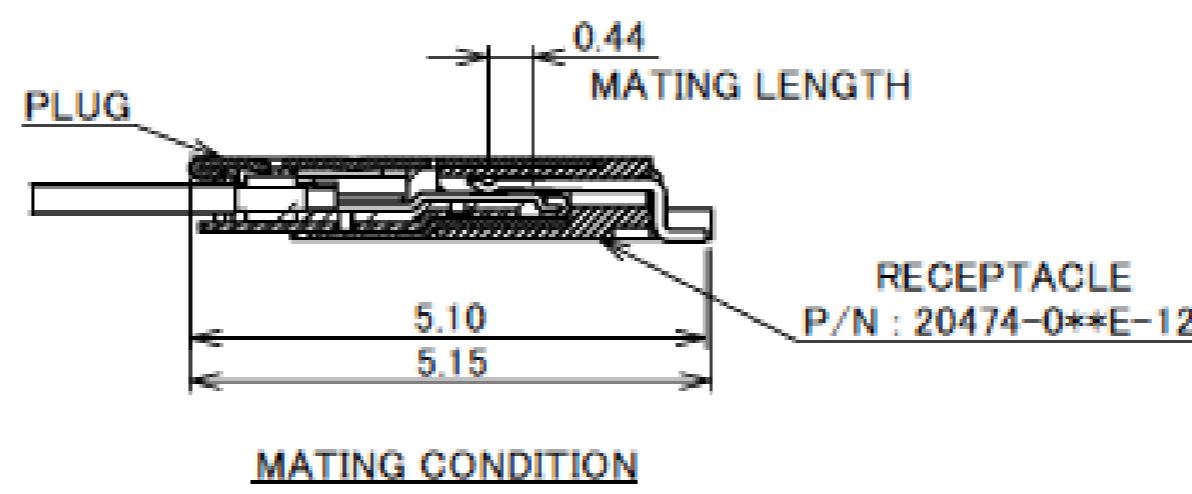
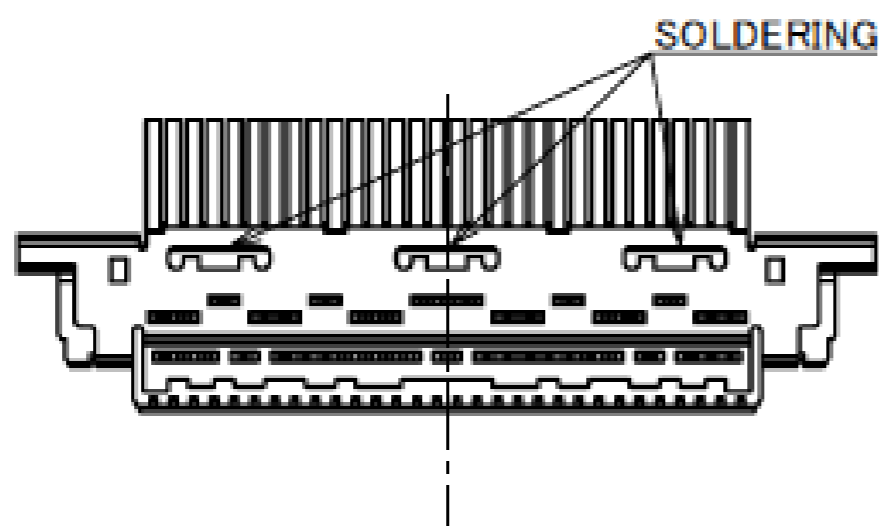
Recommended P/N		20472-0**T-10			
PART NO.	POS.	A	B	E	
20472-130T-10	30	11.60	12.40	16.94	
20472-140T-10	40	15.60	16.40	20.94	

P/N : 20472-#**T-10

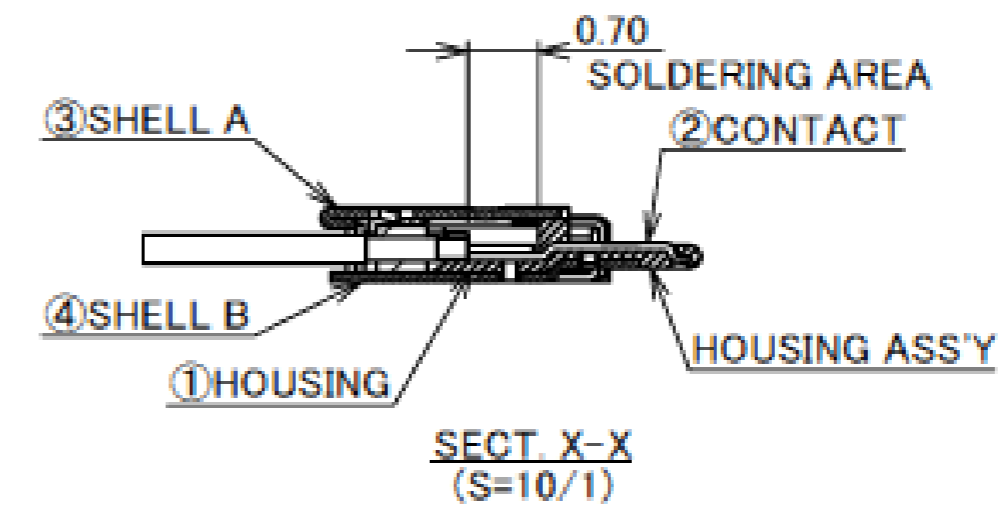
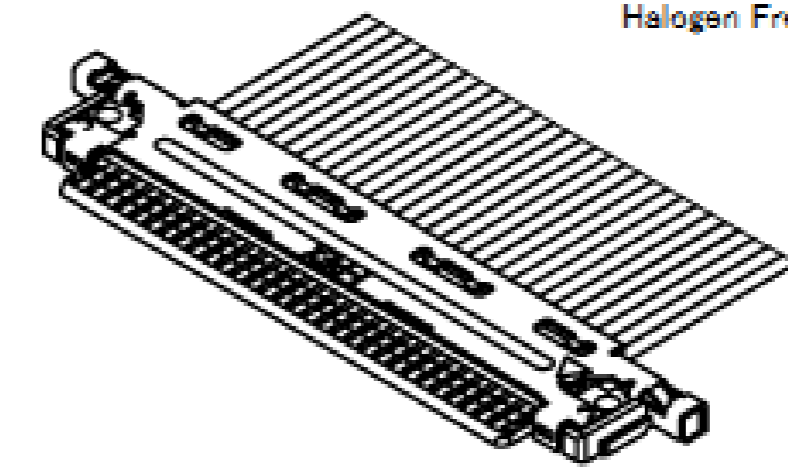
POS.
0: WITH LATCH BAR
1: WITHOUT LATCH BAR



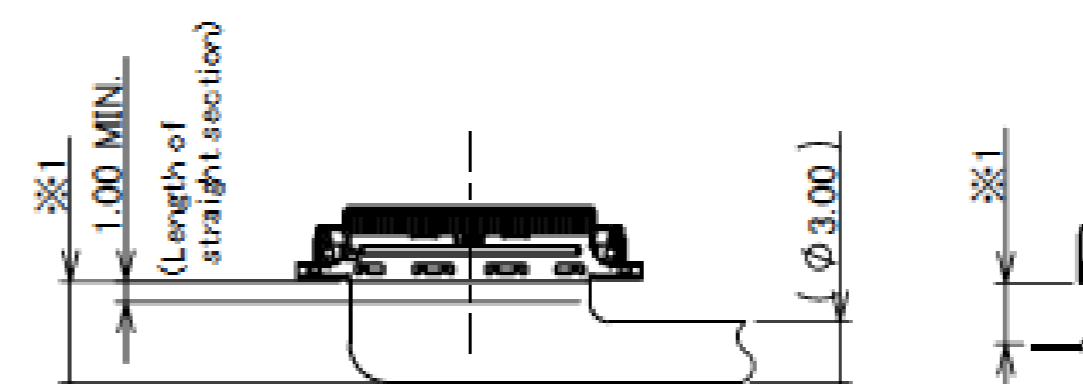
Halogen Free RoHS Compliant



MATING CONDITION

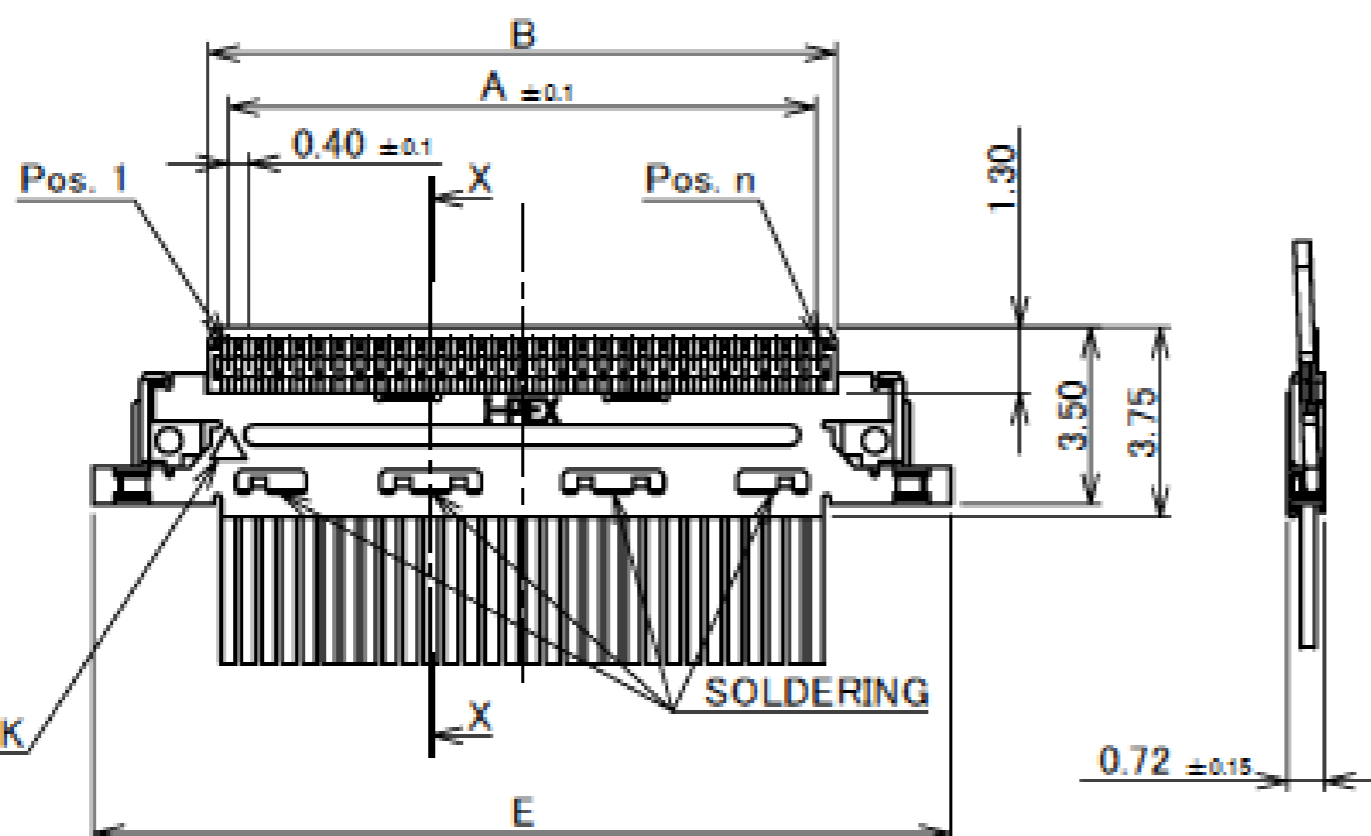


SECT. X-X
(S=10/1)

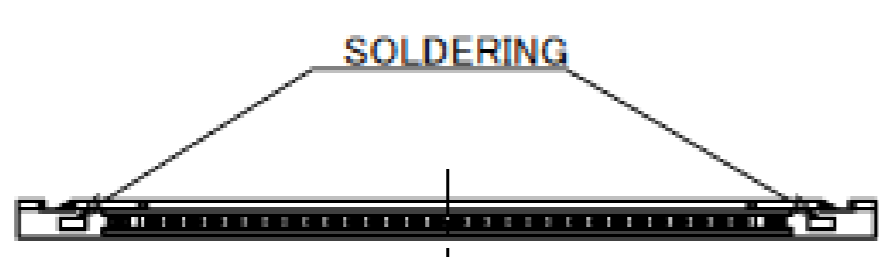


REFERENCE CABLE BENDING DIMENSIONS

※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.



DATUM MARK

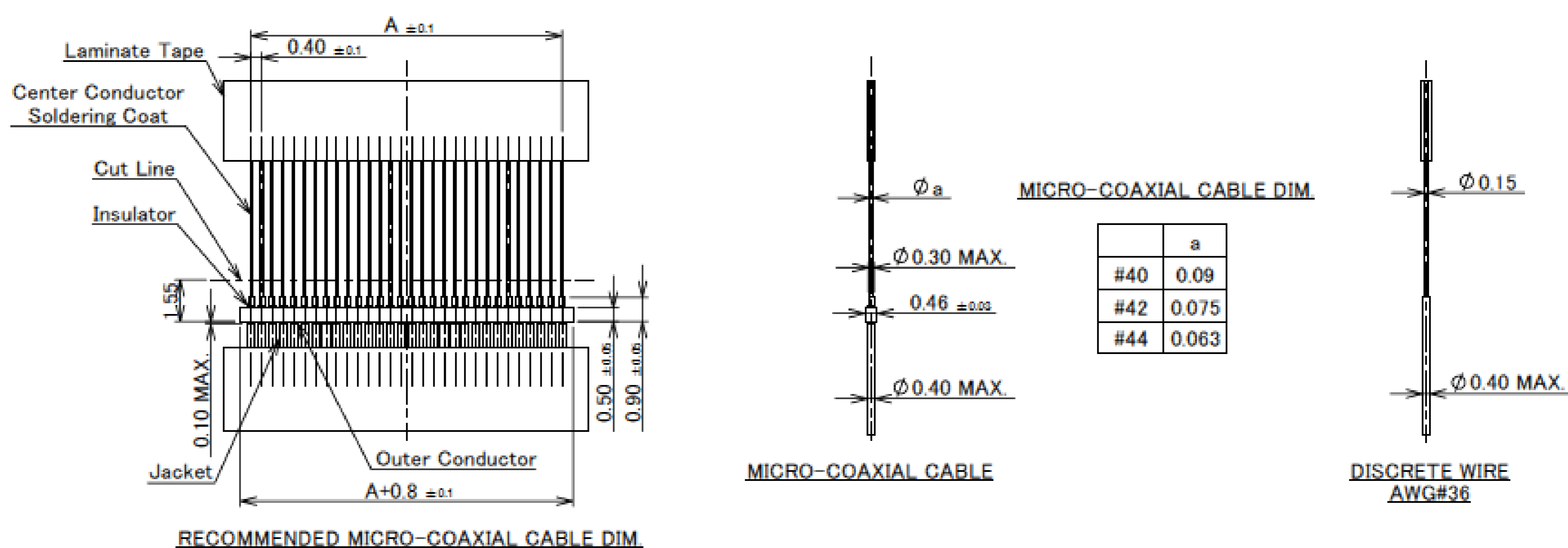


WITHOUT LATCH BAR

Rev.15

Plug for Cable Assembly

PART NO.	POS.	A
20472-#30T-10	30	11.60
20472-#40T-10	40	



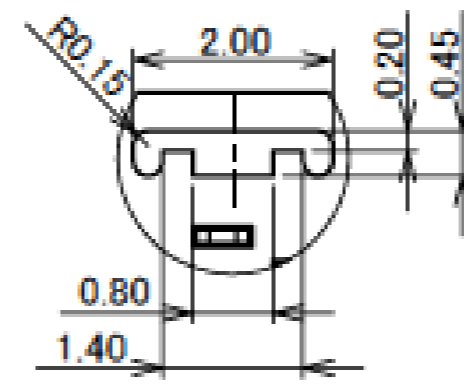
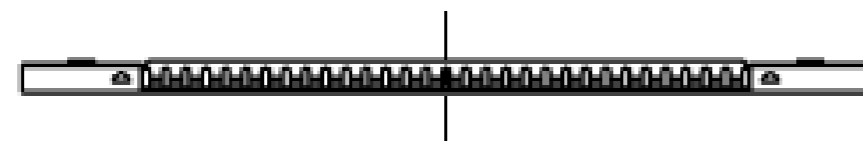
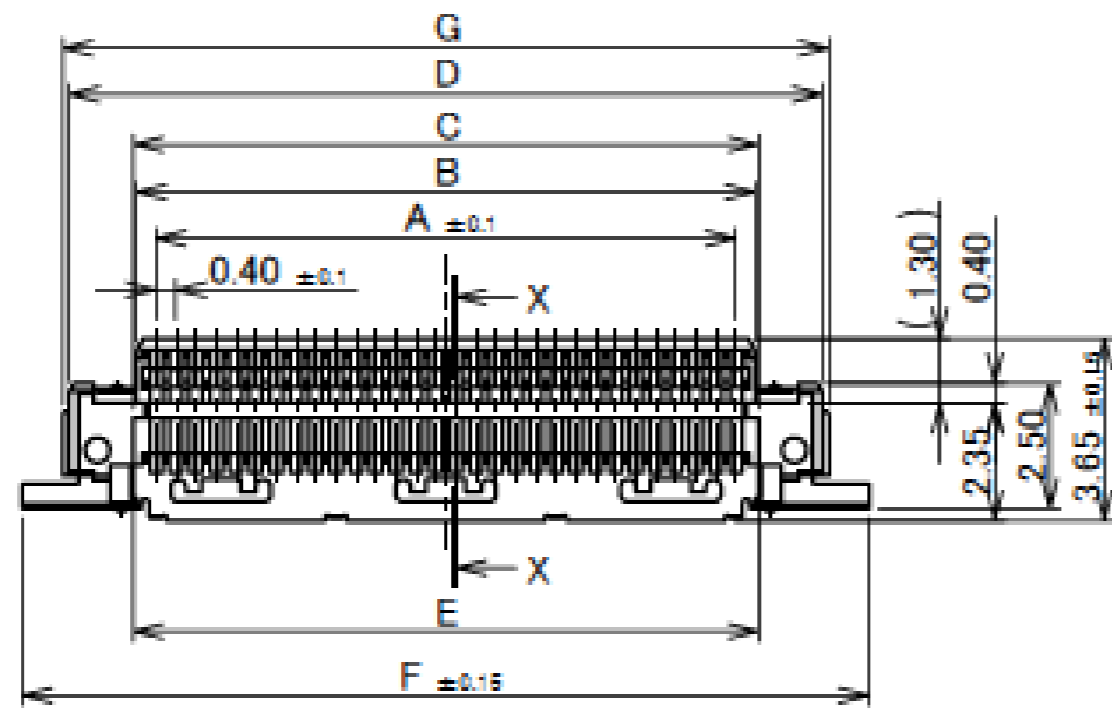
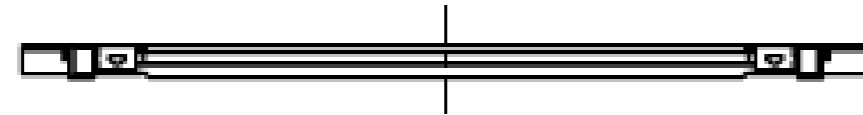
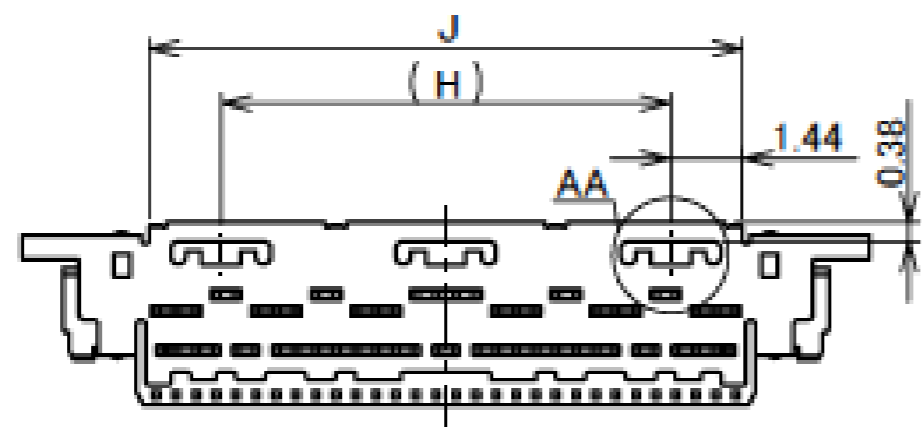
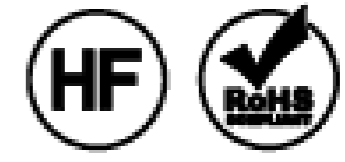
Rev.15

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 40, 42, 44 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN 0.24A AC/DC [AWG#42] PER CONTACT PIN 0.3A AC/DC [AWG#40] PER CONTACT PIN 0.8A AC/DC [AWG#36] PER CONTACT PIN ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 275mohm MAX. (AWG#36) / AFTER TEST : \triangleleft40mohm MAX. 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : \triangleleft40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 10N MAX. 40P : 12N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 40P : 4.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 40P : 19.60N MIN.
PRODUCT SPECIFICATION	PRS-1421
TEST REPORT	TR-08030
INSTRUCTION MANUAL	HIM-09002
ASSEMBLY MANUAL	ASM-09002
APPEARANCE CRITERIA No.	QLS-A***

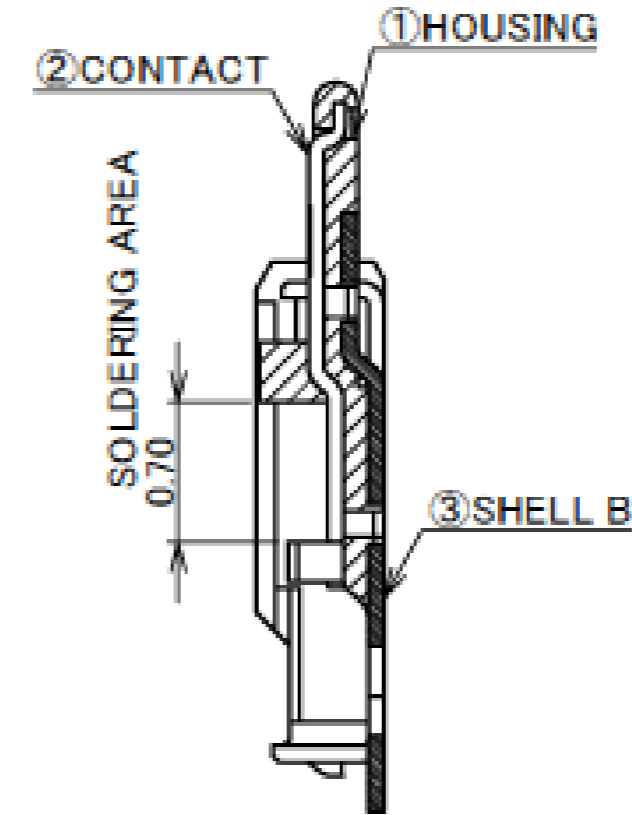
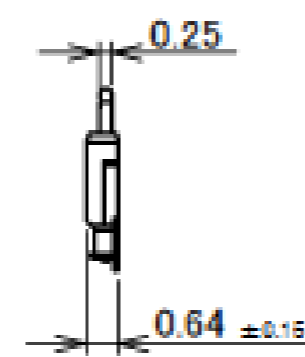
Rev.15

Plug Housing Assembly

Recommended P/N		20473-0**T-10									
PART NO.	POS.	A	B	C	D	E	F	G	H	J	
20473-030T-10	30	11.60	12.40	12.65	15.08	12.65	16.94	15.34	9.00	11.88	
20473-040T-10	40	15.60	16.40	16.65	19.08	16.65	20.94	19.34	13.00	15.88	



DETAIL AA
(S=10/1)



SECT. X-X
(S=10/1)

NOTES

- THIS PART IS ASSEMBLED WITH SHELL A(P/N 2618-0**1) AND LATCH BAR(P/N 2619-***0) AFTER SOLDERED THE CABLE, AND IT BECOMES P/N 20472-0**T-10

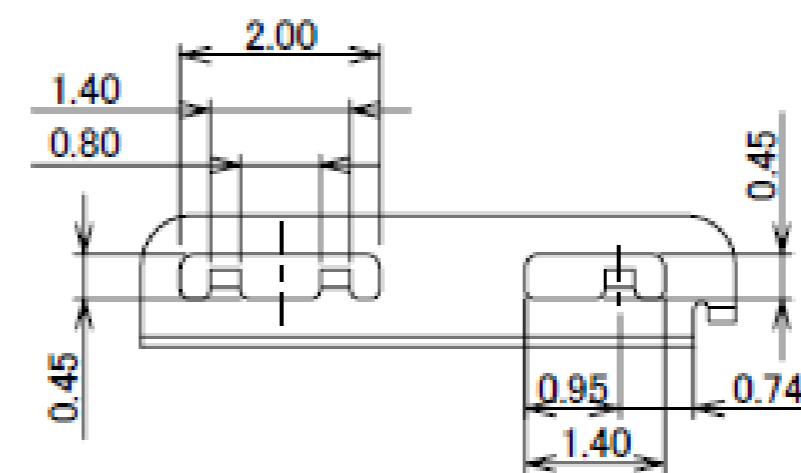
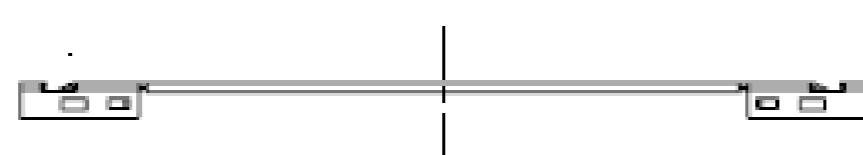
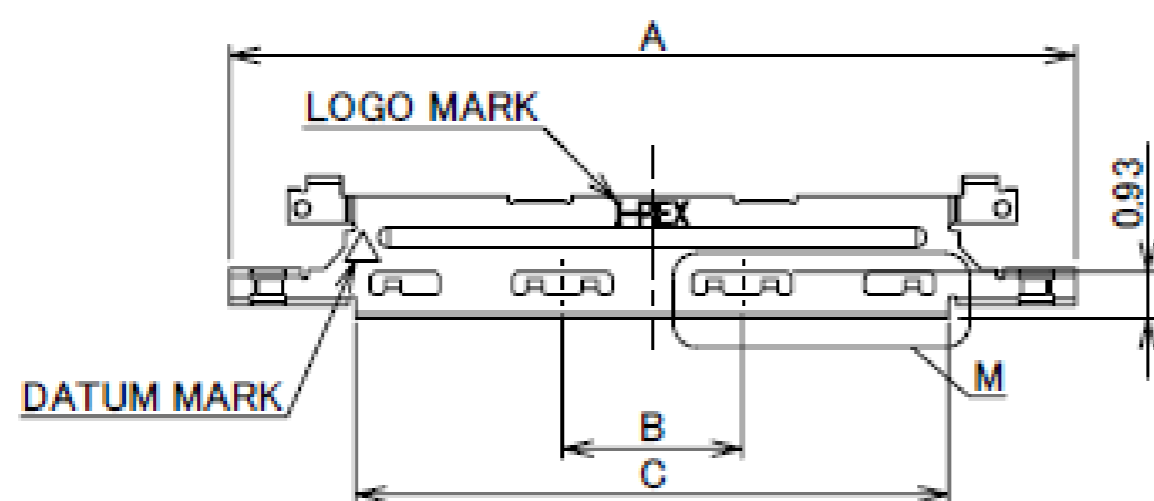
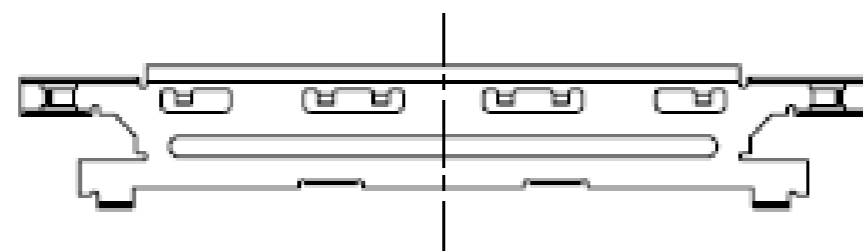
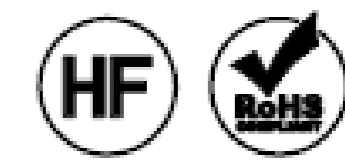
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL B	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.6

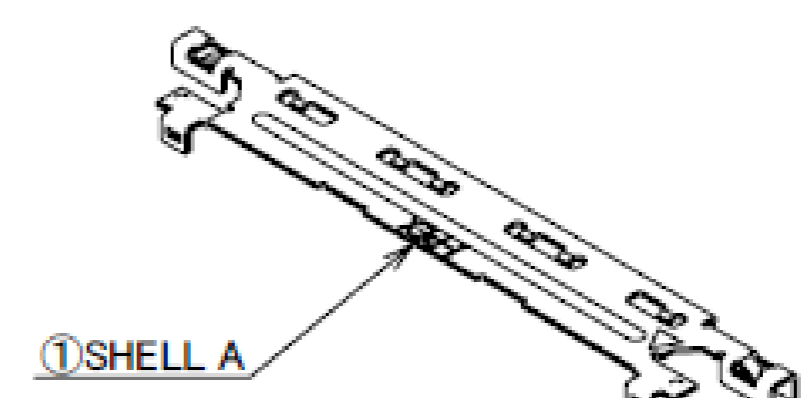
Plug Shell-A

Recommended P/N		2618-0**1		
PART NO.	POS.	A	B	C
2618-0301	30	16.94	3.60	11.88
2618-0401	40	20.94	5.60	15.88

P/N:2618-0**1
POS.



DETAIL M
(S=10/1)



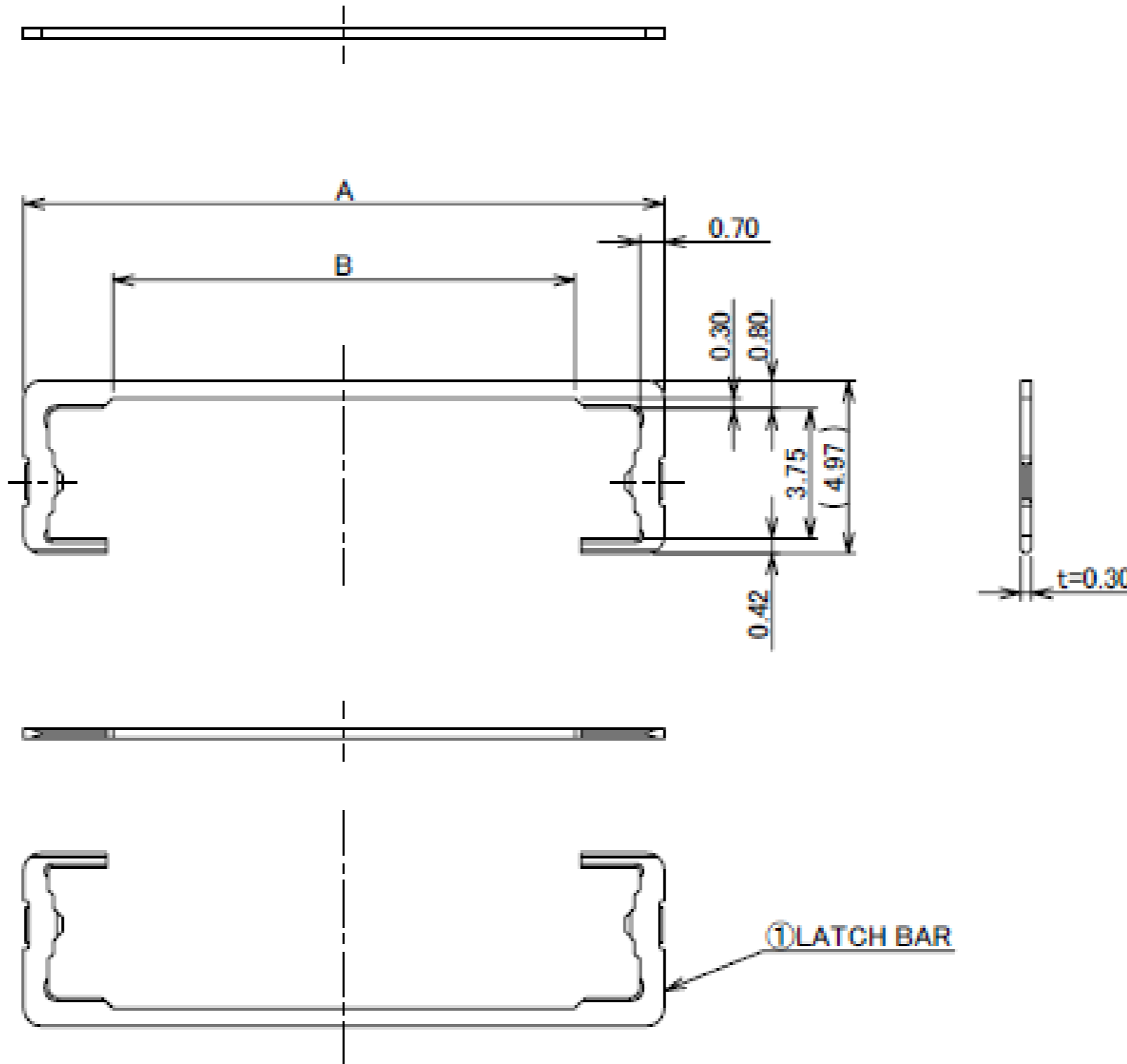
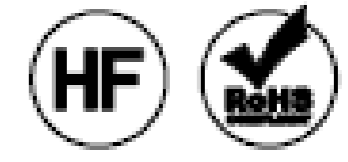
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	SHELL A	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.

Rev.5

Plug Latch Bar

Recommended P/N		2619-0**0	
PART NO.	POS.	A	B
2619-0300	30	18.44	13.00
2619-0400	40	22.44	17.00

2619-0**0
POS.

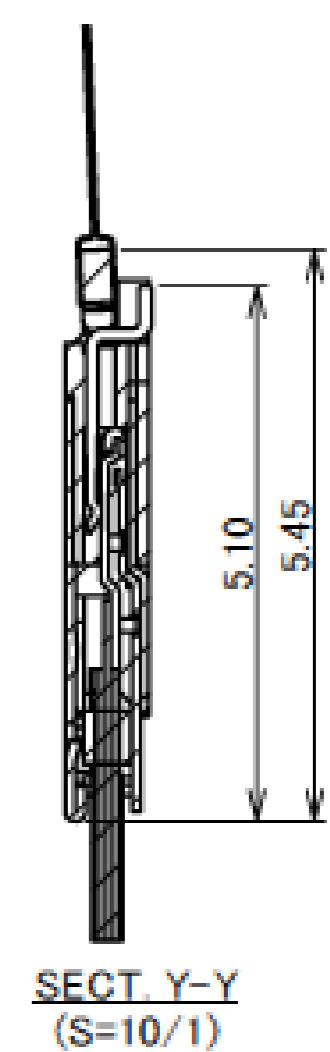
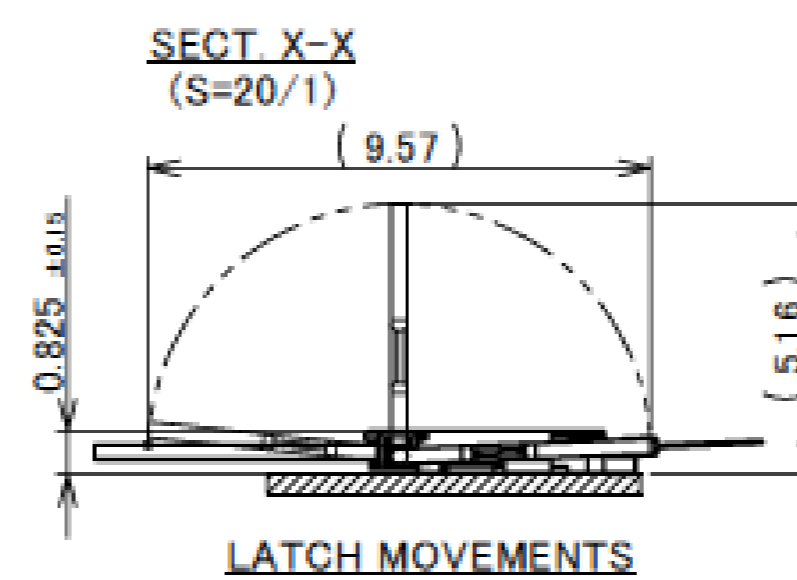
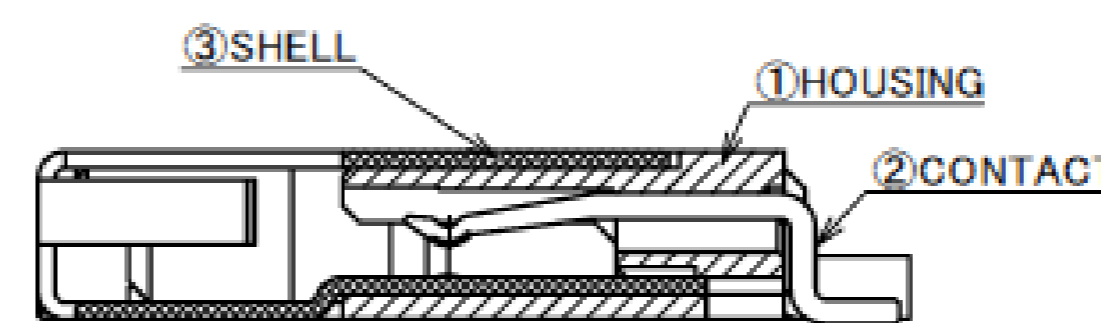
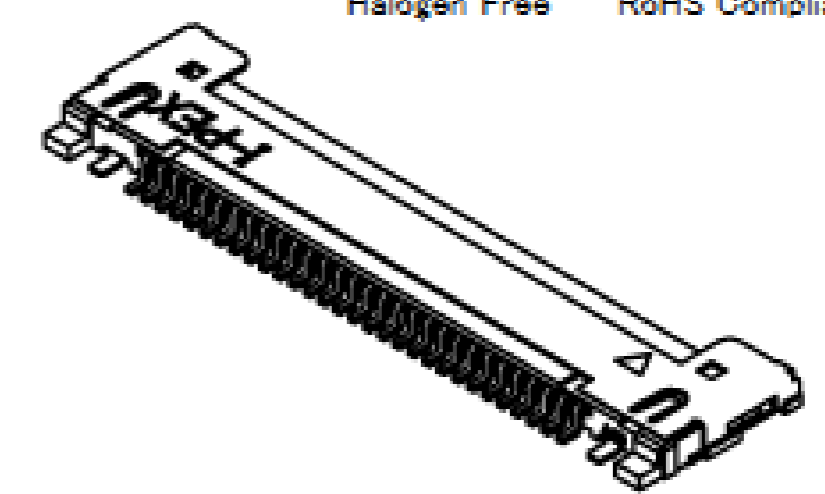
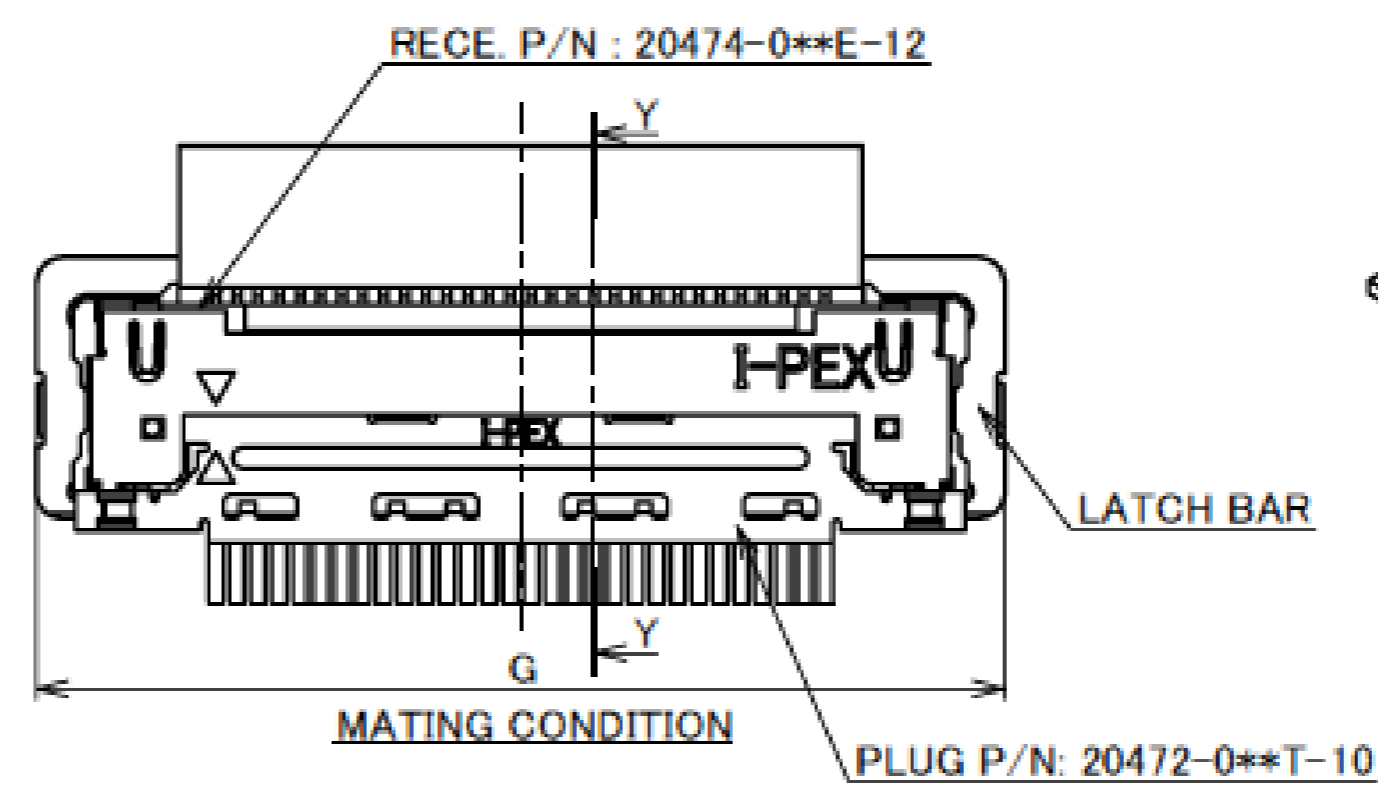
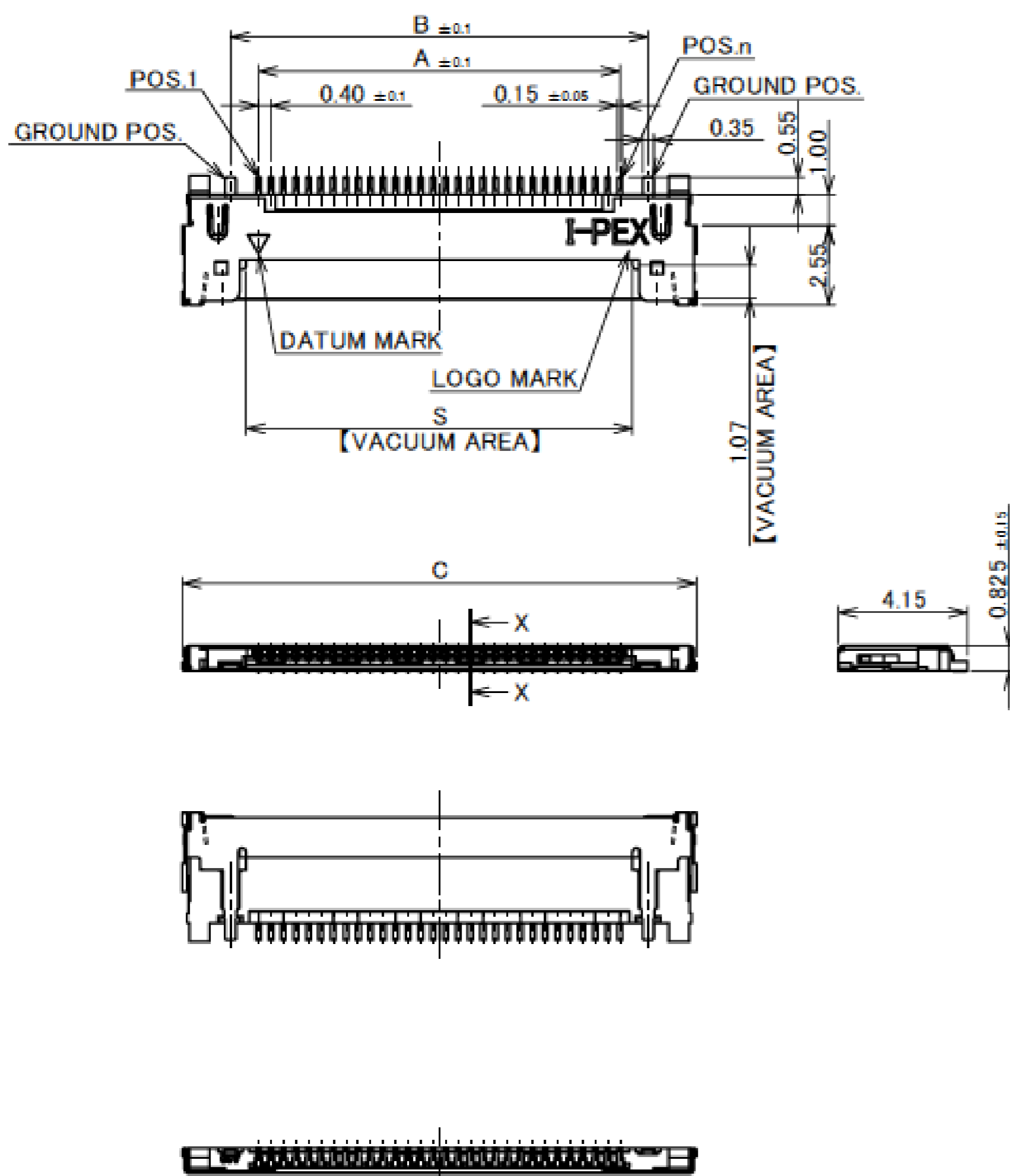


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	LATCH BAR	SUS	-

Rev.7

Receptacle Assembly

Recommended P/N		20474-0**E-12				
PART NO.	POS.	A	B	C	G	S
20474-030E-12	30	11.60	13.40	16.50	18.44	12.40
20474-040E-12	40	15.60	17.40	20.50	22.44	16.40

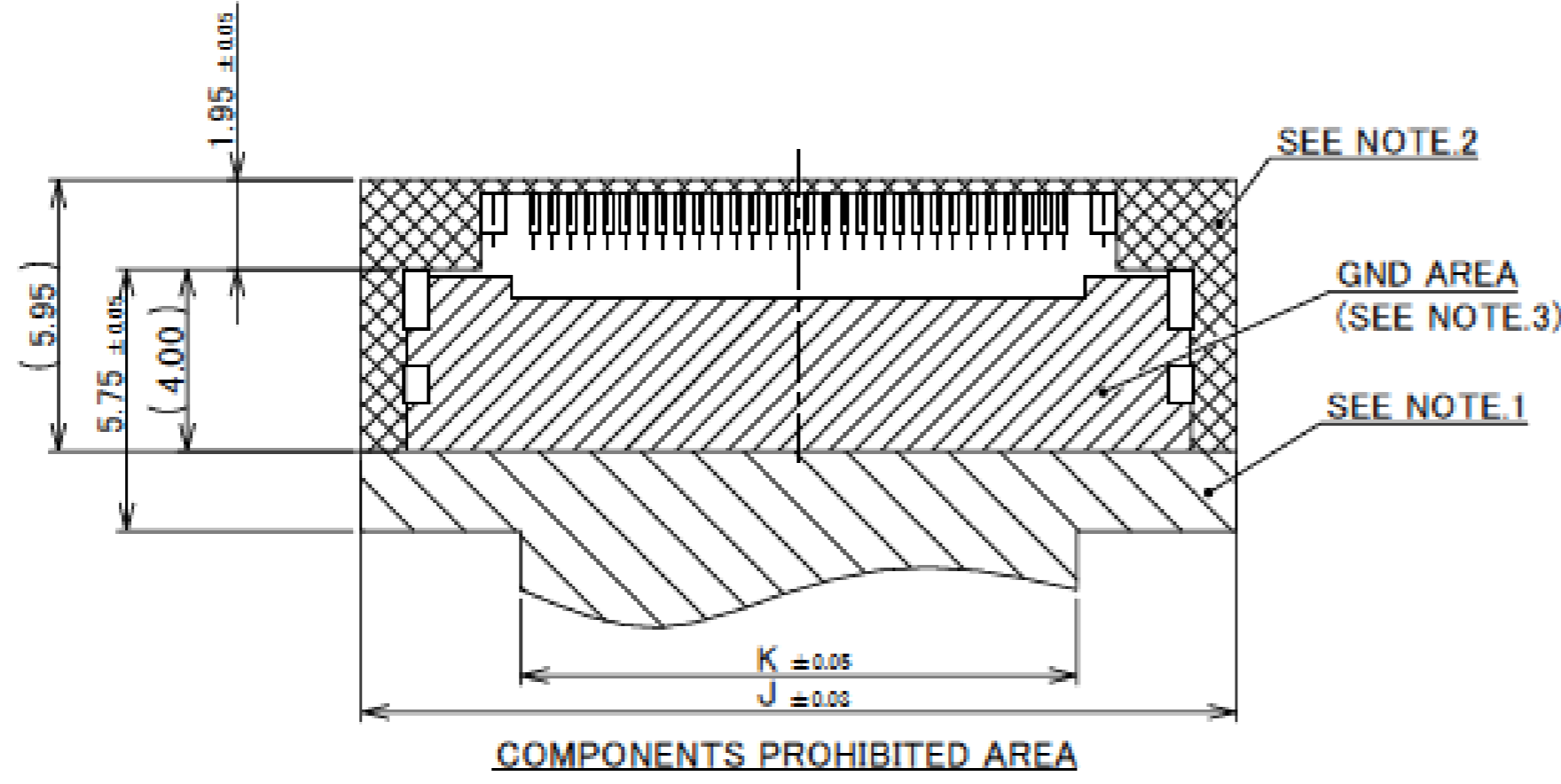
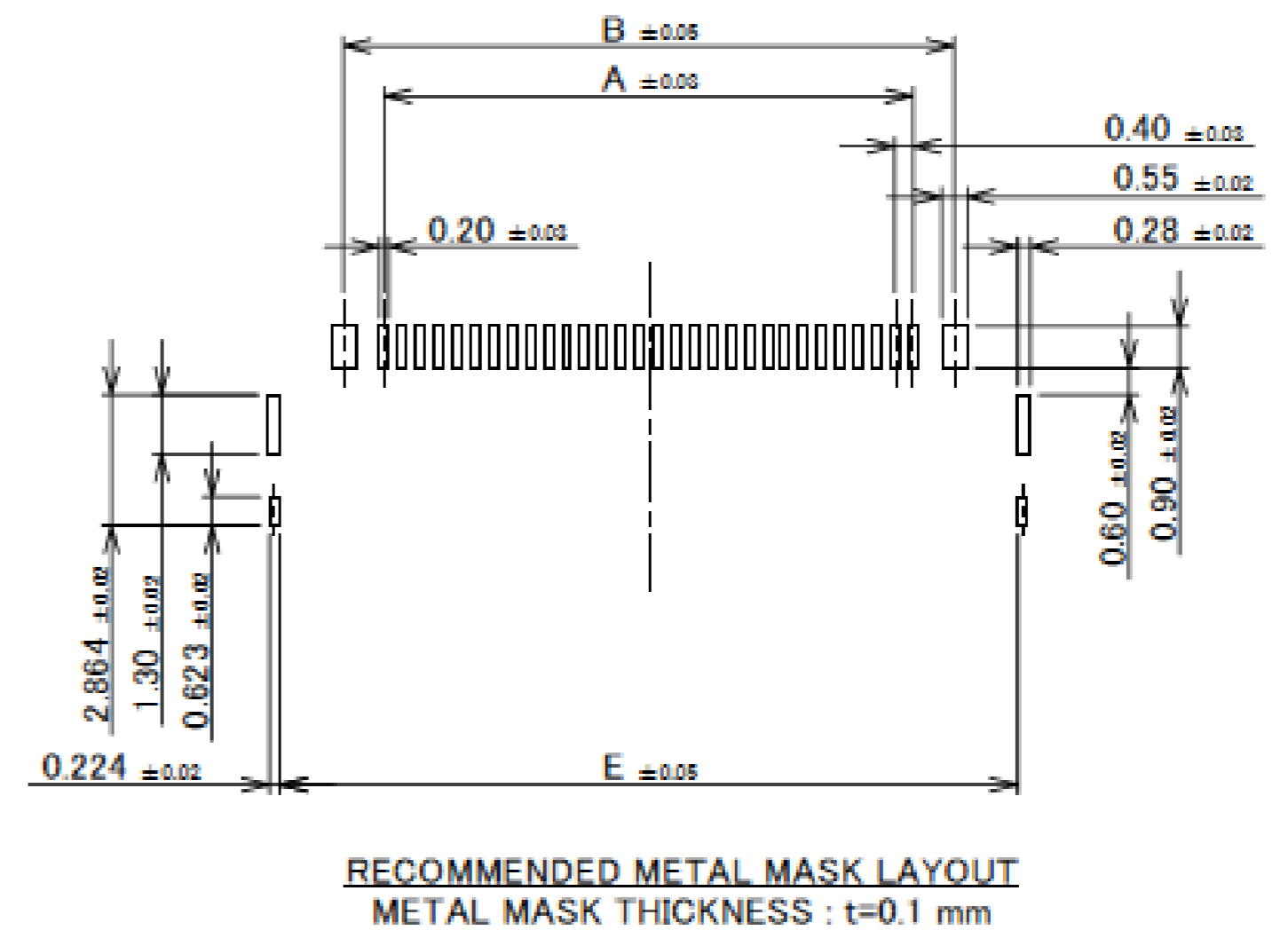
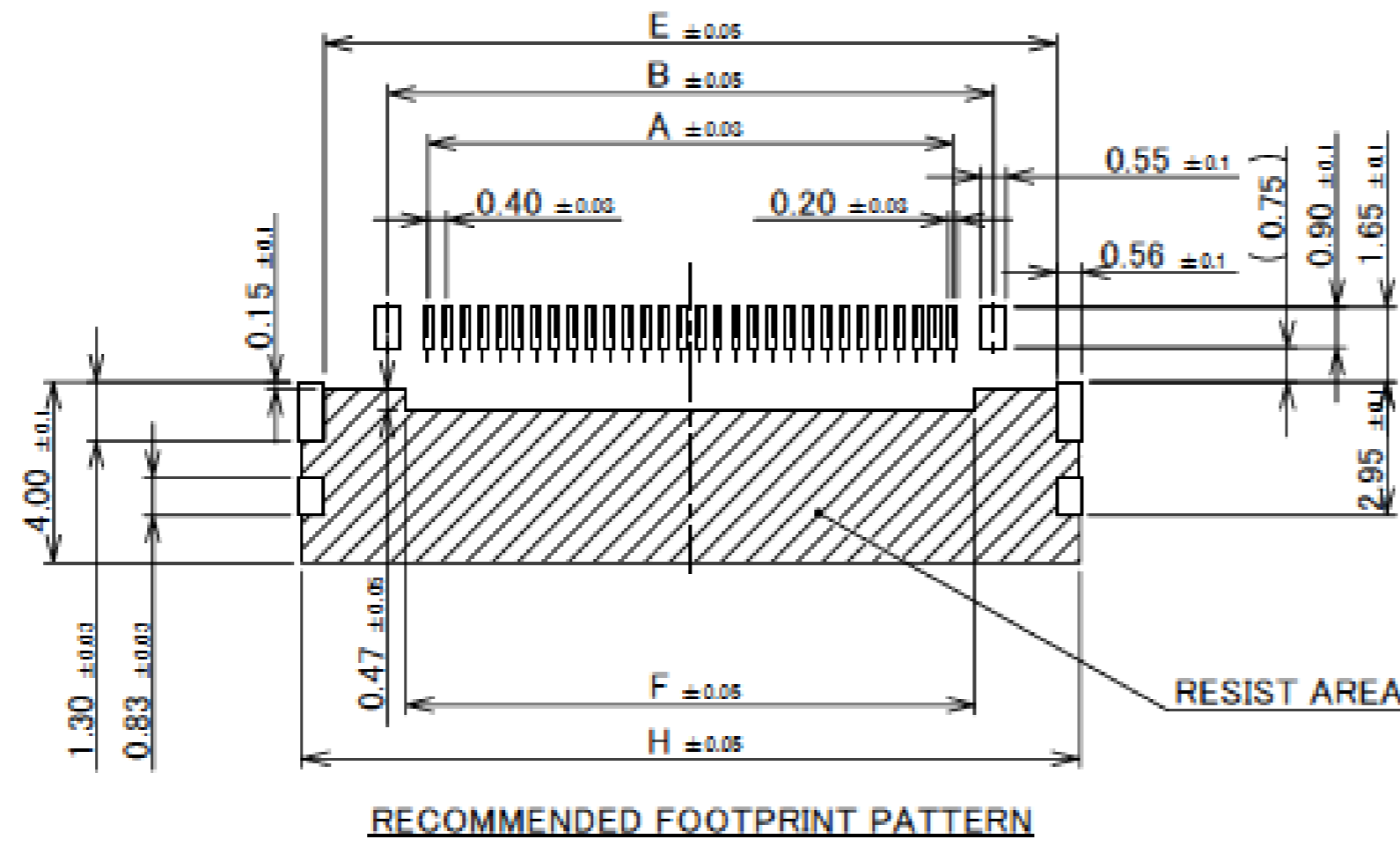


3	SHELL	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.14

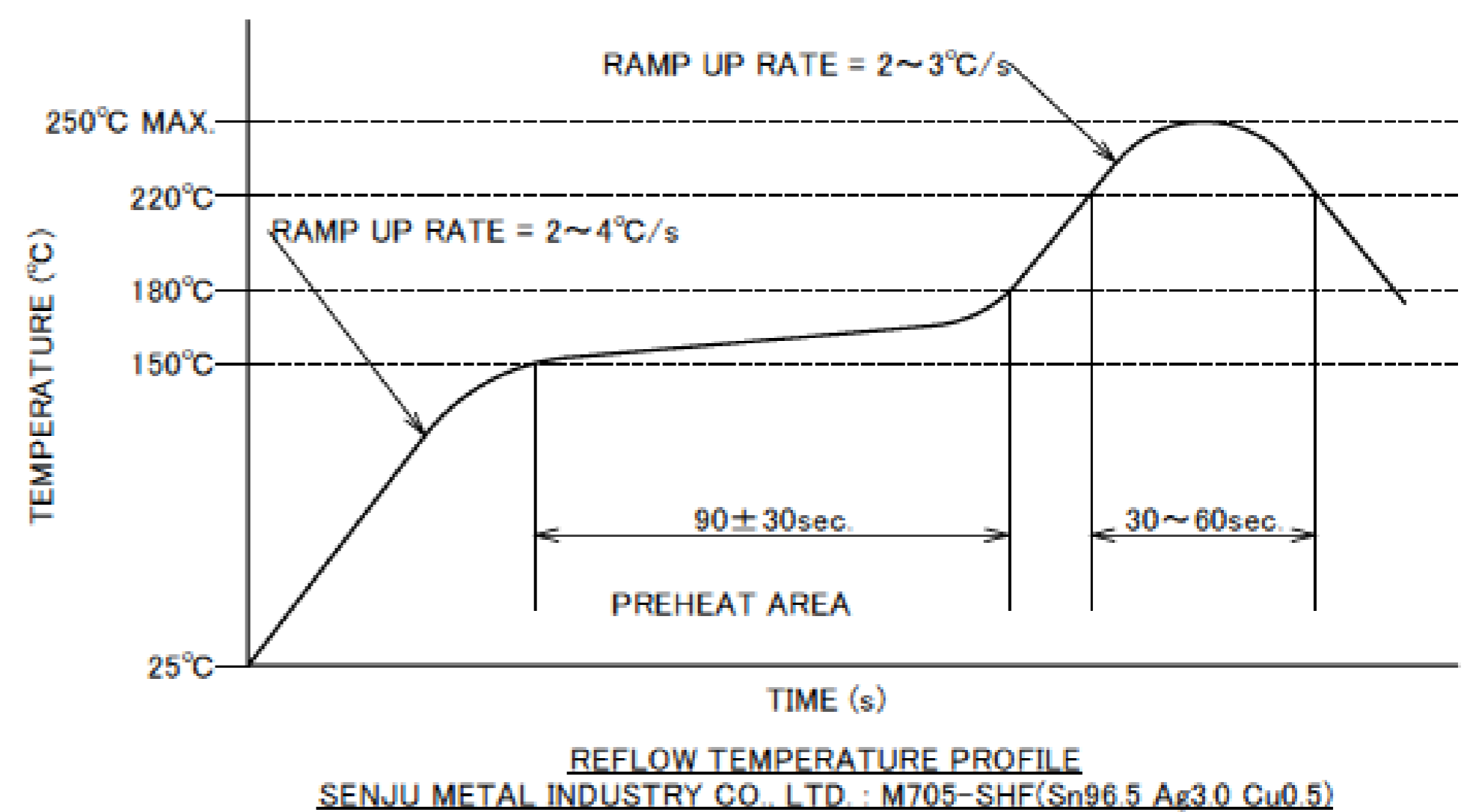
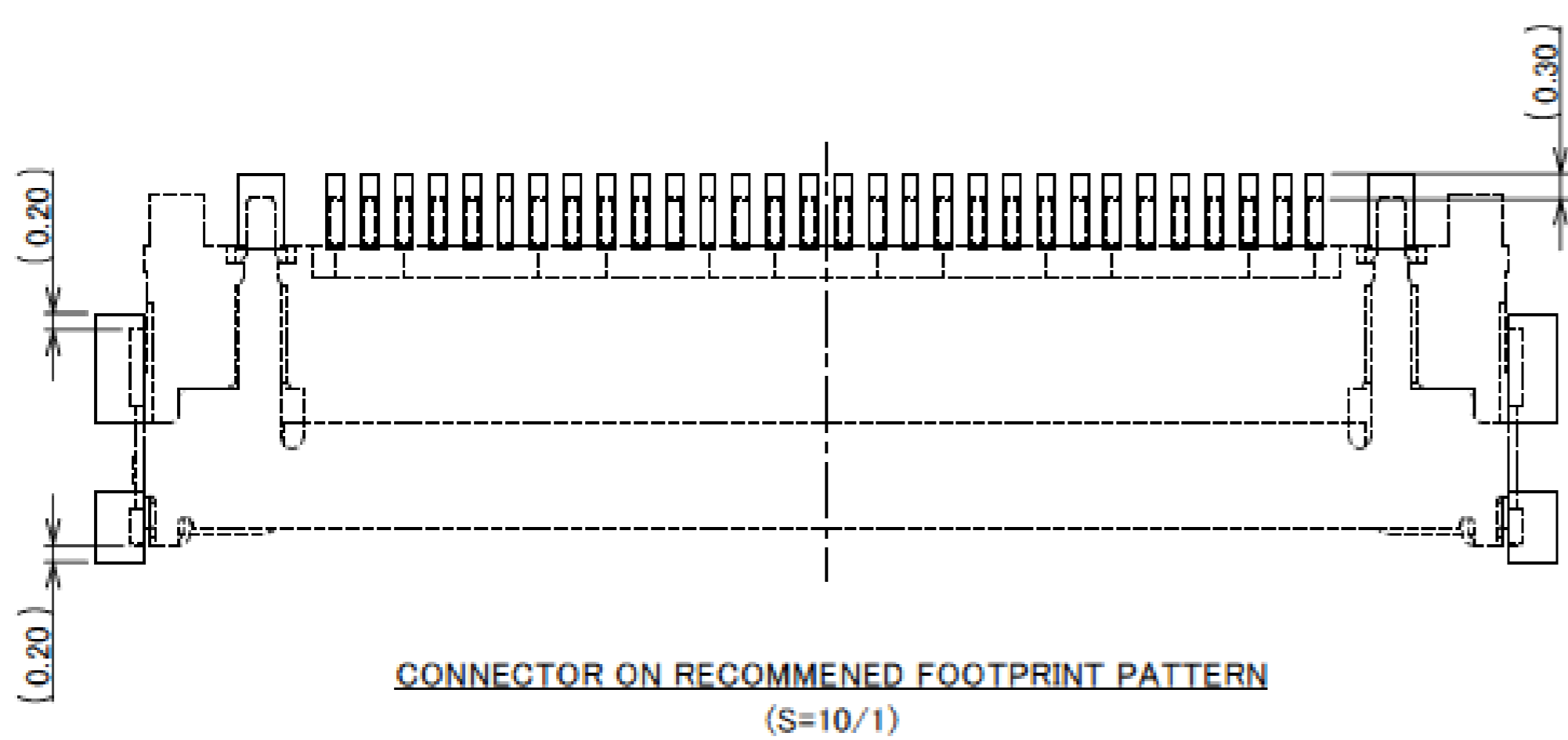
Receptacle Assembly

PART NO.	POS.	A	B	E	F	H	J	K
20474-030E-12	30	11.60	13.40	16.18	12.59	17.20	19.20	12.20
20474-040E-12	40	15.60	17.40	20.18	16.59	21.20	23.20	16.20



- NOTES.
- DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
 - IN CASE OF PLUG WITH LATCH BAR(20472-0**T-10). DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
 - SODLER RESIST MUST BE APPLIED TO THIS AREA.

Rev.14



Receptacle Assembly

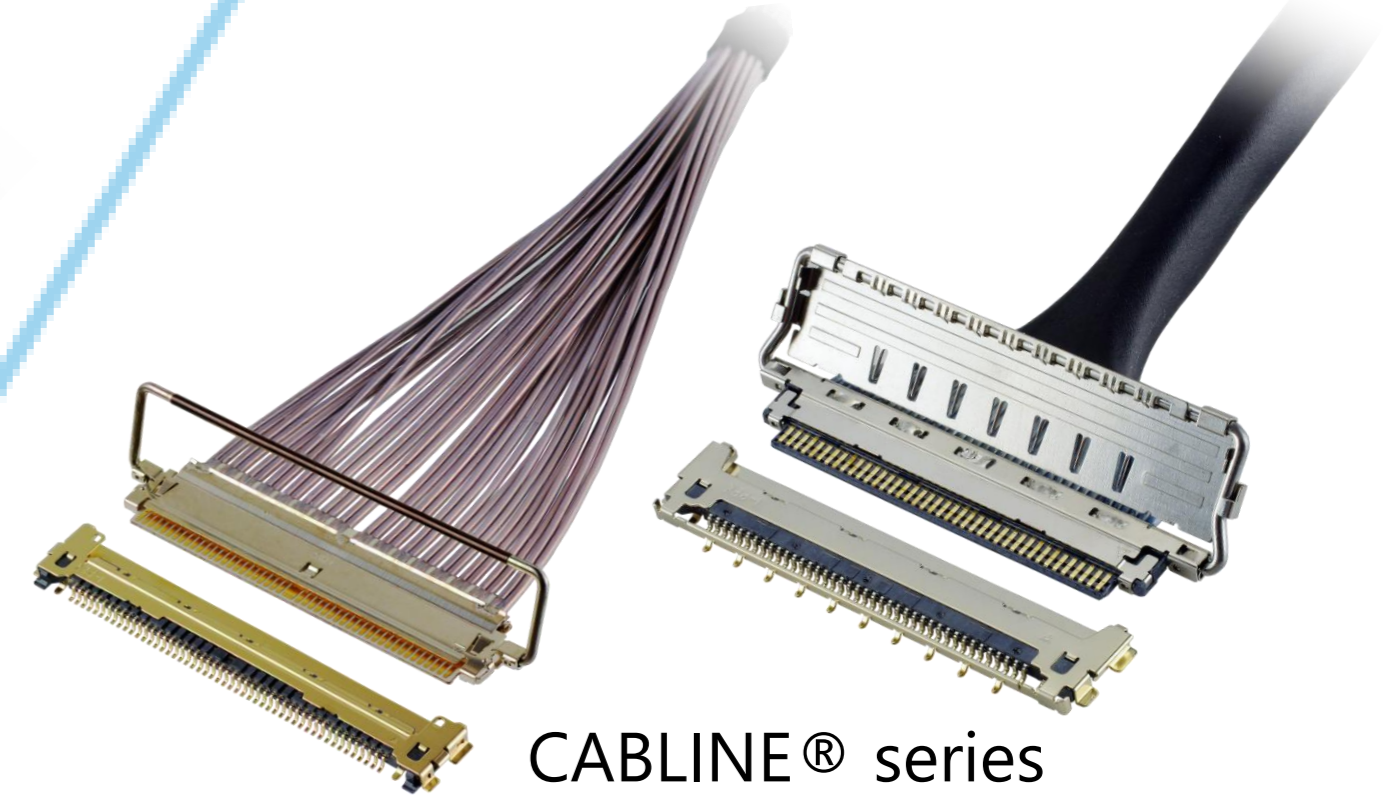
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 40, 42, 44 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN 0.24A AC/DC [AWG#42] PER CONTACT PIN 0.3A AC/DC [AWG#40] PER CONTACT PIN 0.8A AC/DC [AWG#36] PER CONTACT PIN ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 275mohm MAX. (AWG#36)/ AFTER TEST : \triangle 40mohm MAX. 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : \triangle 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 10N MAX. 40P : 12N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 40P : 4.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 40P : 19.60N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1421
TEST REPORT	TR-08030
PACKING STANDARD	300-657
INSTRUCTION MANUAL	HIM-09002
APPEARANCE CRITERIA No.	QLS-A***

Rev.14

Custom Connectors Available

RF Connectors

MHF® series



Micro-Coaxial/Twinaxial Connectors



Wire-to-Board Connectors/Terminals

AP series

ISH® series



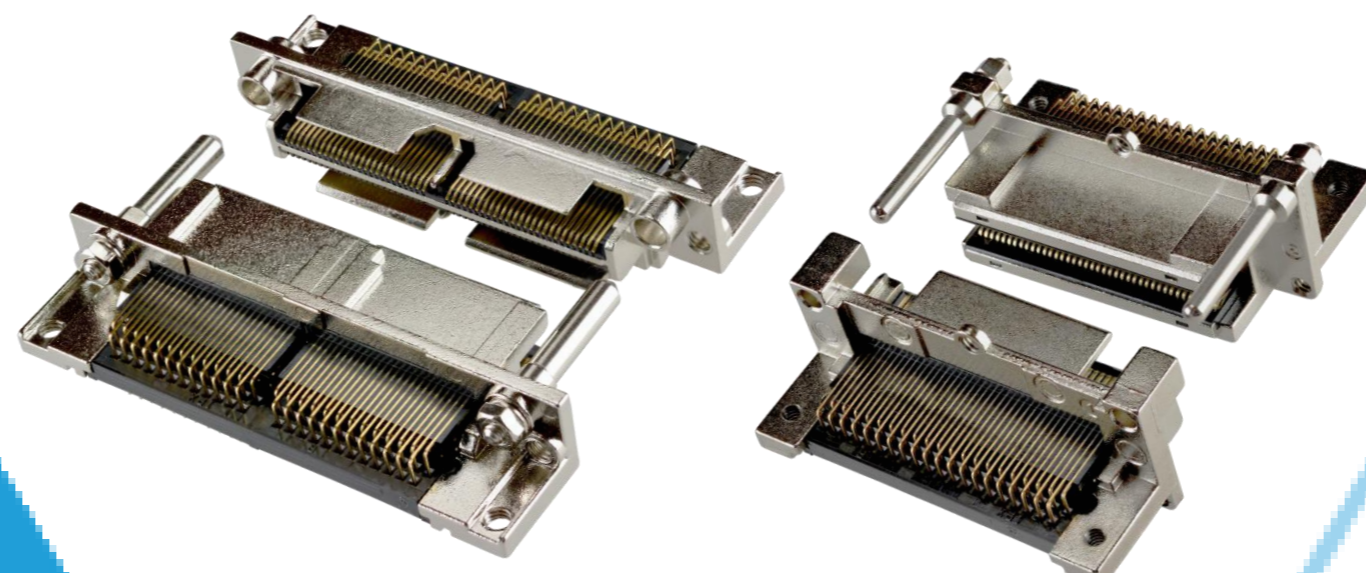
NOVASTACK® series



Board-to-Board Connectors

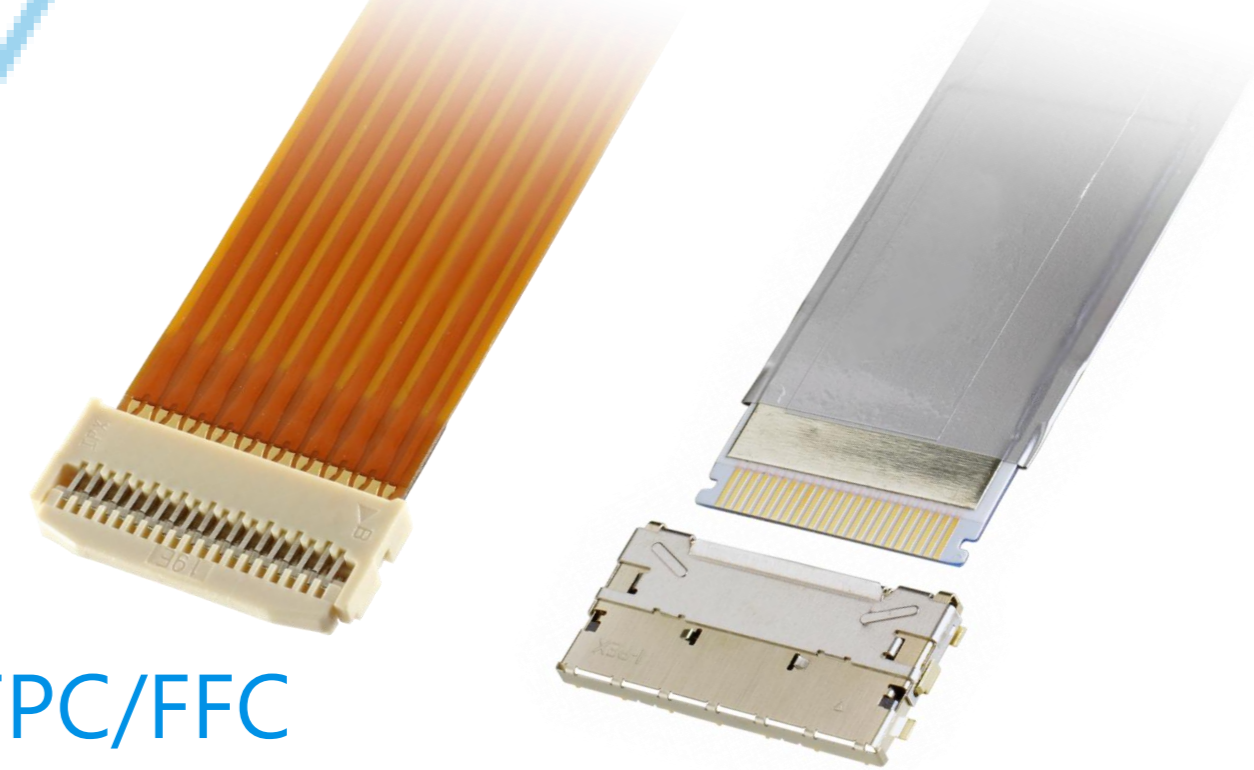


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



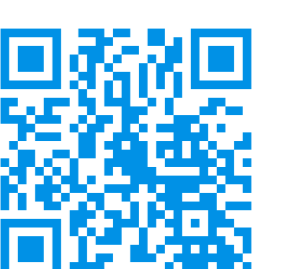
Inquiry



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