

CABLINE® -CBL

适用于高速数字传输（20 Gbps/lane），低嵌合高度(嵌合高度 0.975 mm max.)，机械锁扣，带屏蔽，多点接地设计，0.4 mm间距, 水平插拔款的极细同轴线连接器

Product Specifications:			Applicable Cable Size:	
Mating type	Horizontal		Maximum O.D.	0.4 mm
Board Pitch	0.4 mm		Micro-Coaxial for Signal	45 ohm: AWG 40 or smaller wire 50 ohm: AWG 40 or smaller wire
Wiping Length	0.44 mm		Twinaxial	-
Mated Size	Height	0.975 mm max.	Discrete	AWG 36 or smaller wire
	Width	6.44 + (0.4 x pin count) mm	Applicable Standards (Reference Only): DP UHBR20 (20 Gbps/ Lane), V-by-One® US (16 Gbps/Lane), HDMI 2.1 (12 Gbps/ Lane)	
	Depth	5.44 mm		
Pin Counts	Range	Up to 40		
	Available	30, 40		

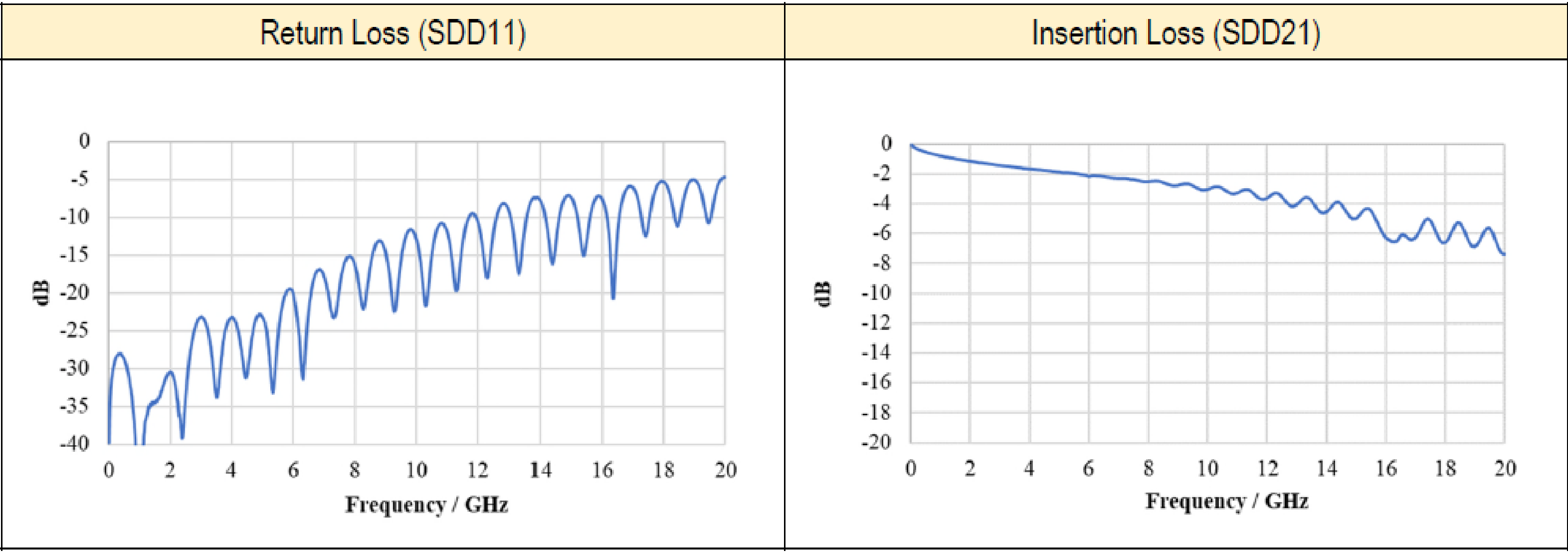
*如您需要了解未列出或不在范围内的Pin数，请咨询我们。
*较低高度 0.4 mm 间距连接器 CABLINE®-CAL (组合高度: 最高0.8 mm) 也可提供。



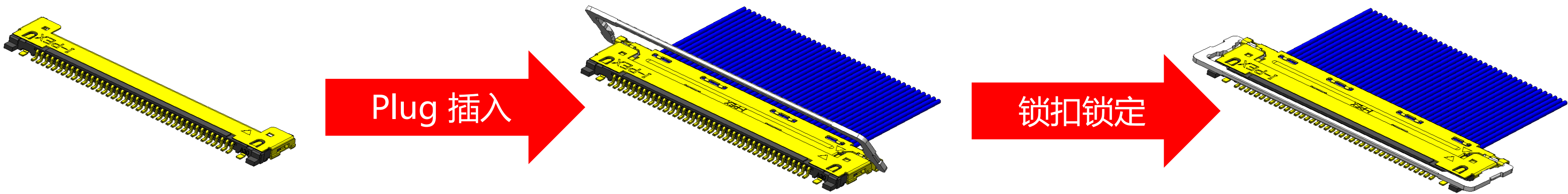
► 高速率传输, 20 Gbps/lane应用的理想之选

Measurement results

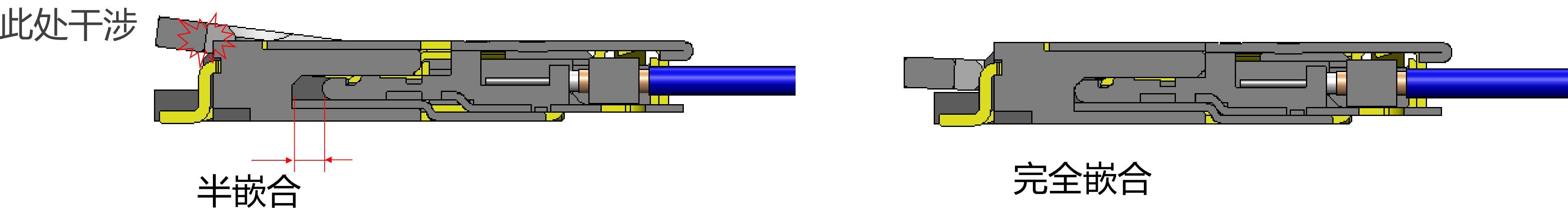
Connector: CABLINE-CBL 40 pin
Cable: Micro-coaxial cable
AWG 40, 45ohm , Length : 100 mm
Pin Assignment: GSSGSSG



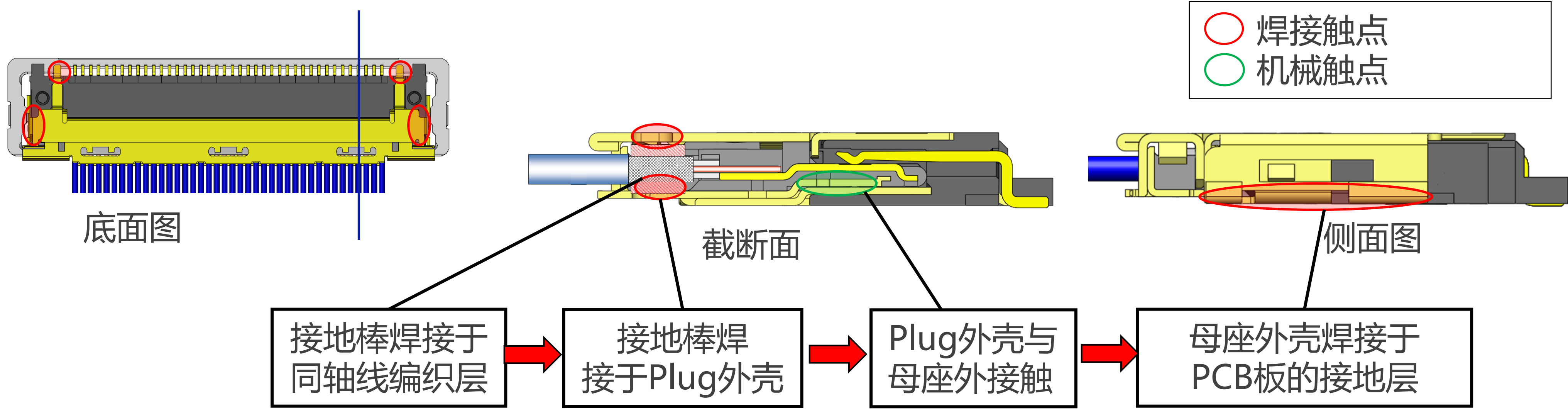
► 可选机械锁扣，可以防止连接器不完全插入或者连接器的脱落



只有当 Plug 完全插入母座，机械锁扣才能顺利锁上。



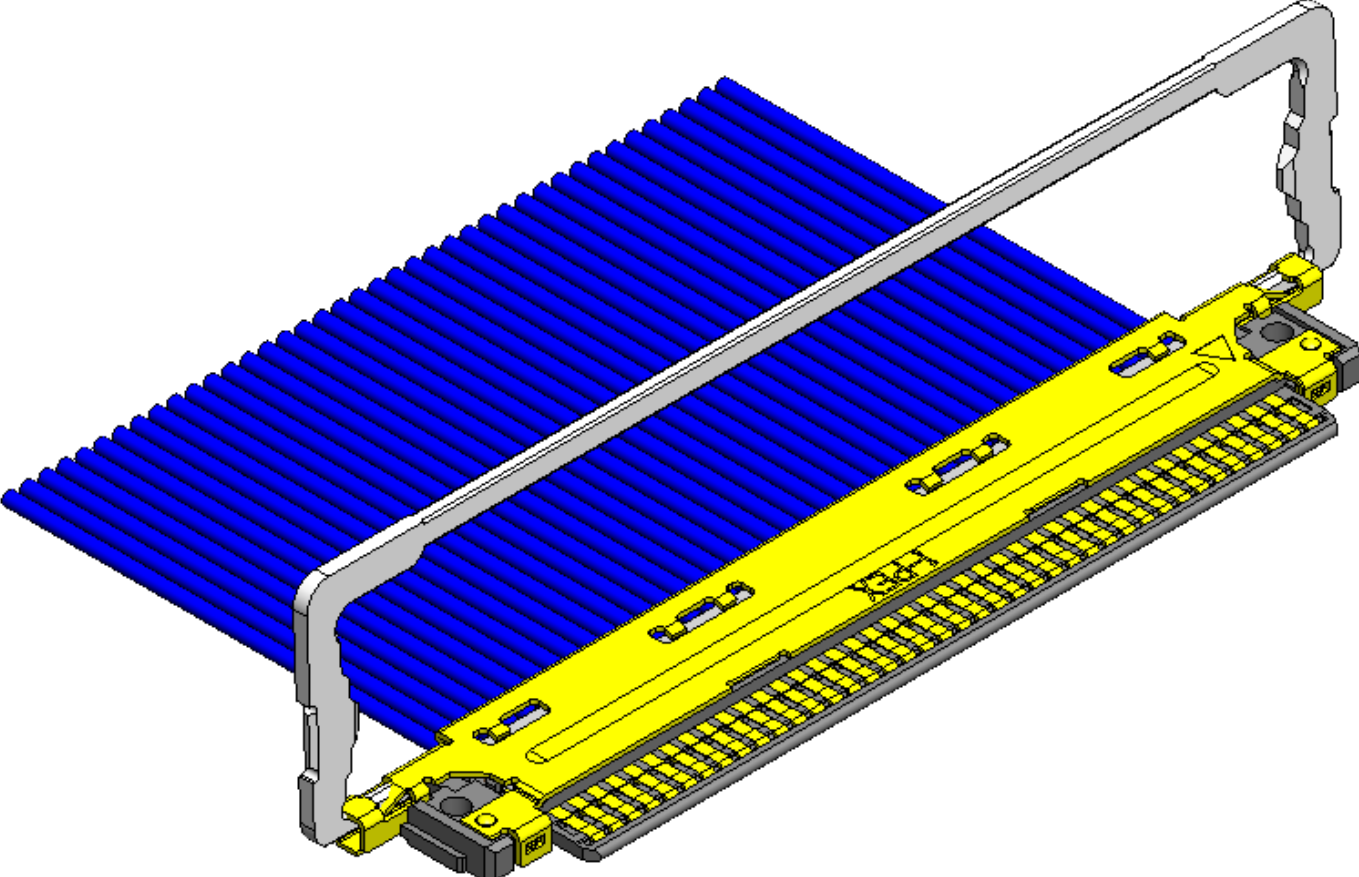
► 多点接地设计具有良好的抗EMI 性能



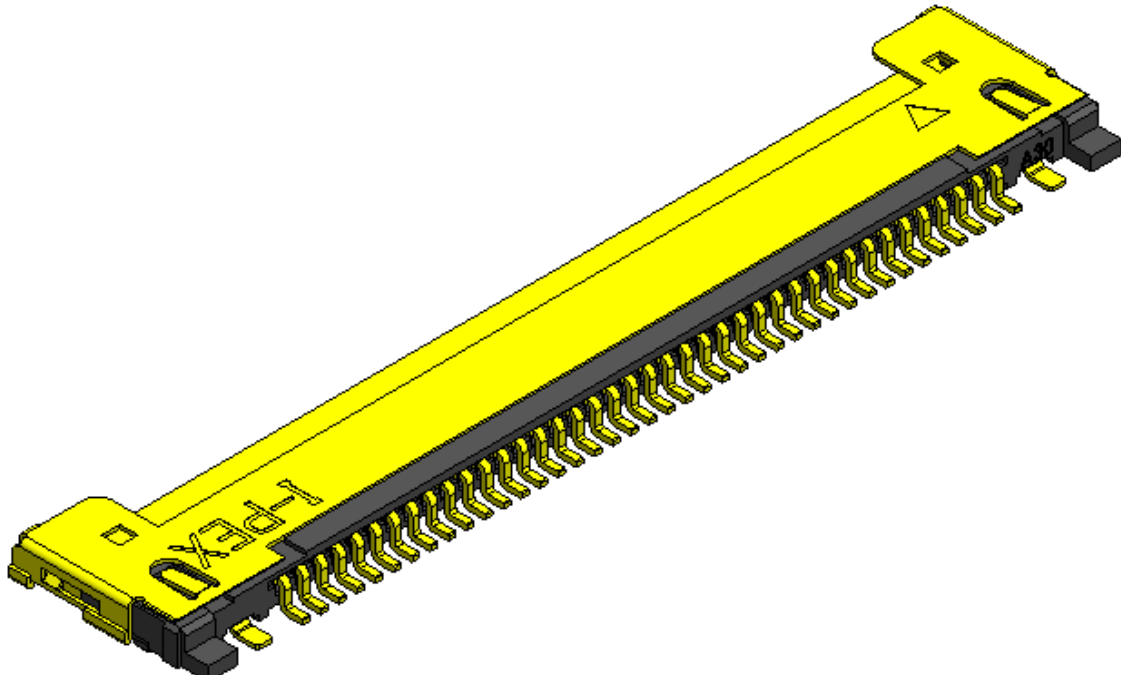
Component Parts Details

Component Parts

Connector parts

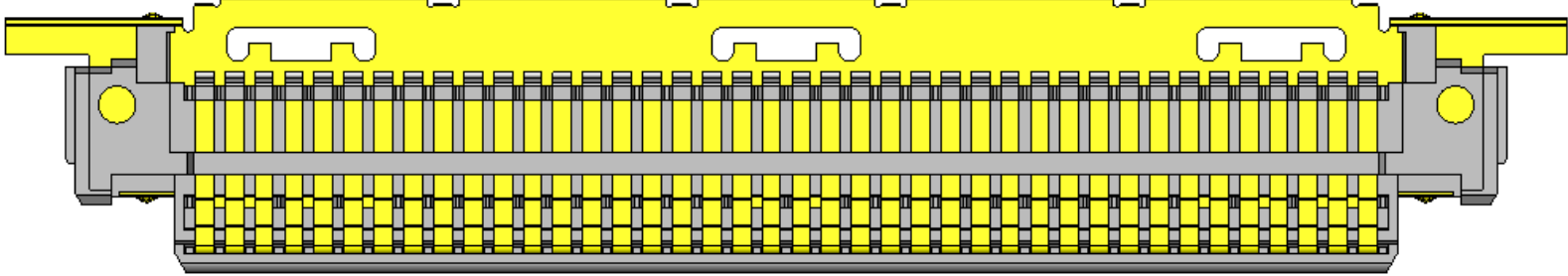


PLUG

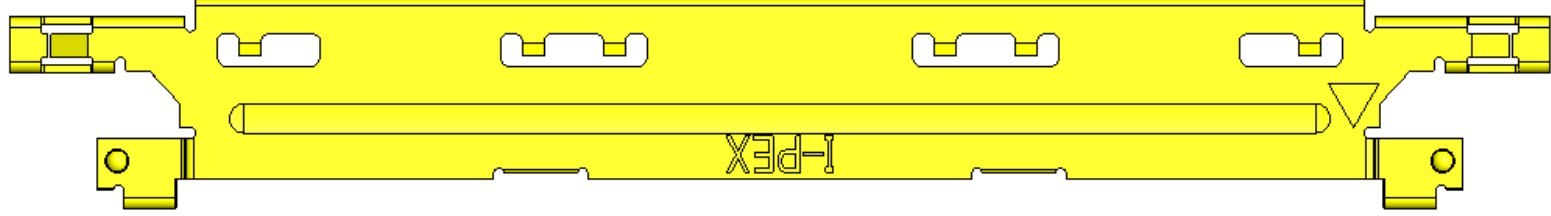


RECEPTACLE

Plug parts



PLUG HOUSING ASSEMBLY



PLUG SHELL-A



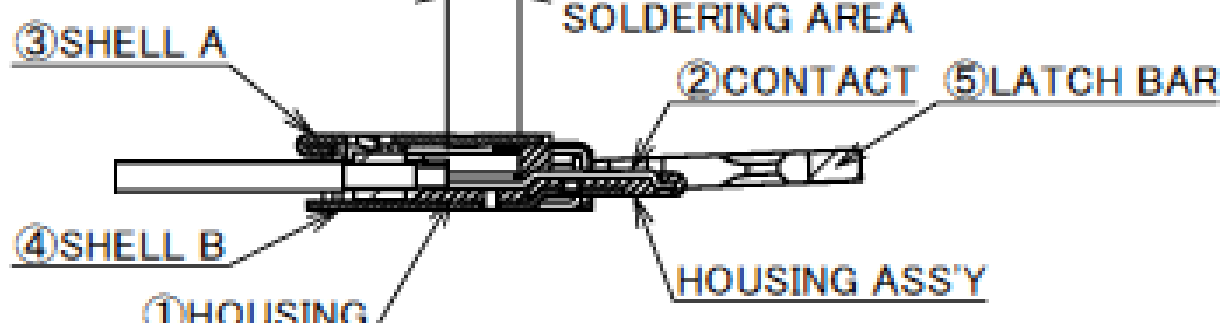
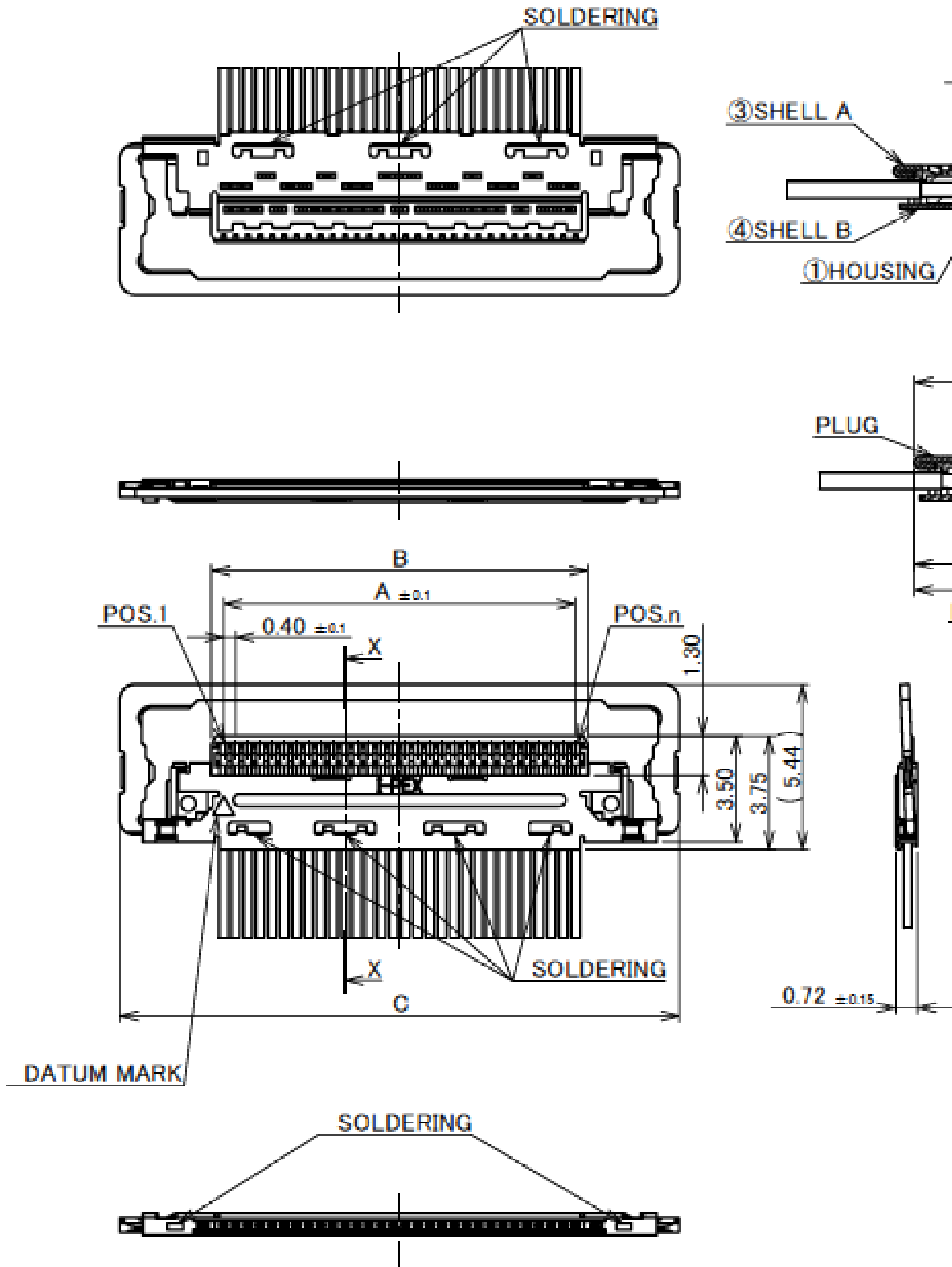
PLUG LATCH BAR

Plug for Cable Assembly

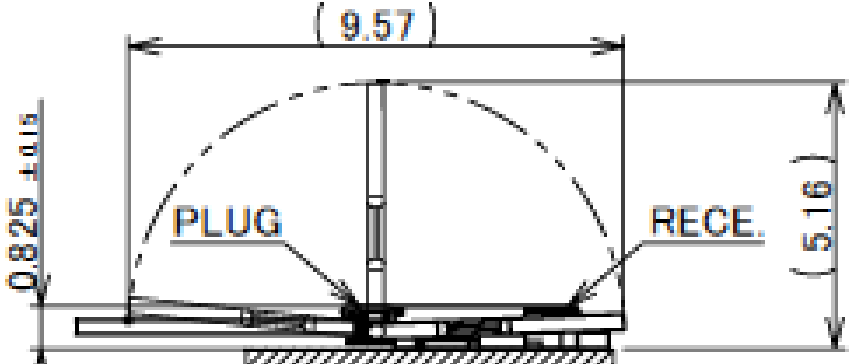
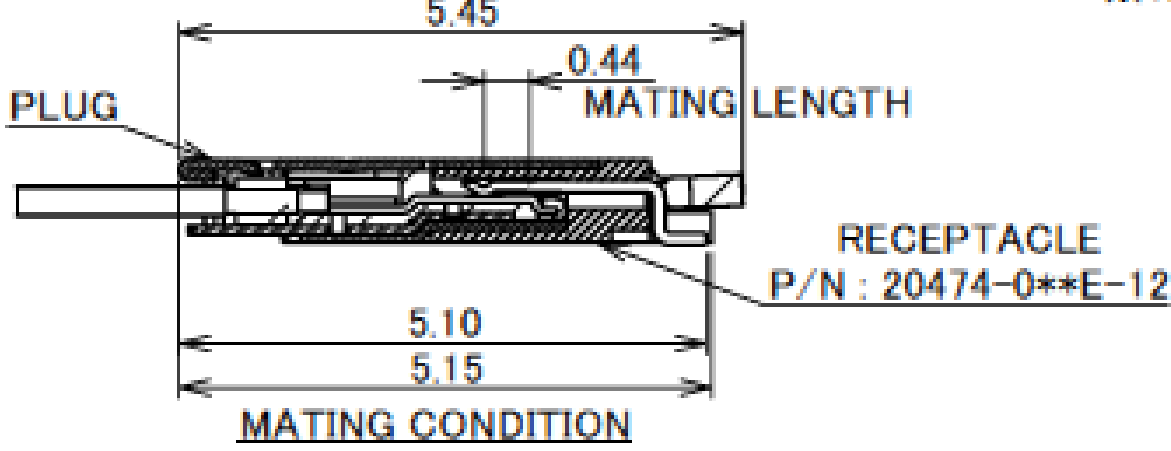
Recommended P/N		20472-0**T-10			
PART NO.	POS.	A	B	C	D
20472-030T-10	30	11.60	12.40	18.44	13.00
20472-040T-10	40	15.60	16.40	22.44	17.00

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

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

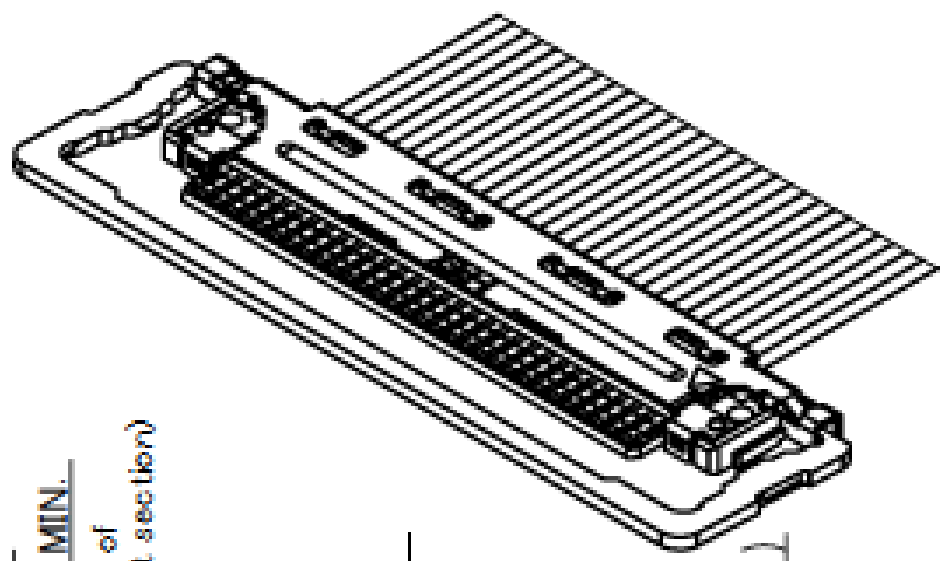


SECT. X-X
(S=10/1)



LATCH MOVEMENTS

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

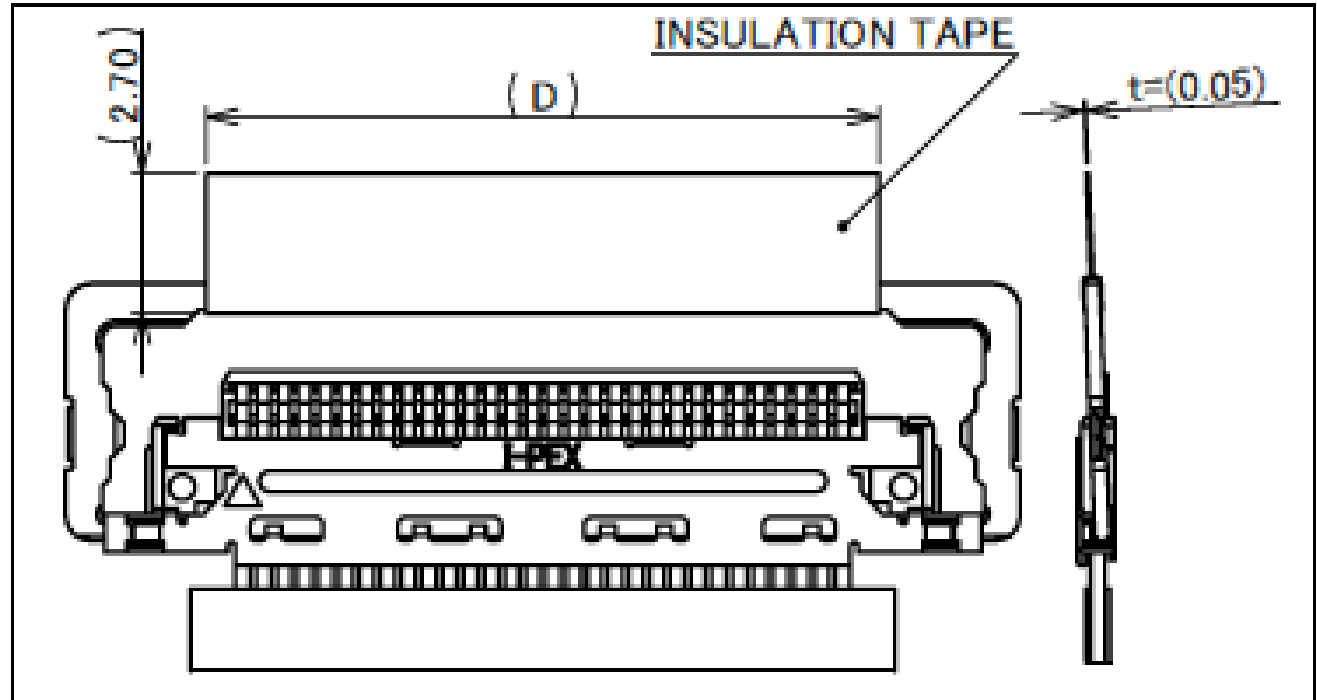


Halogen Free

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.



INSULATION TAPE RECOMMENDED DIMENSIONS

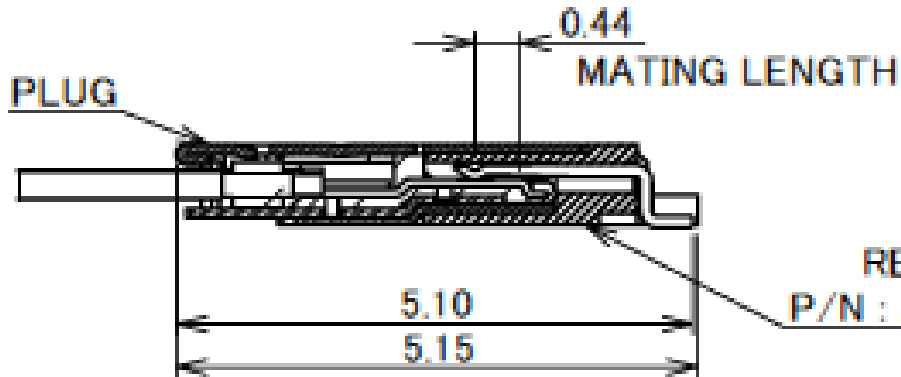
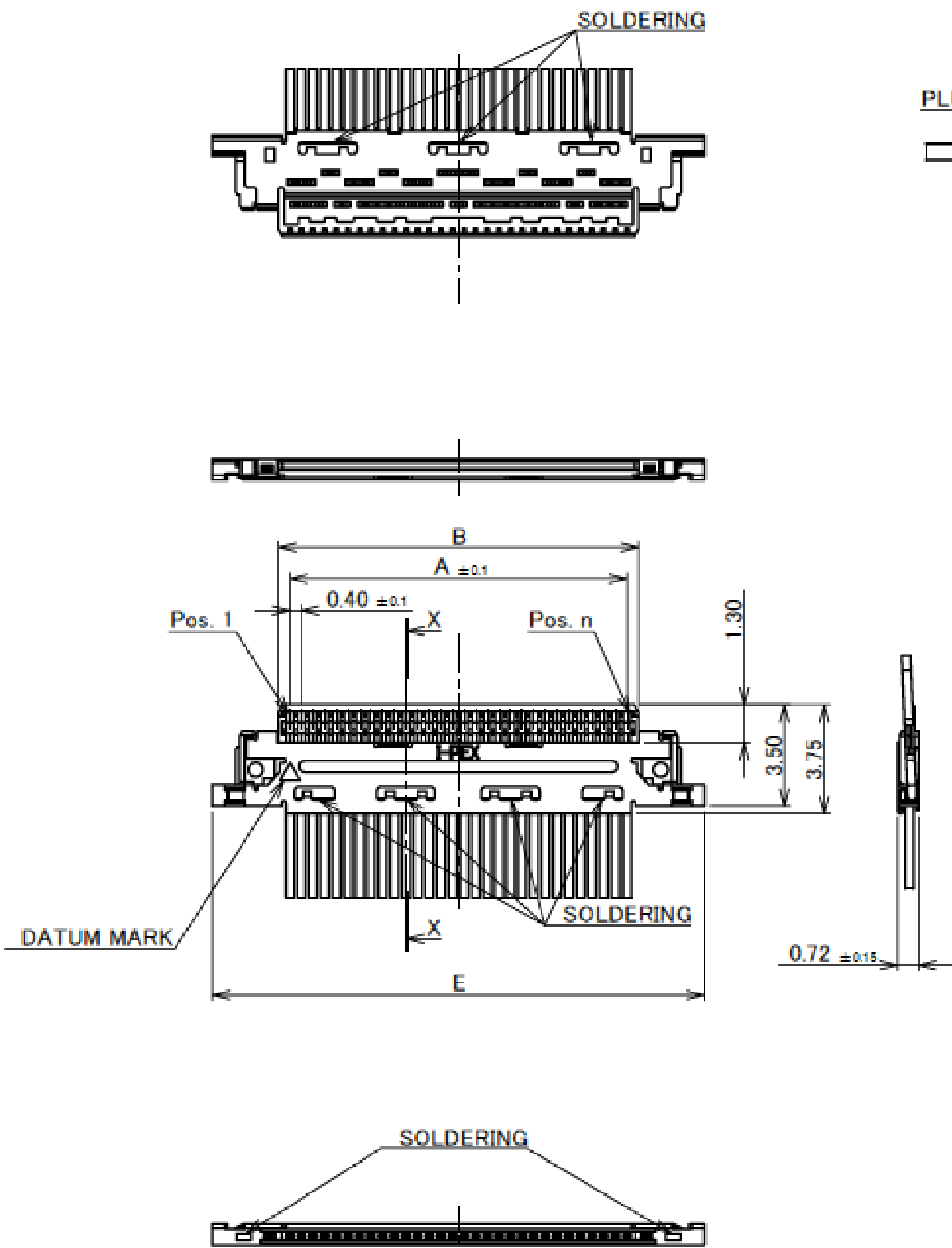
WITH LATCH BAR

Rev.15

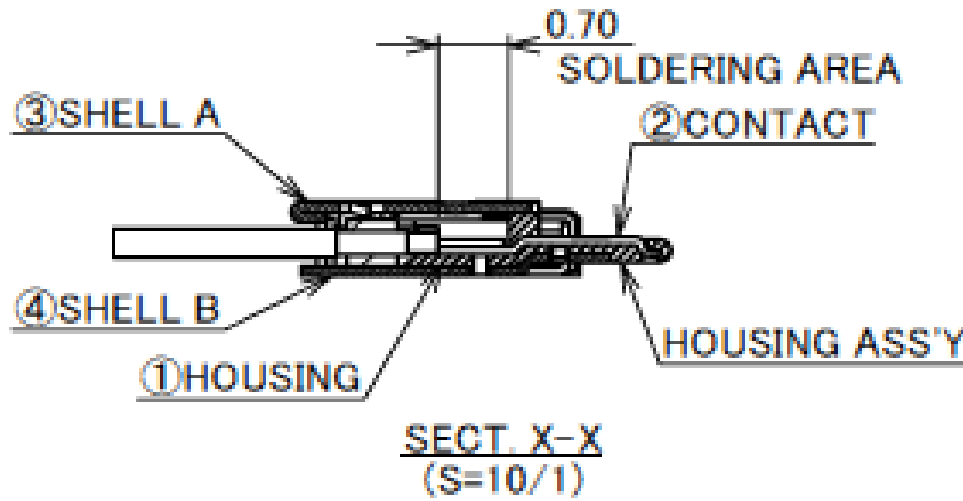
Recommended P/N		20472-0**T-10			
PART NO.	POS.	A	B	E	
20472-130T-10	30	11.60	12.40	16.94	
20472-140T-10	40	15.60	16.40	20.94	

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

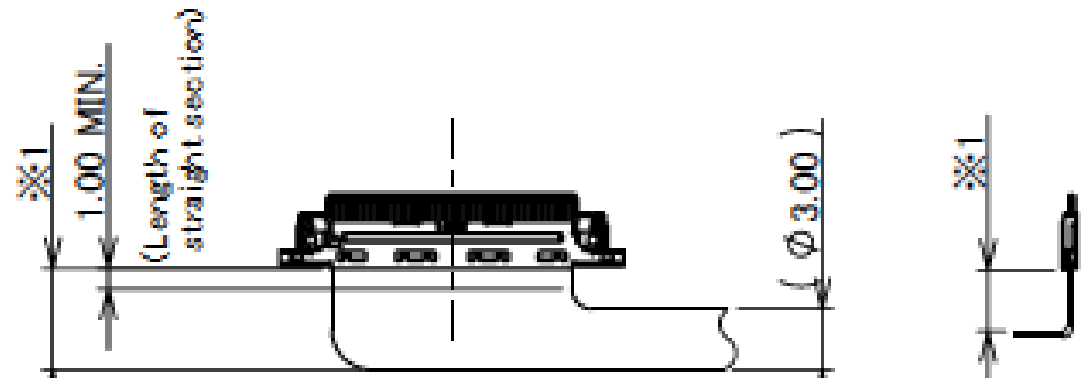
POS.
0: WITH LATCH BAR
1: WITHOUT LATCH BAR



MATING CONDITION

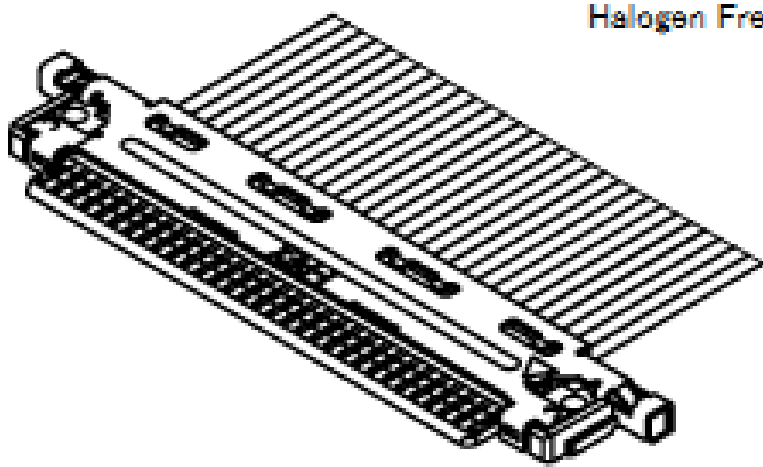


SECT. X-X
(S=10/1)



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.



Halogen Free

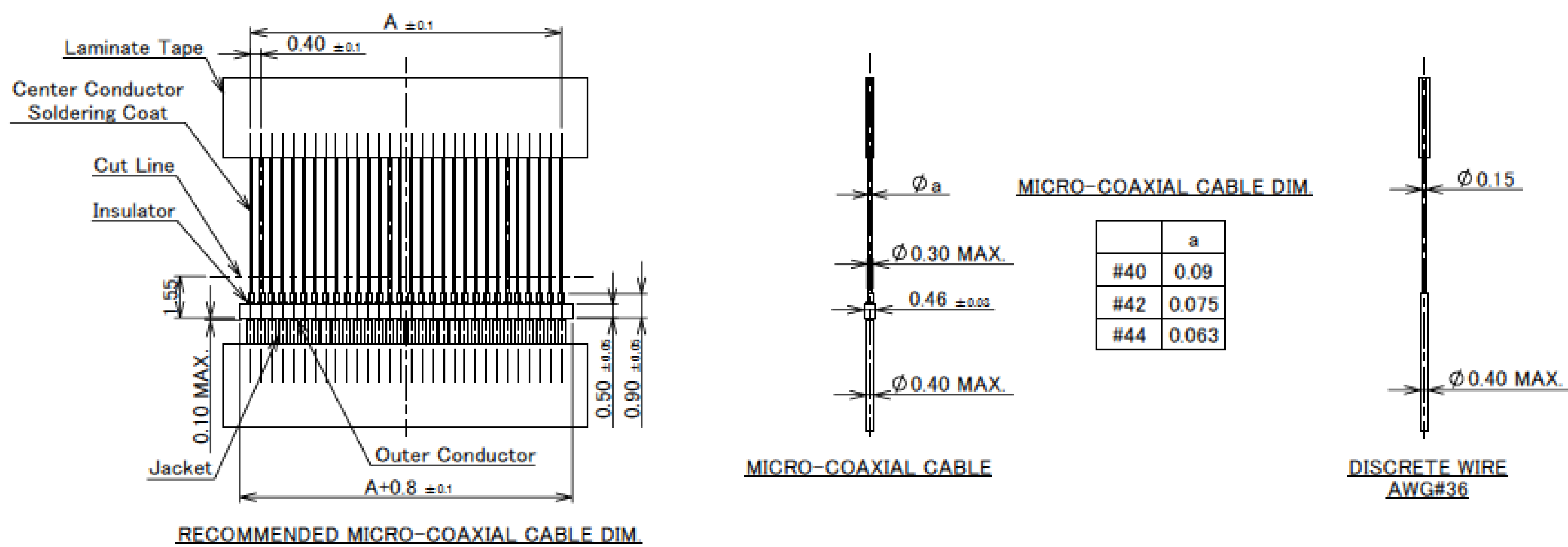
RoHS Compliant

WITHOUT LATCH BAR

Rev.15

Plug for Cable Assembly

PART NO.	POS.	A
20472-#30T-10	30	11.60
20472-#40T-10	40	15.60



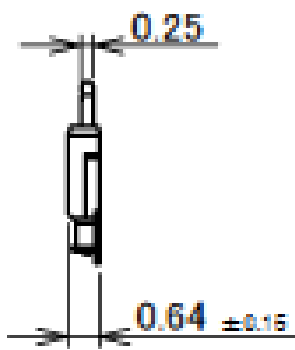
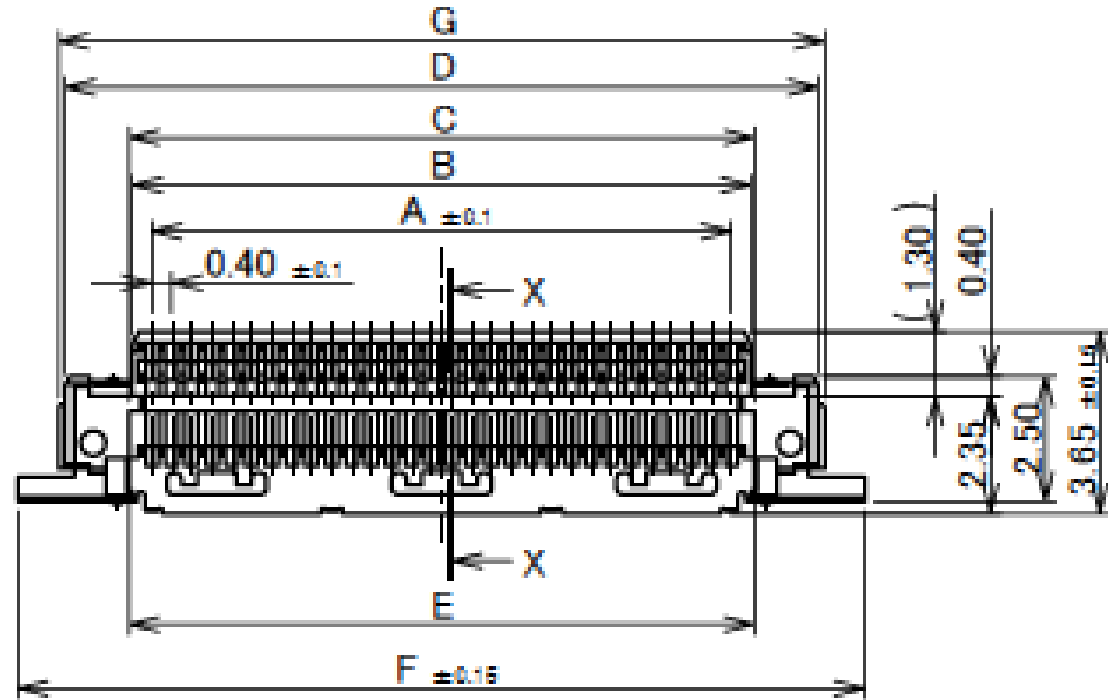
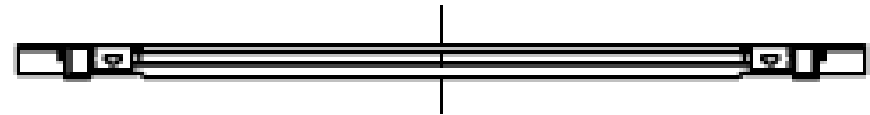
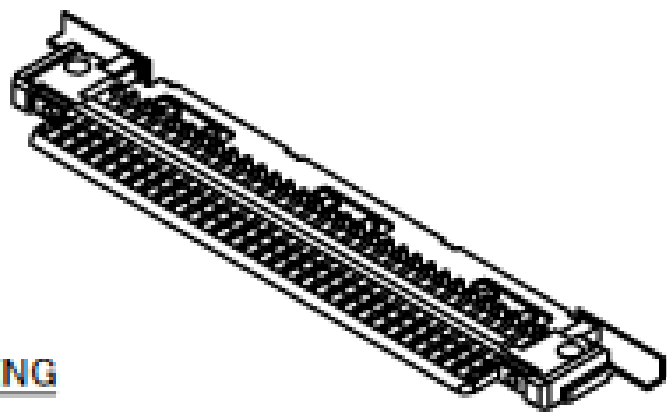
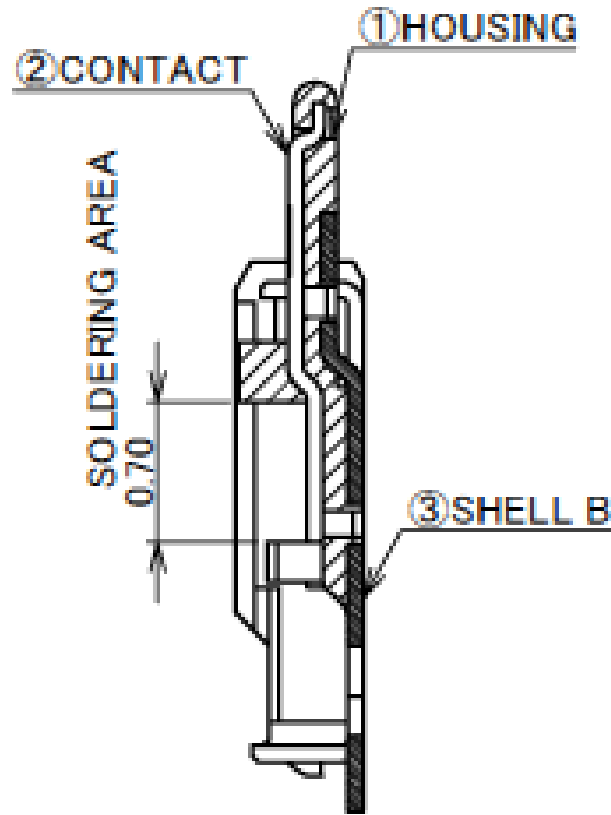
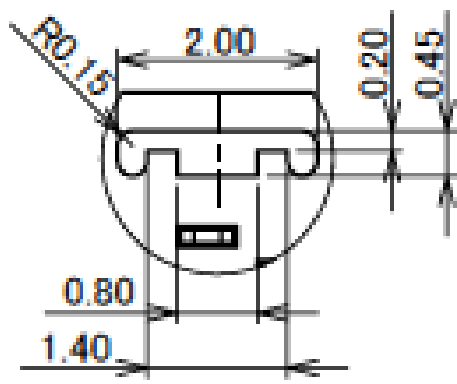
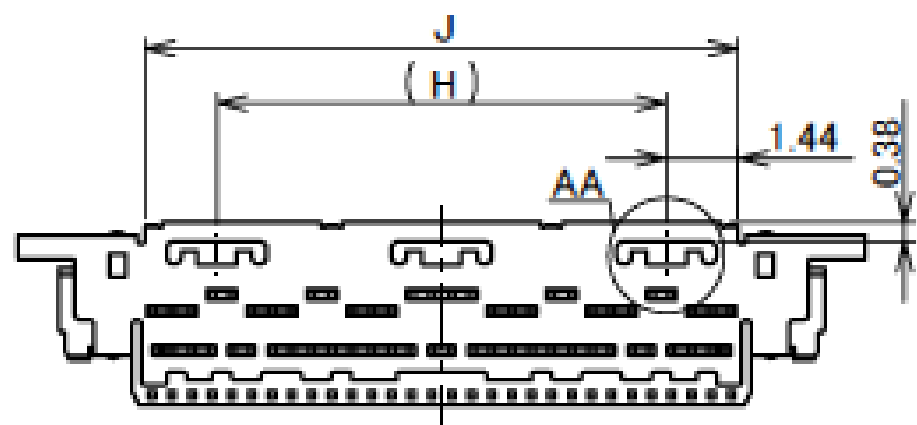
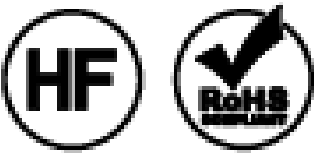
Rev.15

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℃~+85℃)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 275mohm MAX. (AWG#36)/ AFTER TEST : ≦40mohm MAX. 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ≦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.
PRODUCT SPECIFICATION	PRS-1421
TEST REPORT	TR-08030
INSTRUCTION MANUAL	HIM-09002
ASSEMBLY MANUAL	ASM-09002
APPEARANCE CRITERIA No.	QLS-A***

Rev.15

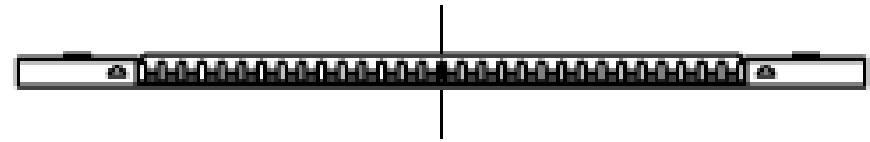
Plug Housing Assembly

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	



NOTES
1. 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

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

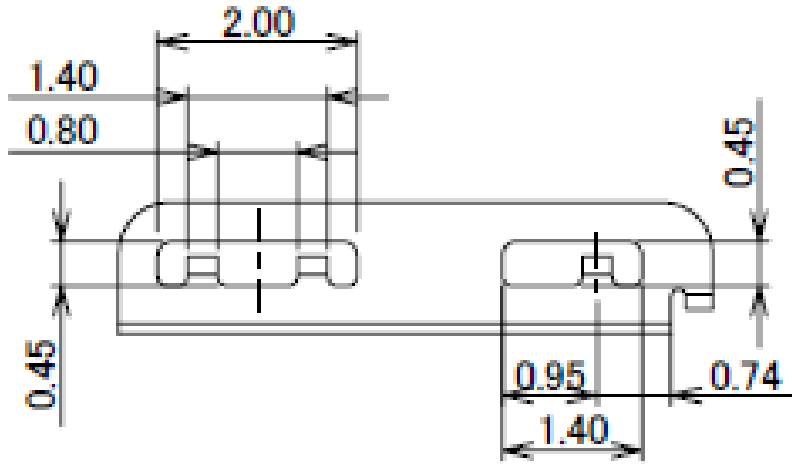
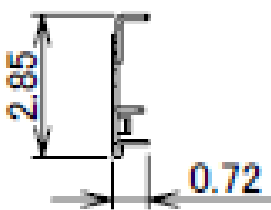
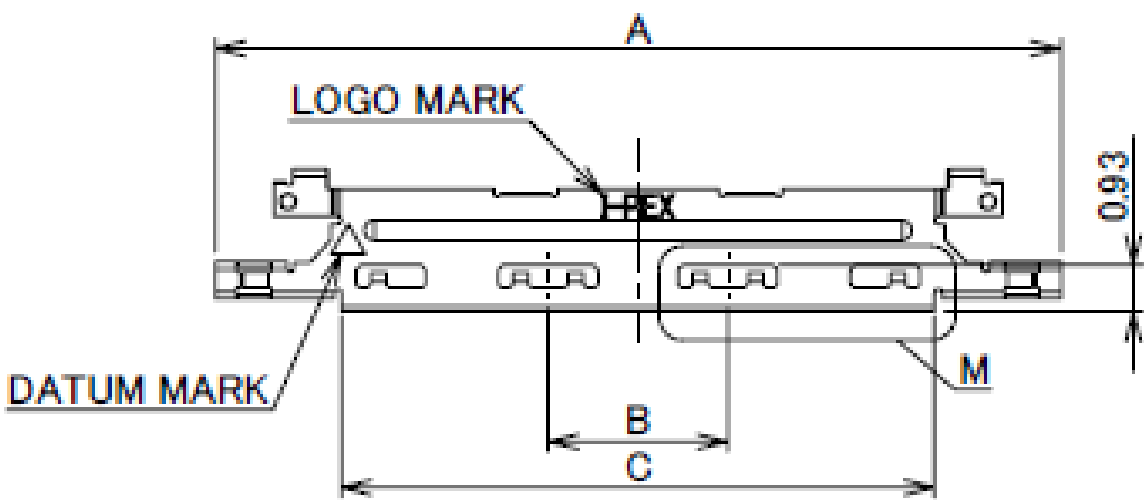
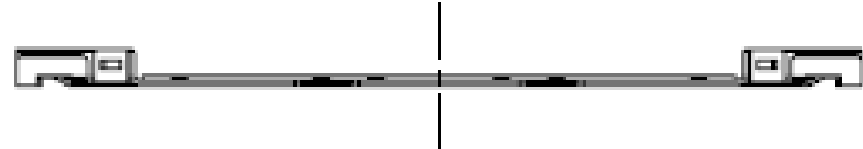
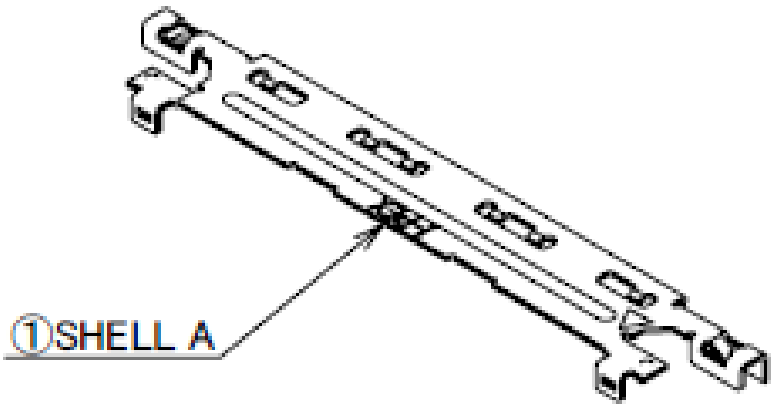
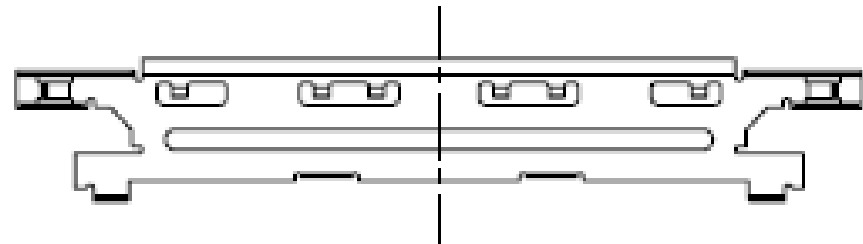
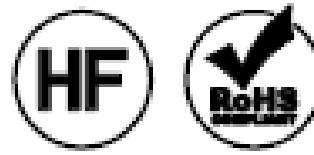


Rev.6

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.



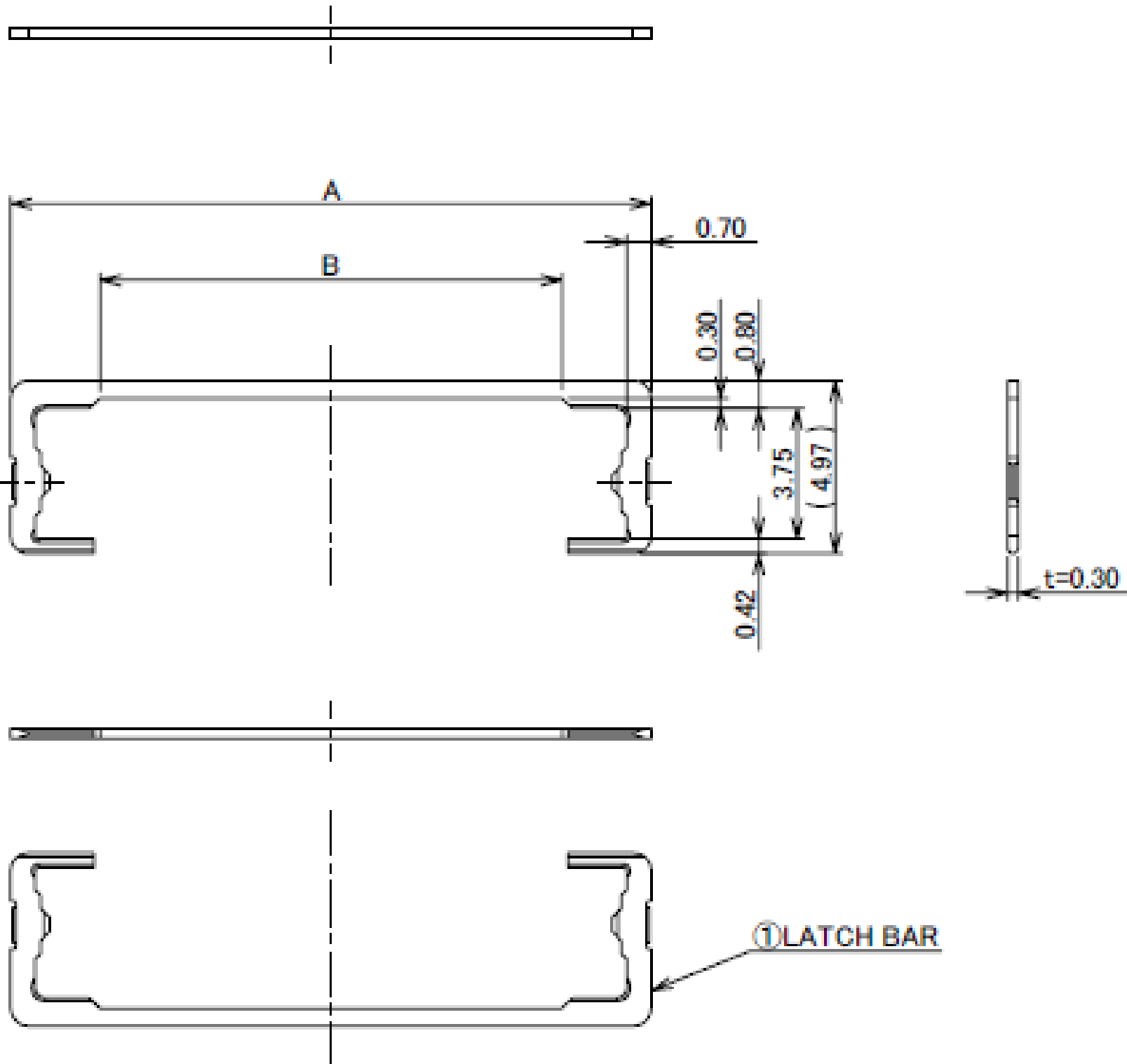
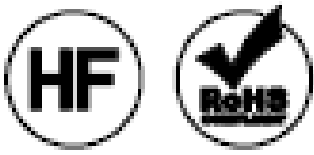
1	SHELL A	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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.

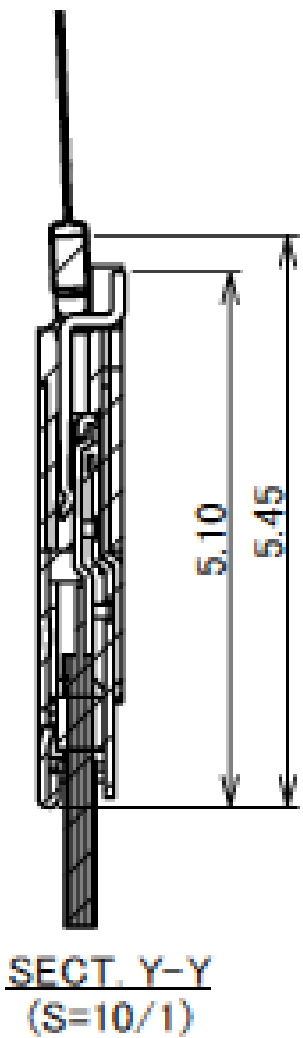
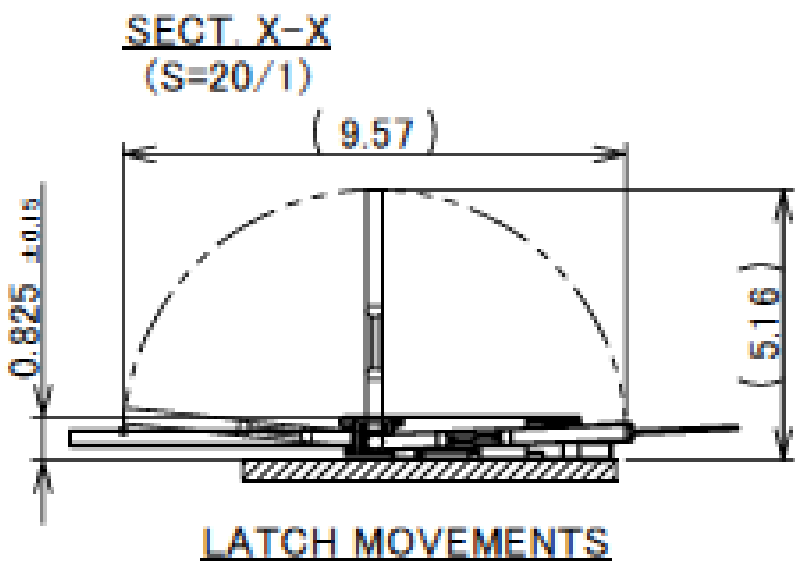
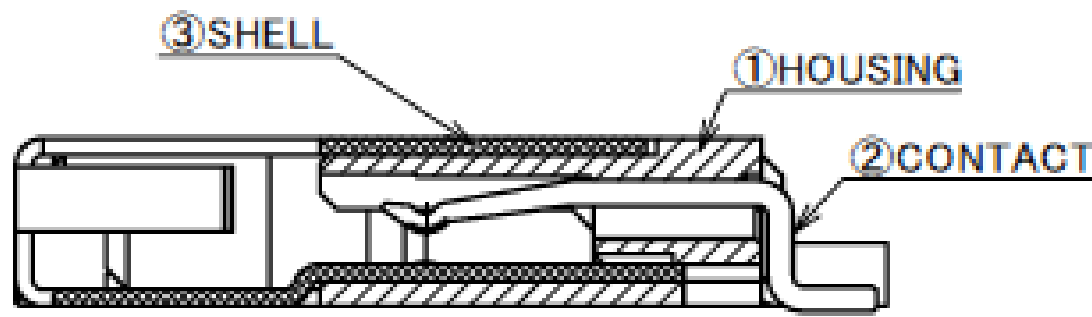
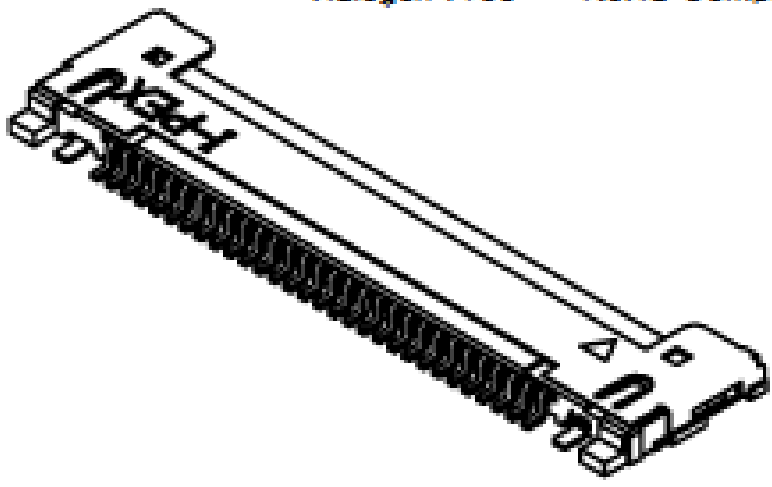
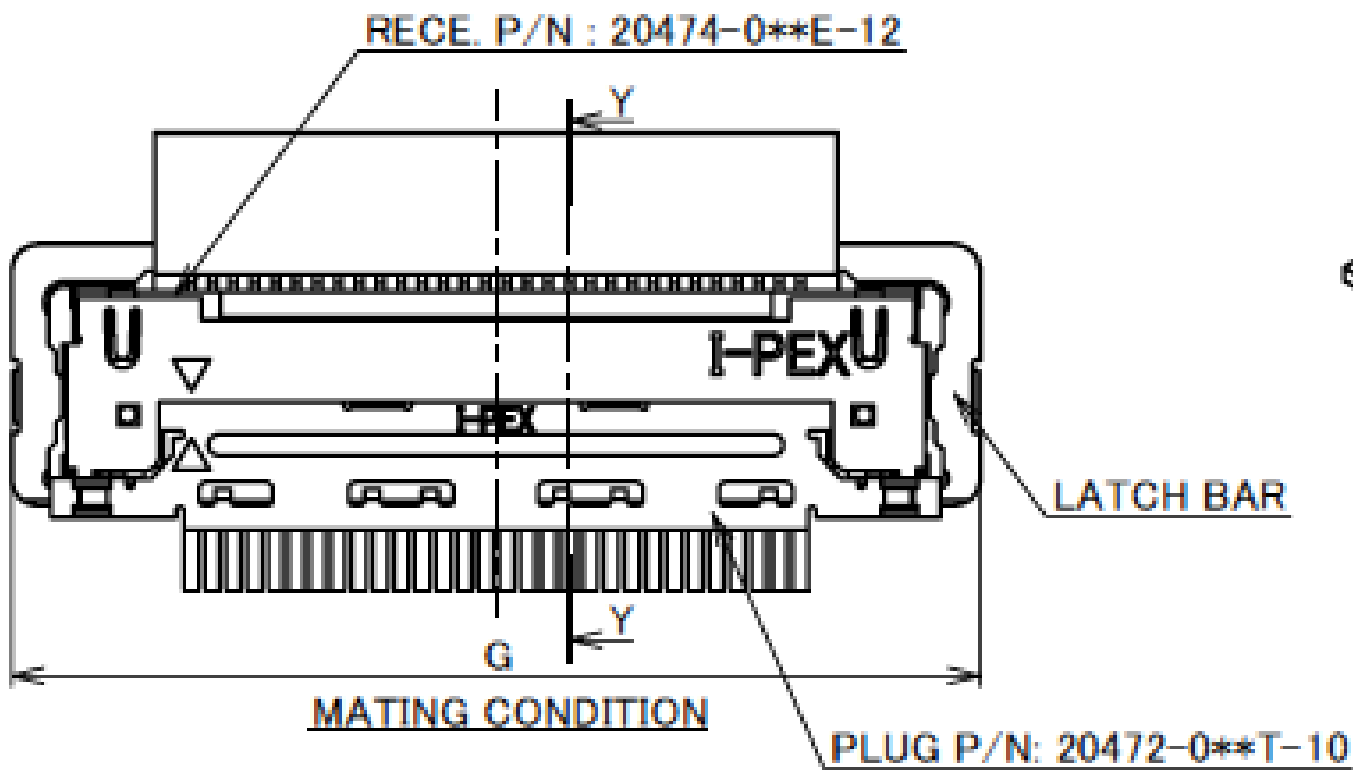
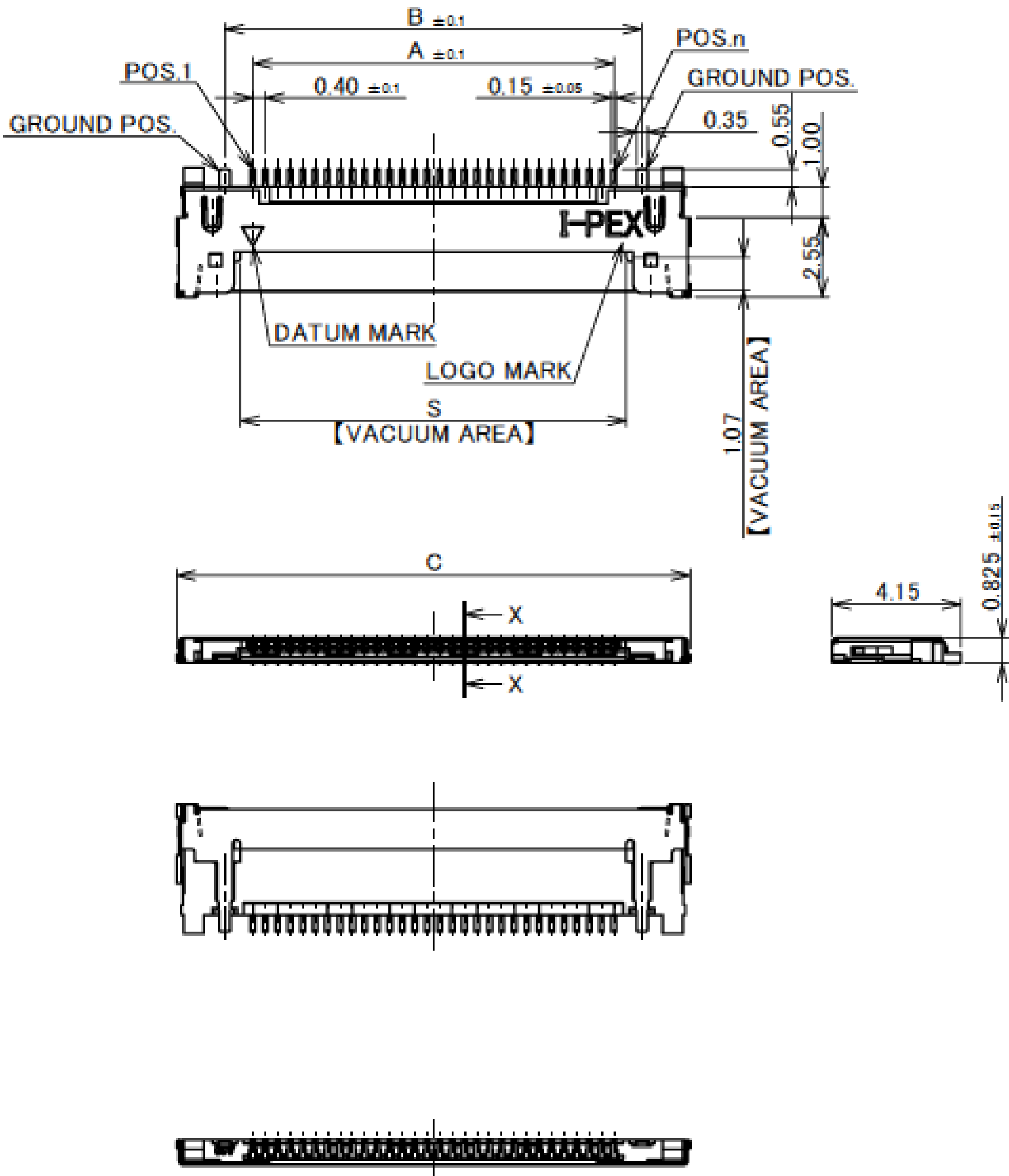
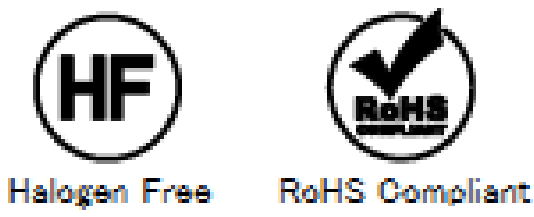


1	LATCH BAR	SUS	-
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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

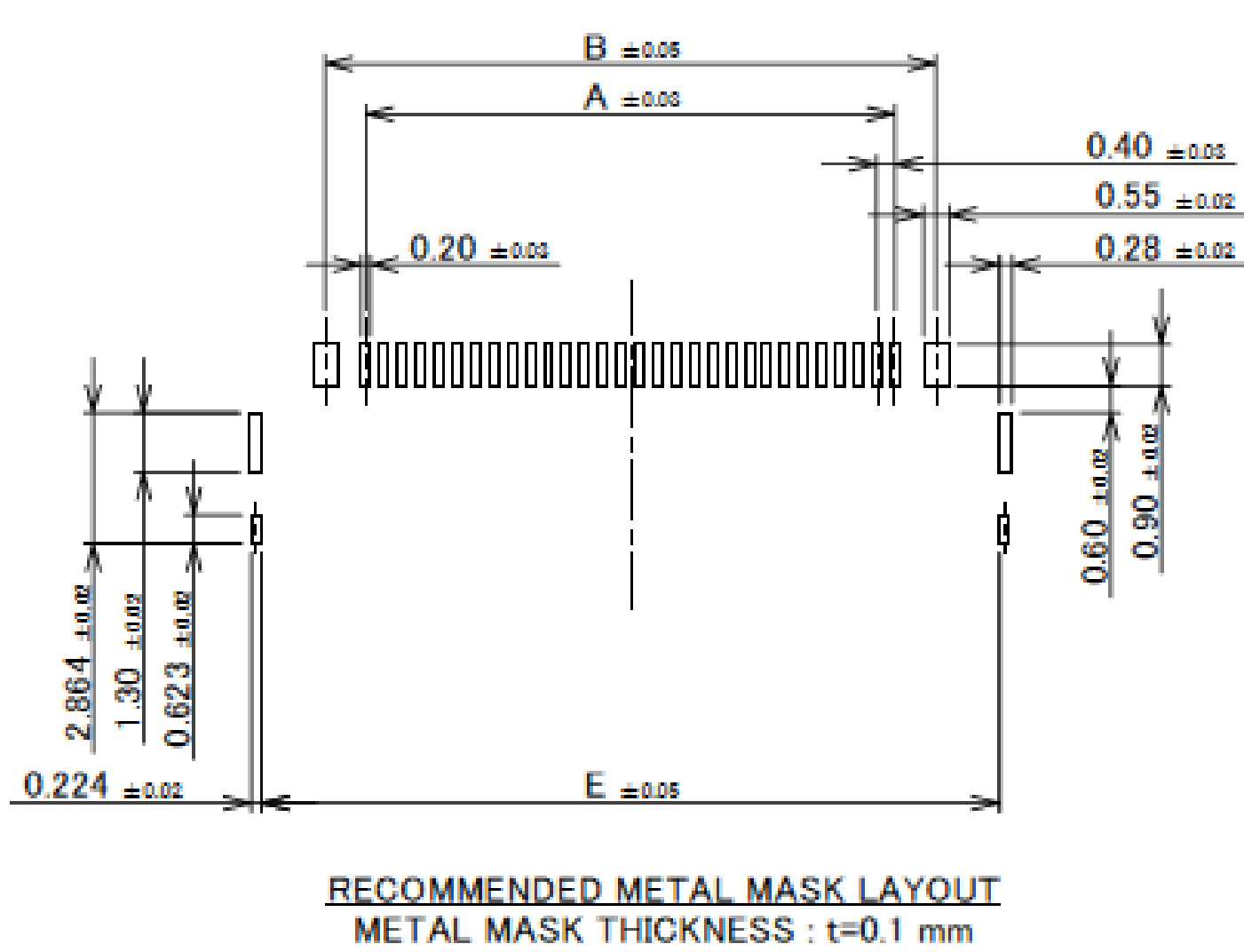
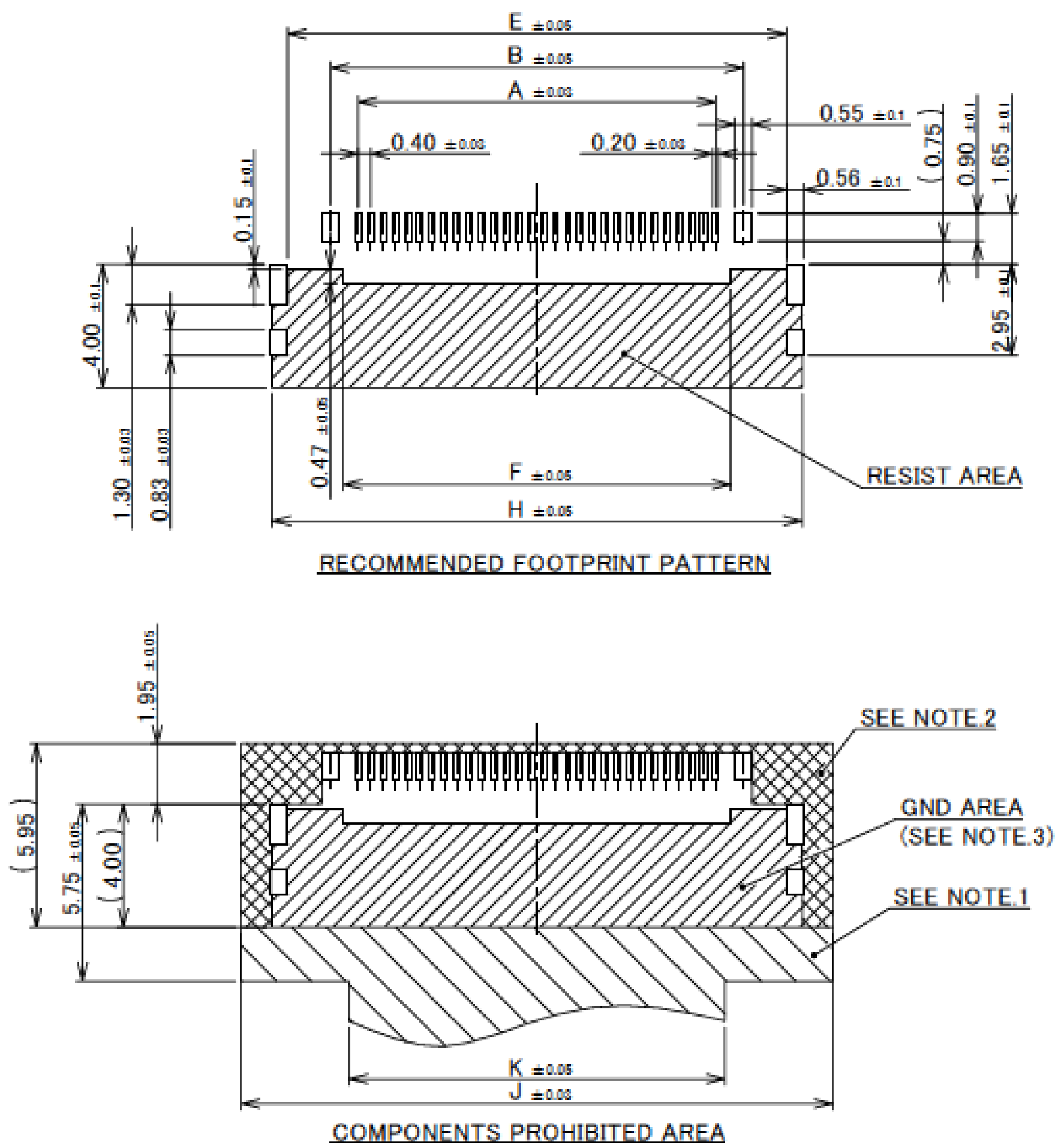


3	SHELL	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.14

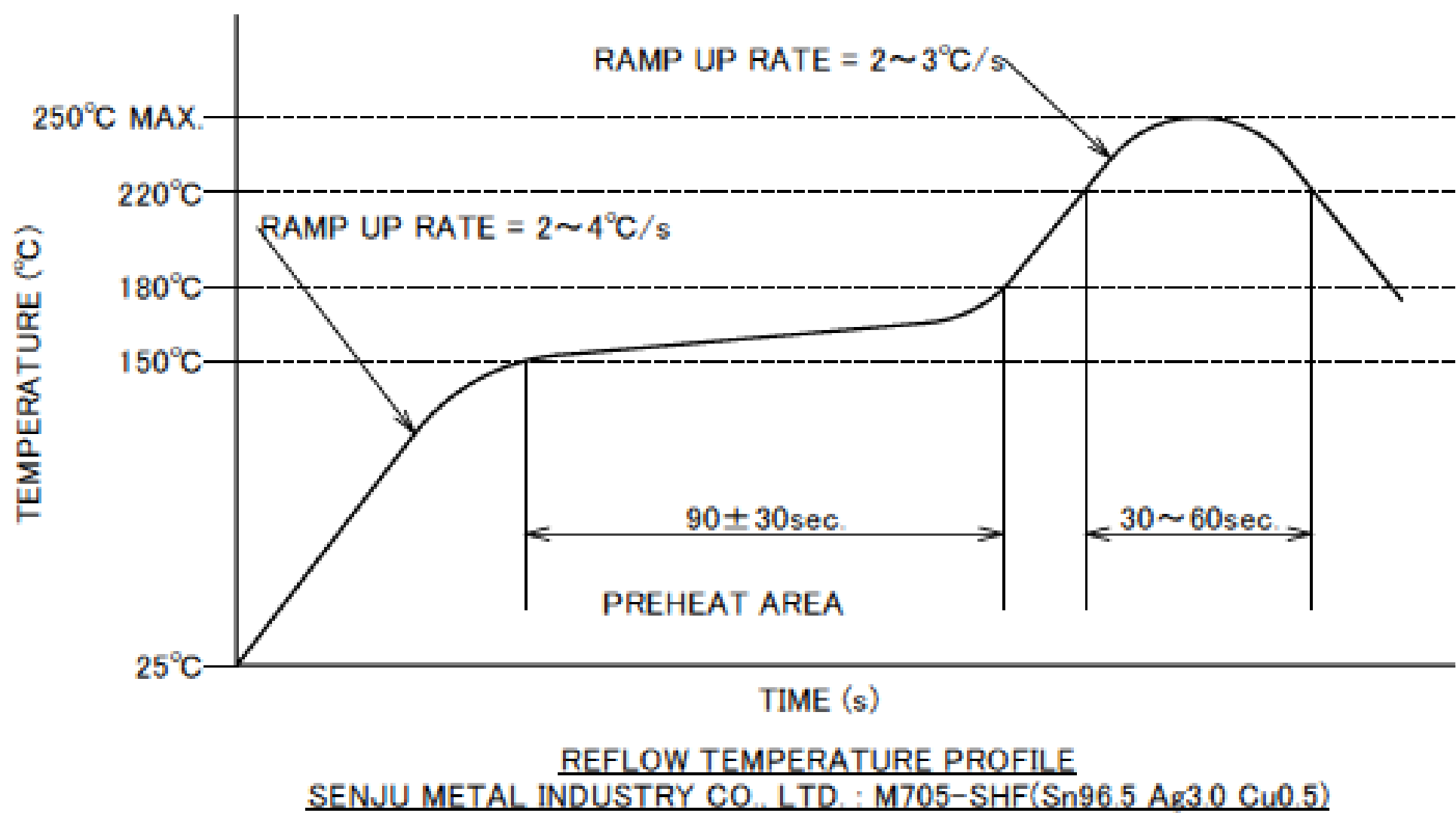
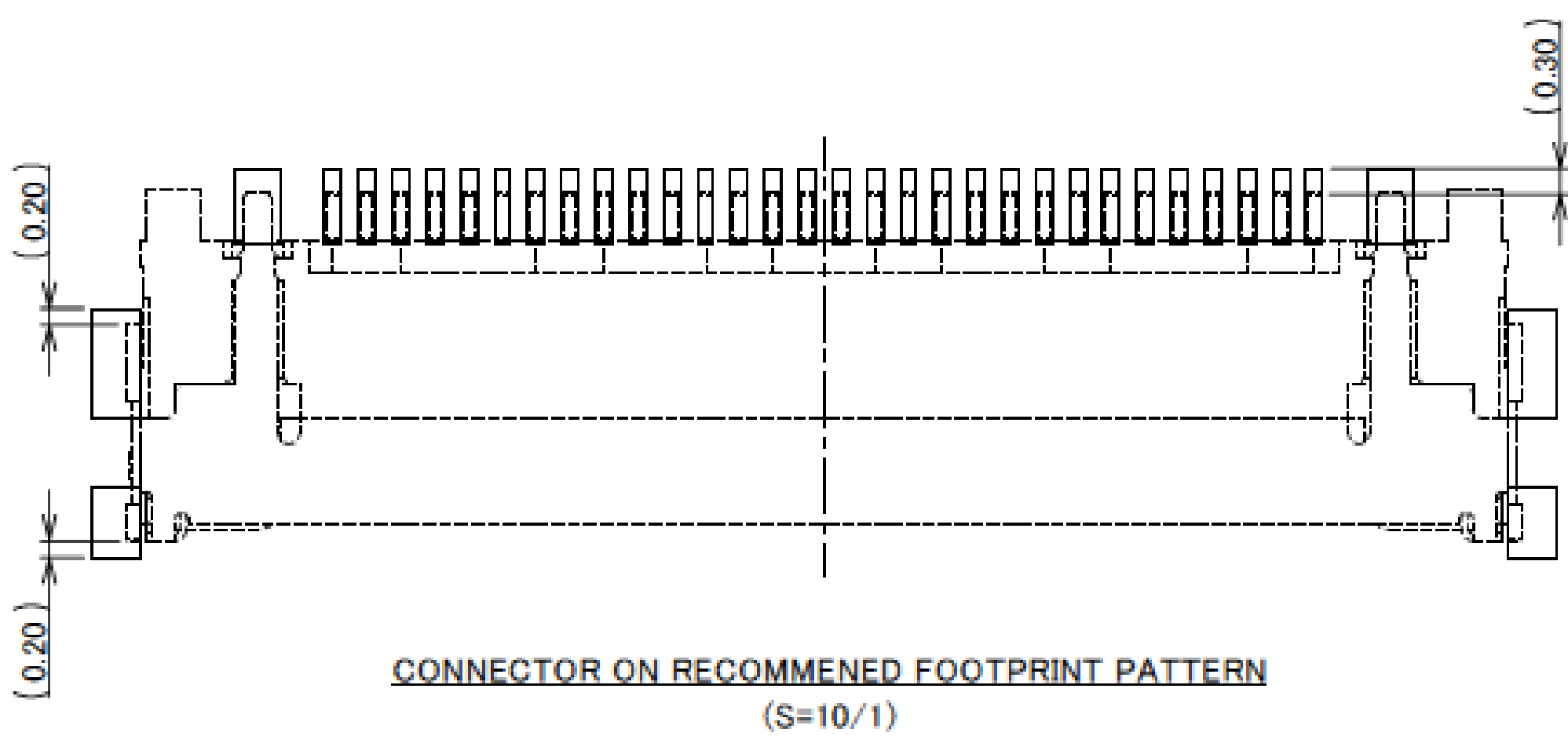
Receptacle Assembly

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

Rev.14



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℃~+85℃)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 275mohm MAX. (AWG#36)/ AFTER TEST : ≦40mohm MAX. 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ≦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***

Custom Connectors Available

RF Connectors

MHF® series



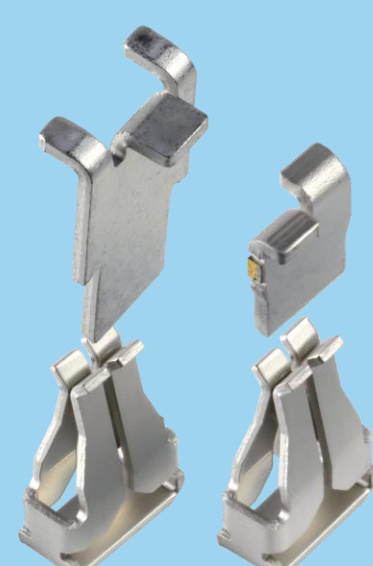
CABLINE® series

Micro-Coaxial/Twinaxial Connectors

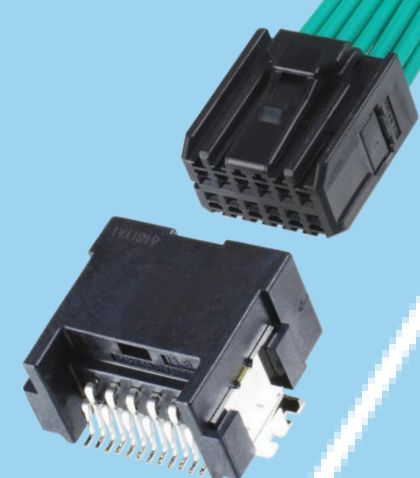


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



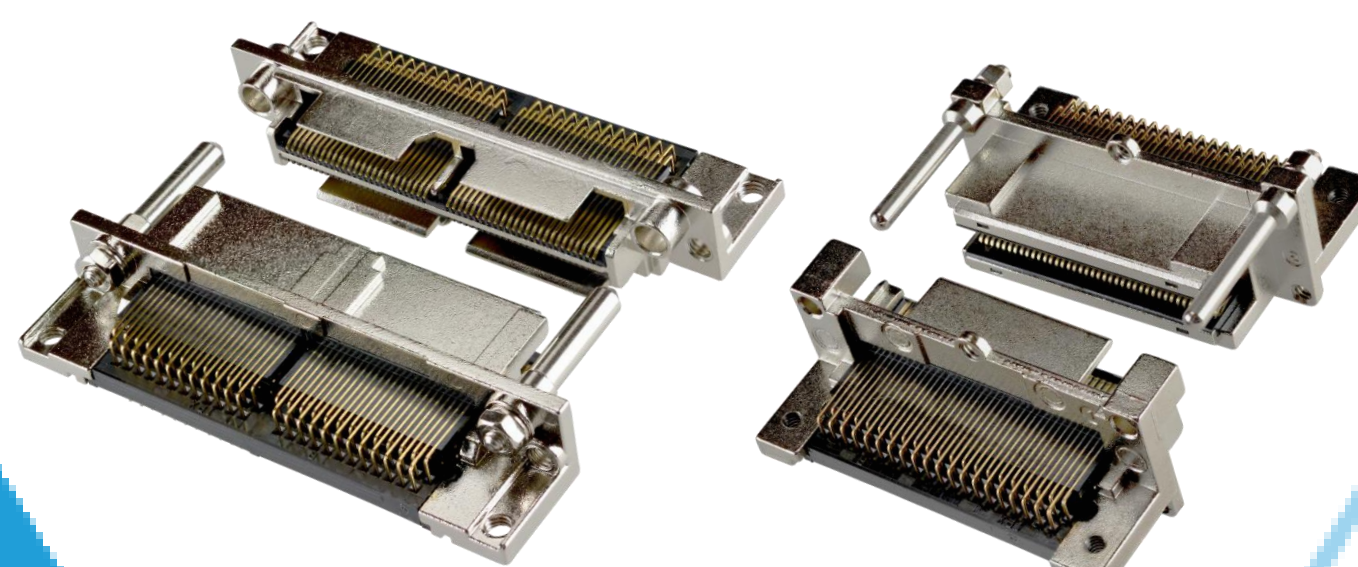
NOVASTACK® series



Board-to-Board Connectors

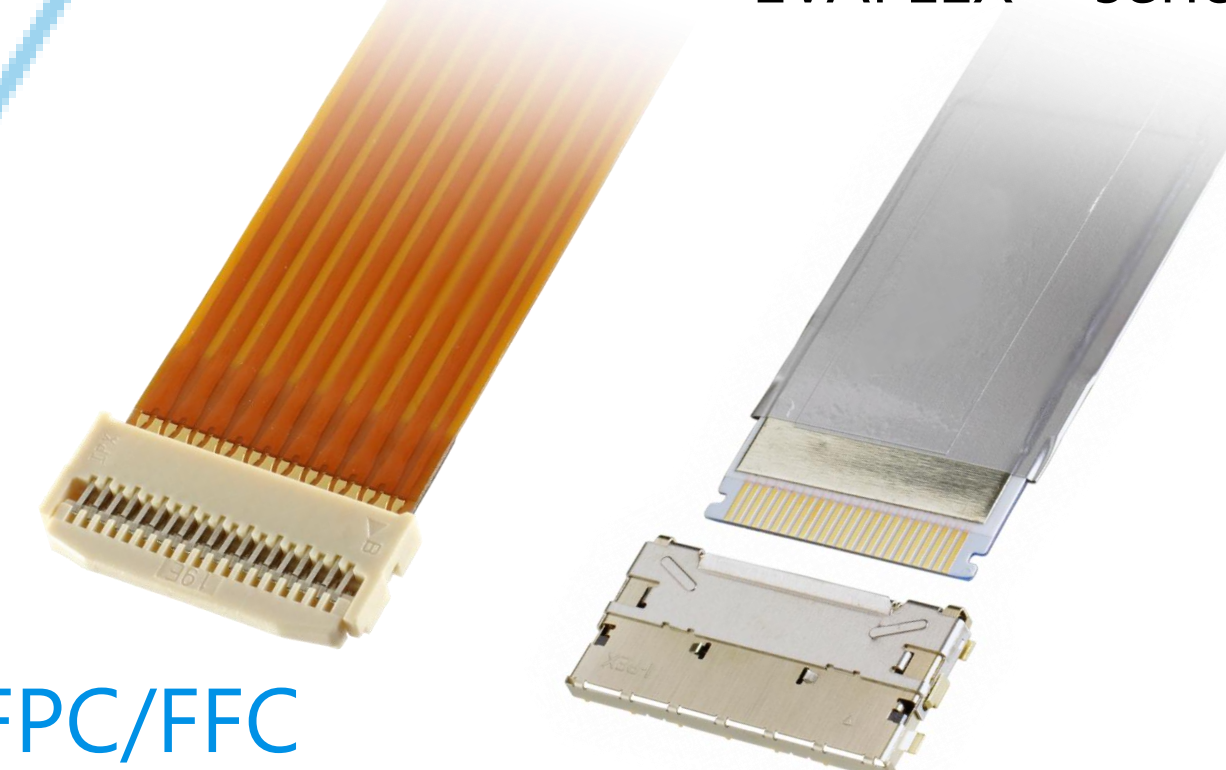


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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