

CABLINE® -UX II

适合通孔解决方案的超细设计，窄间距（0.25 mm），90°出线垂直插拔款的极细同轴线连接器

Product Specifications:

Mating type		Right angle vertical
Board Pitch		0.5 mm
Wiping Length		0.2 mm
Mated Size	Height	1.10 mm max.
	Width	4.1 + (0.25 x pin count) mm
	Depth	2.4 mm
Pin Counts	Range	Up to 50
	Available	30, 34, 40, 50

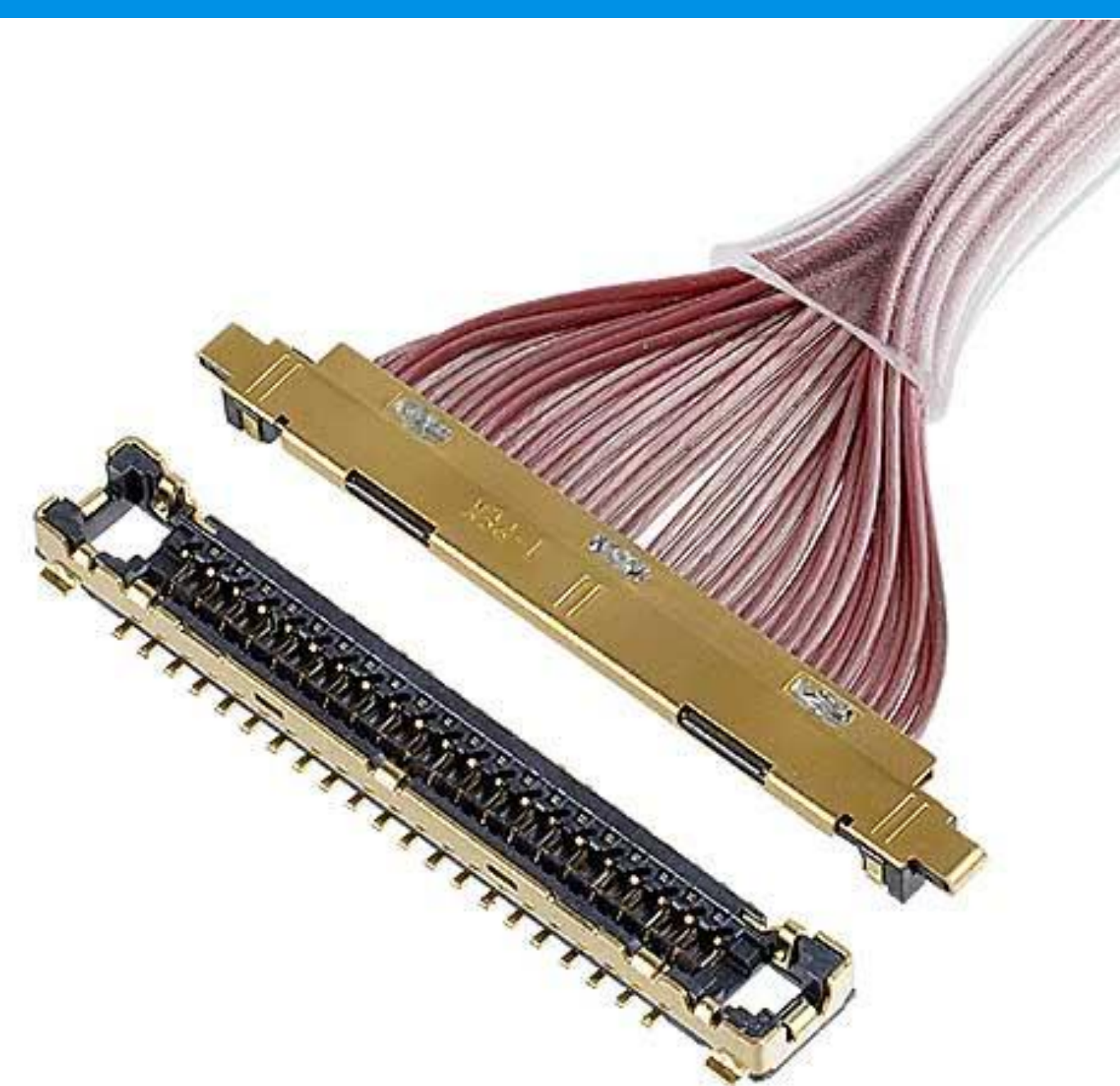
Applicable Cable Size:

Maximum O.D.	0.25 mm
Micro-Coaxial for Signal	45 ohm: AWG 44 or smaller 50 ohm: AWG 46 or smaller
Twinaxial	-
Discrete	AWG 39 or smaller

Applicable Standards (Reference Only):

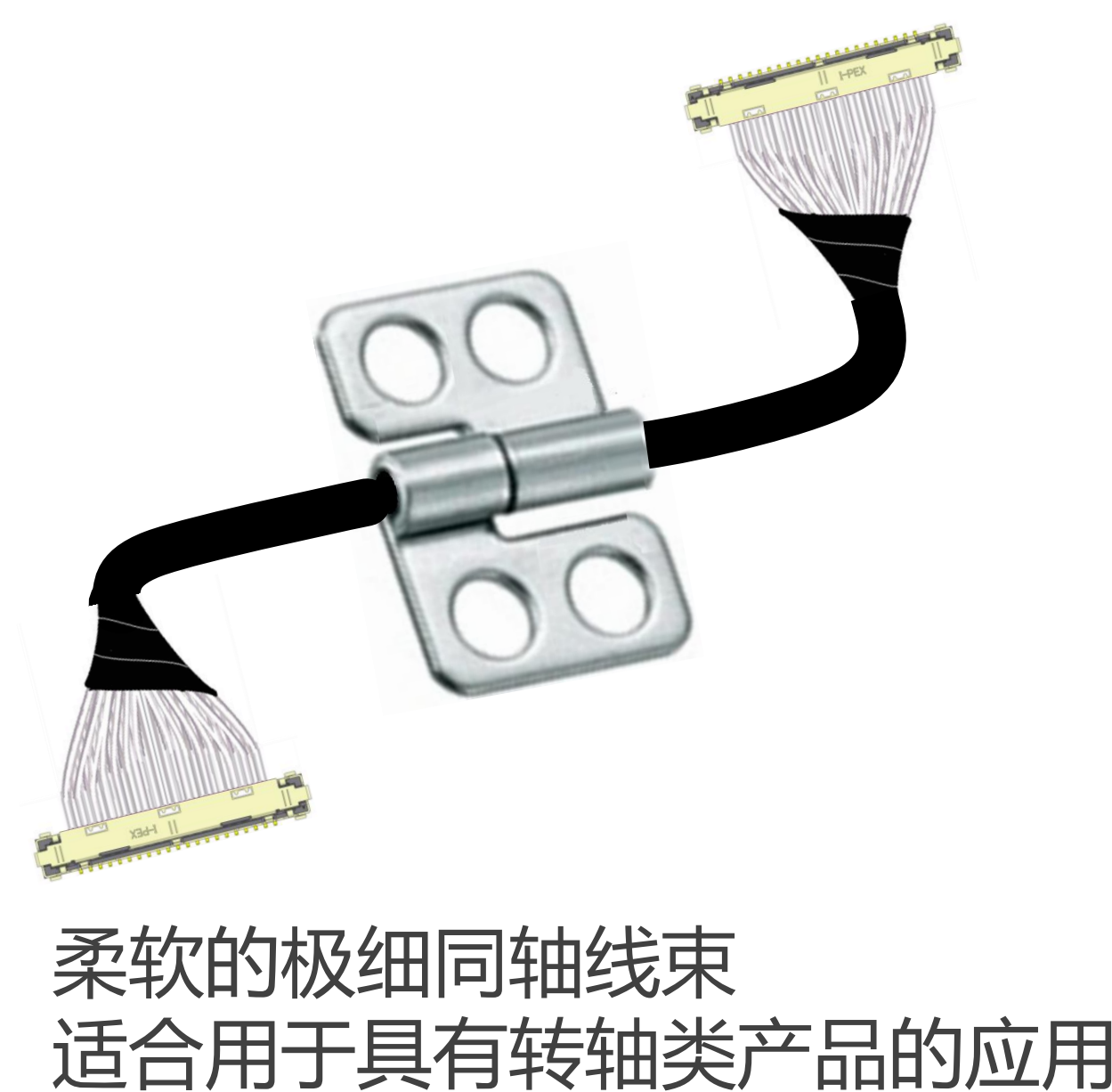
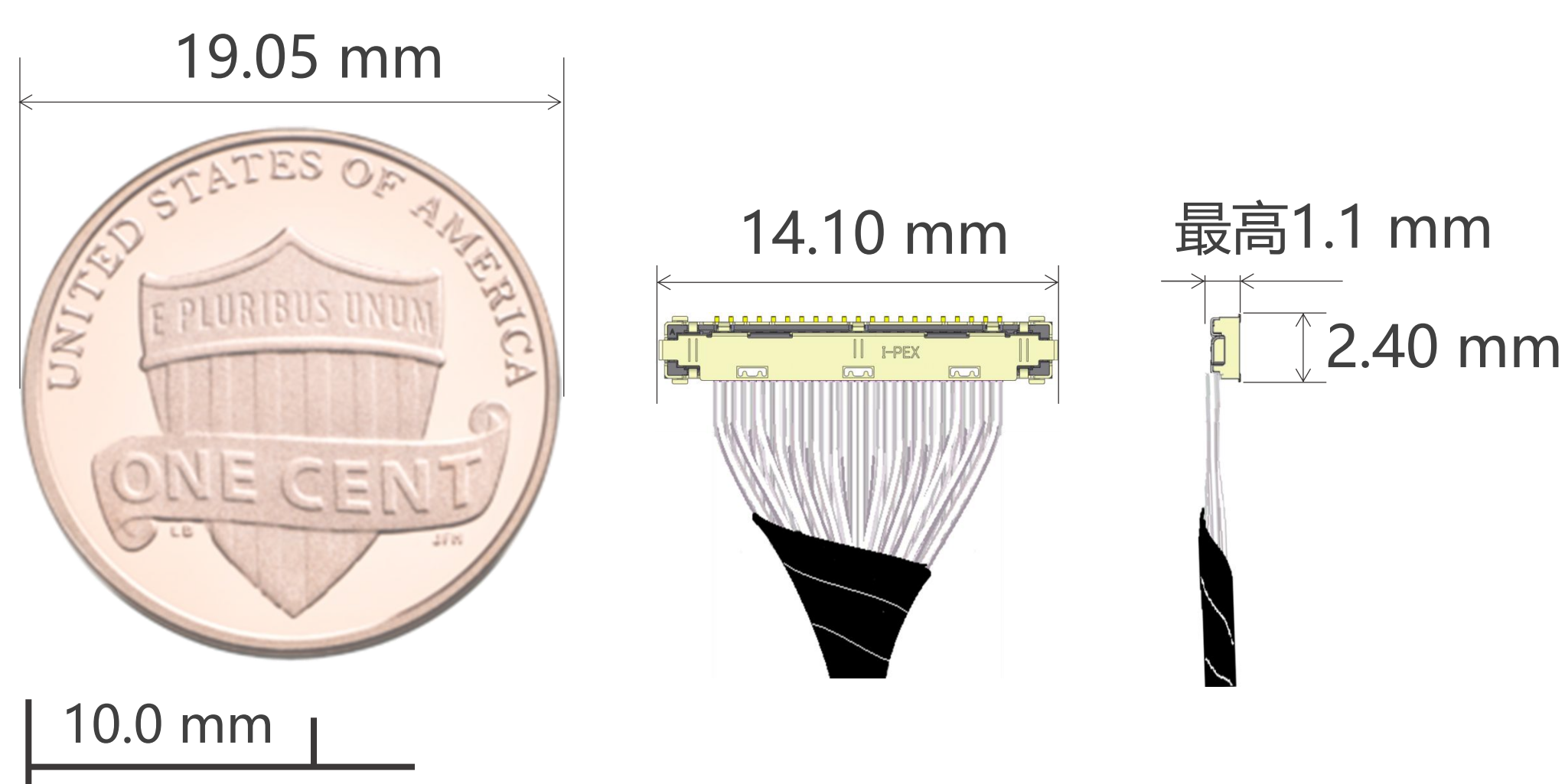
USB 3.1 Gen 1 (5 Gbps), V-By-One HS 1.4 (4 Gbps), HDMI 1.3 (3.4 Gbps)

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。



空间有限的小型电子产品的理想选择

CABLINE-UX II 40 pin 的连接器大小比一分钱硬币还小。

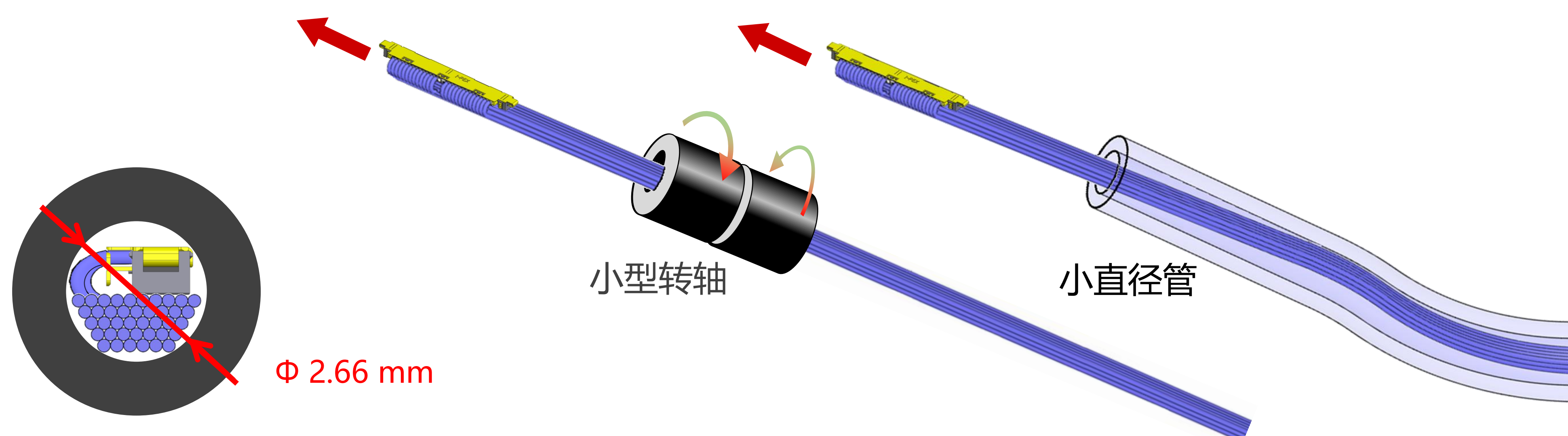


Plug尺寸也非常小巧，能够方便穿过转轴

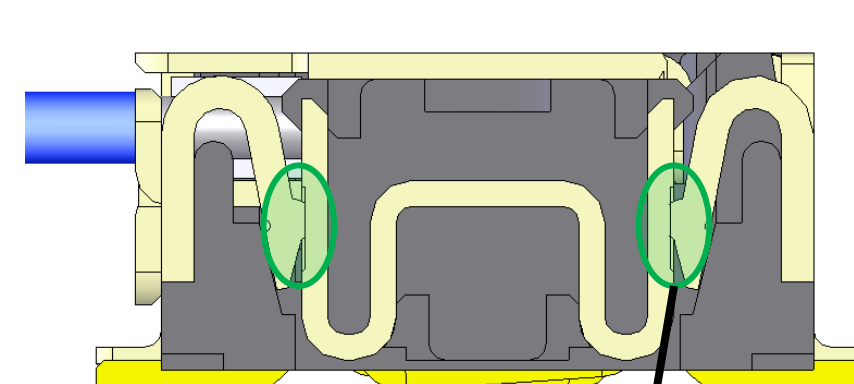
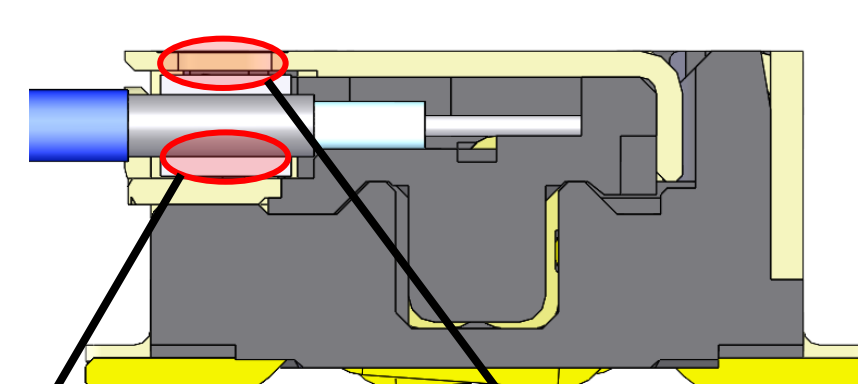
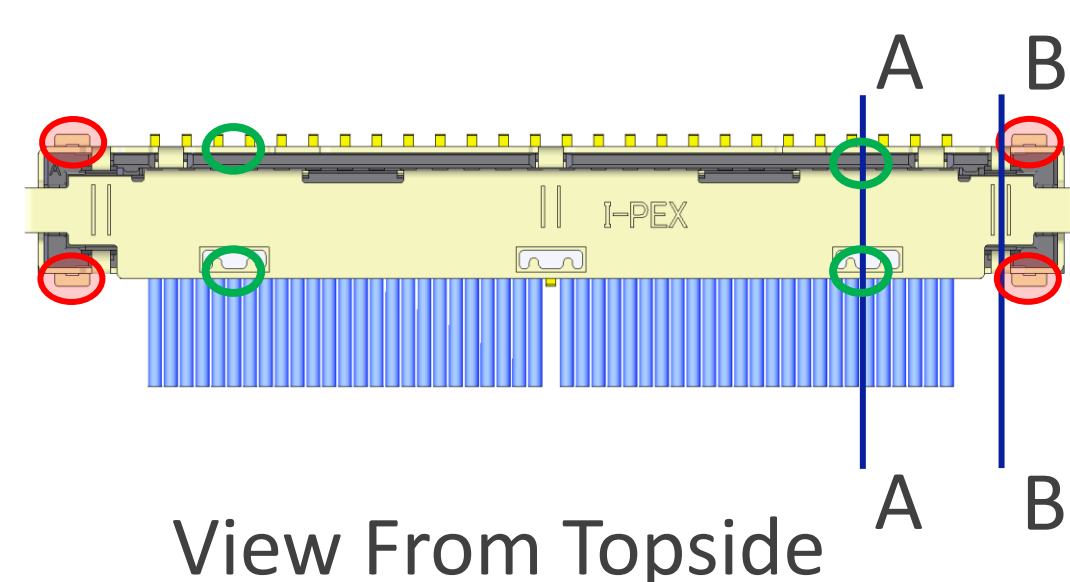
模拟参考示例：

当使用外径为0.24 mm的同轴线加工成的 UX II 40pin 线束可以穿过内孔径为 $\Phi 2.66$ mm的转轴或者软管。

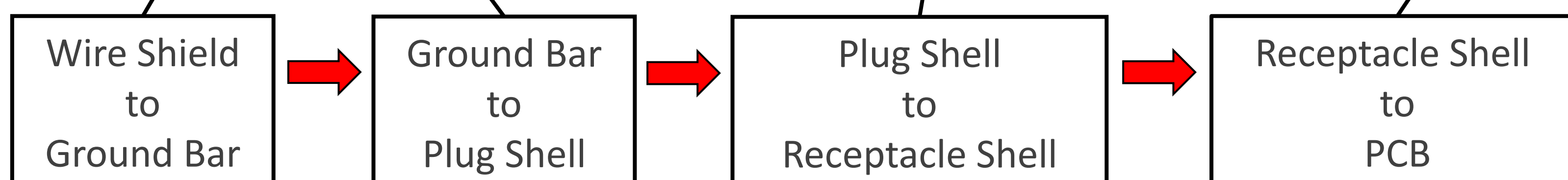
[穿越转轴组件- CABLINE®连接器](#)



多点接地设计提供良好的EMC解决方案



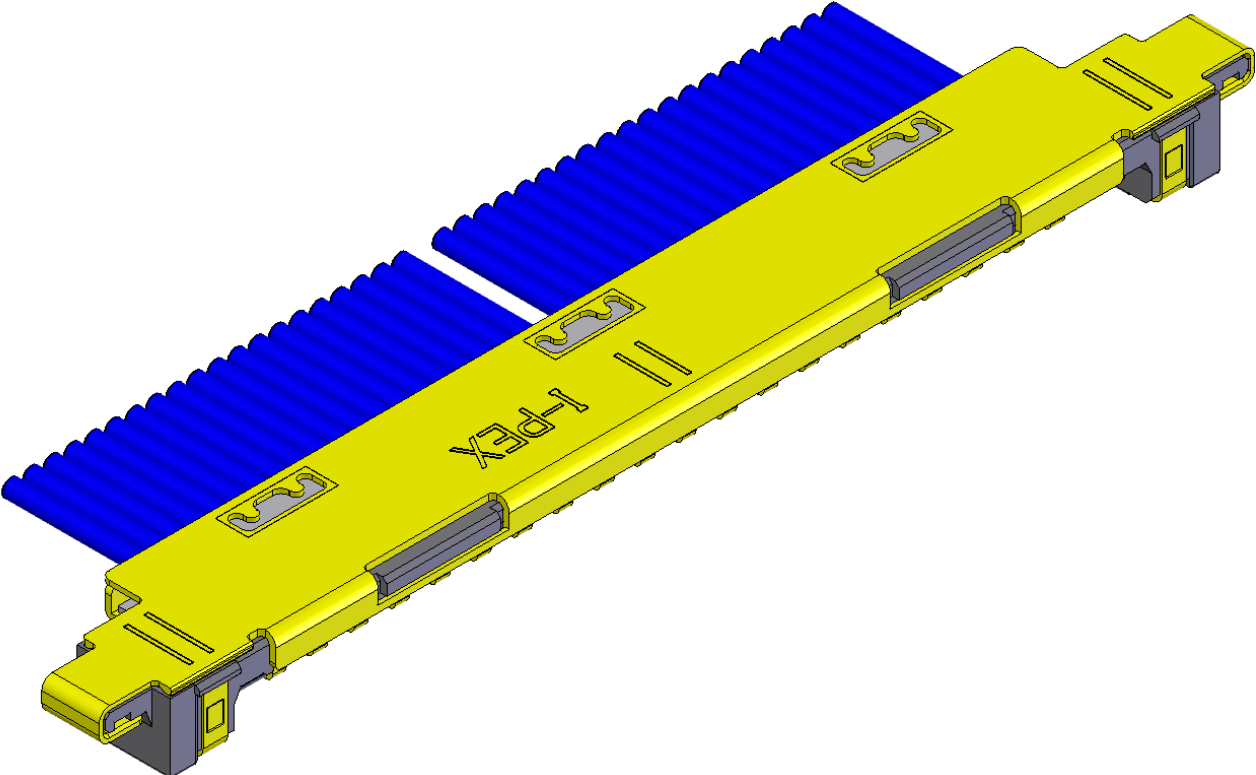
○ Soldered contacts
○ Mechanical contacts



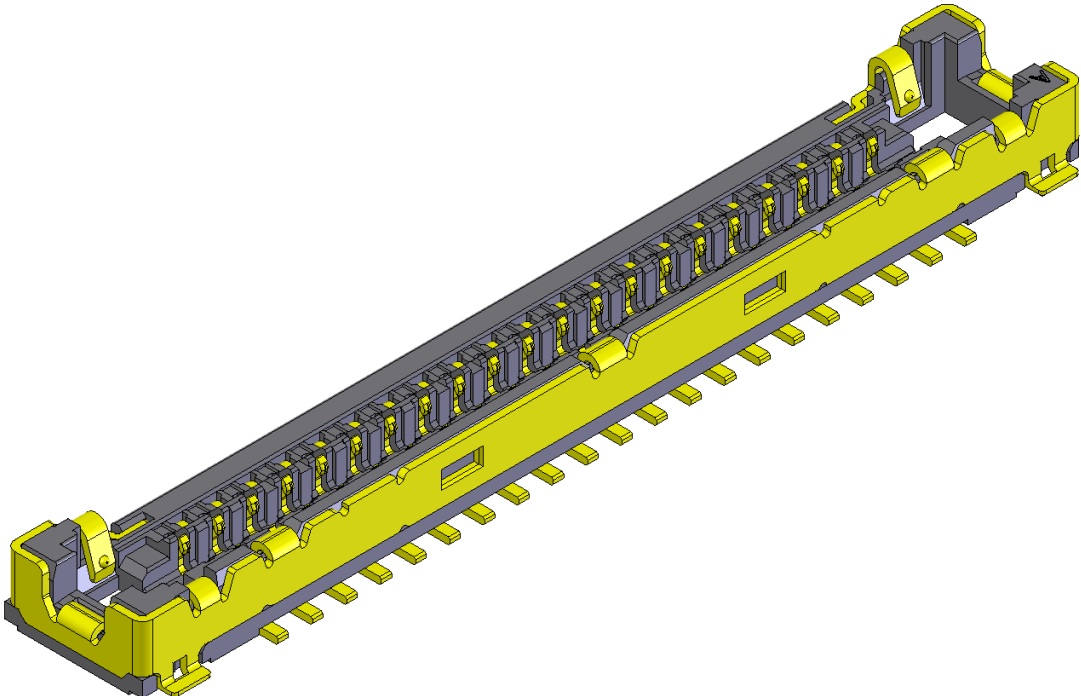
Component Parts Details

Component Parts

Connector parts

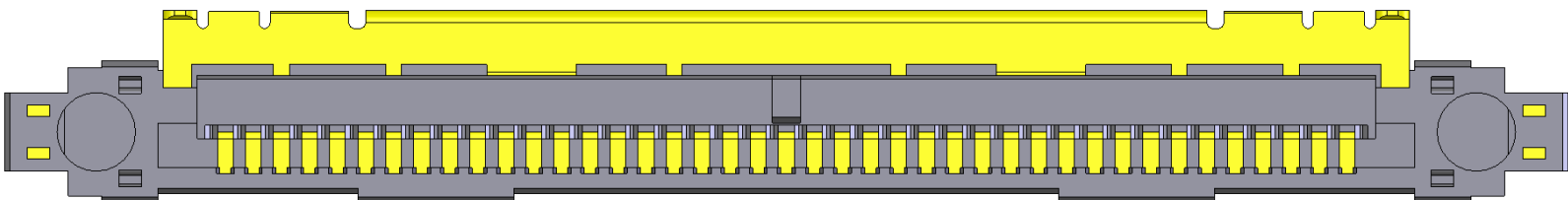


PLUG

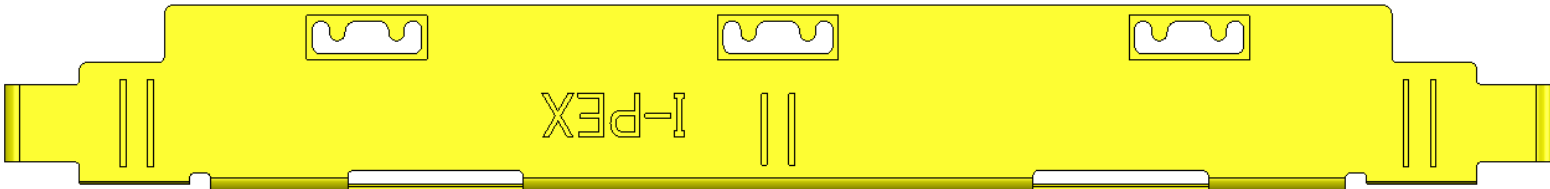


RECEPTACLE

Plug parts



PLUG HOUSING ASSEMBLY

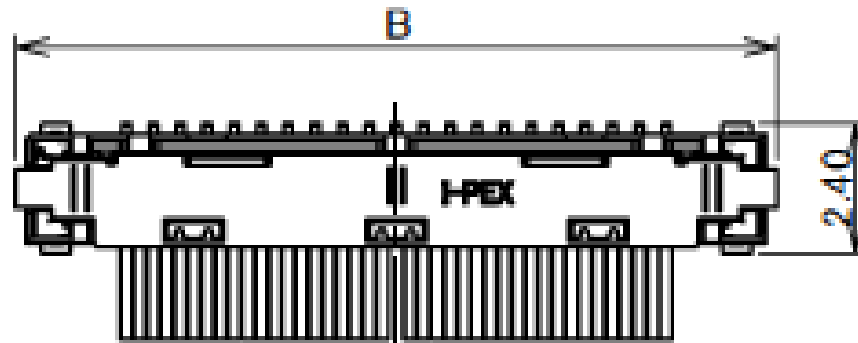
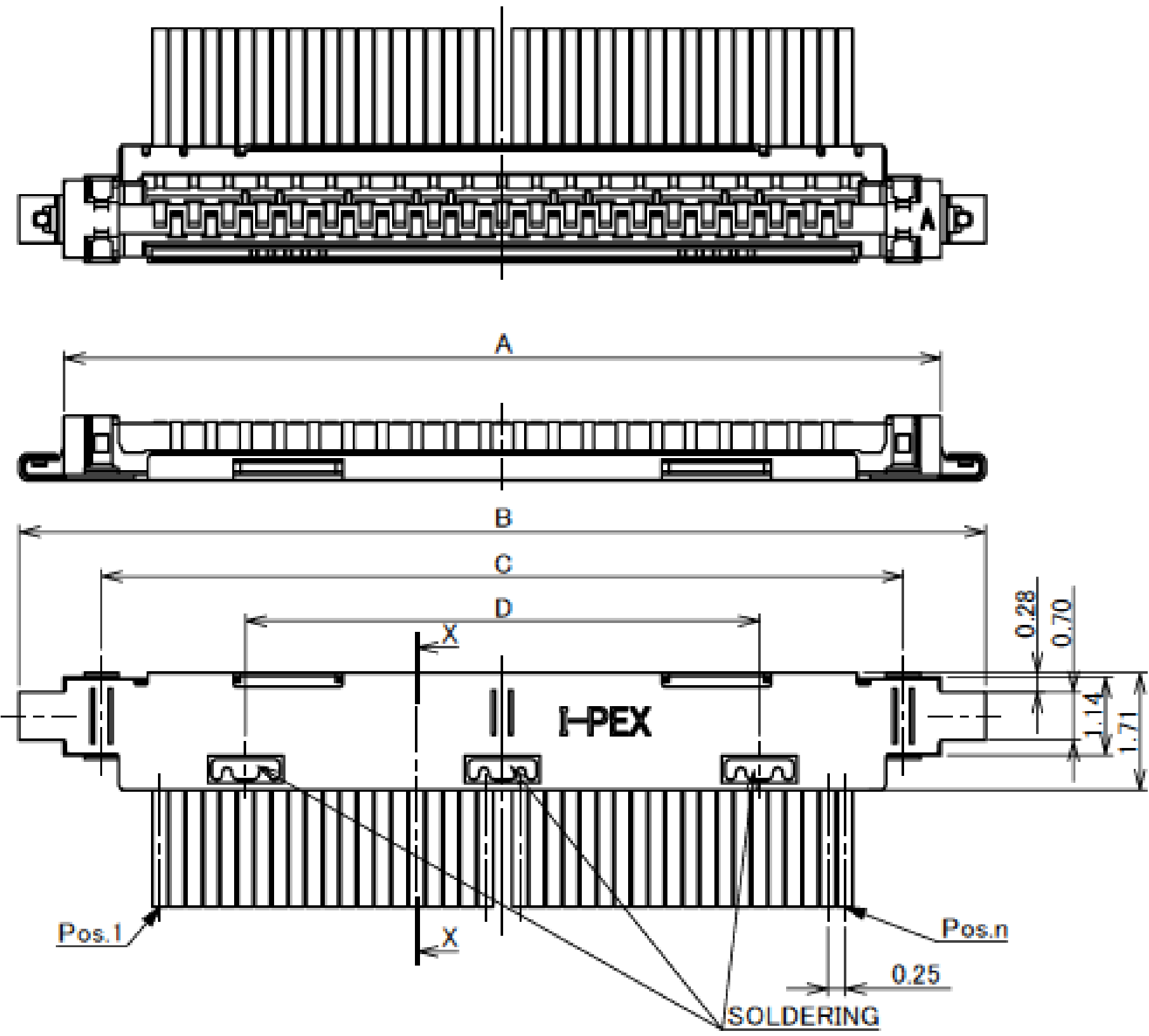
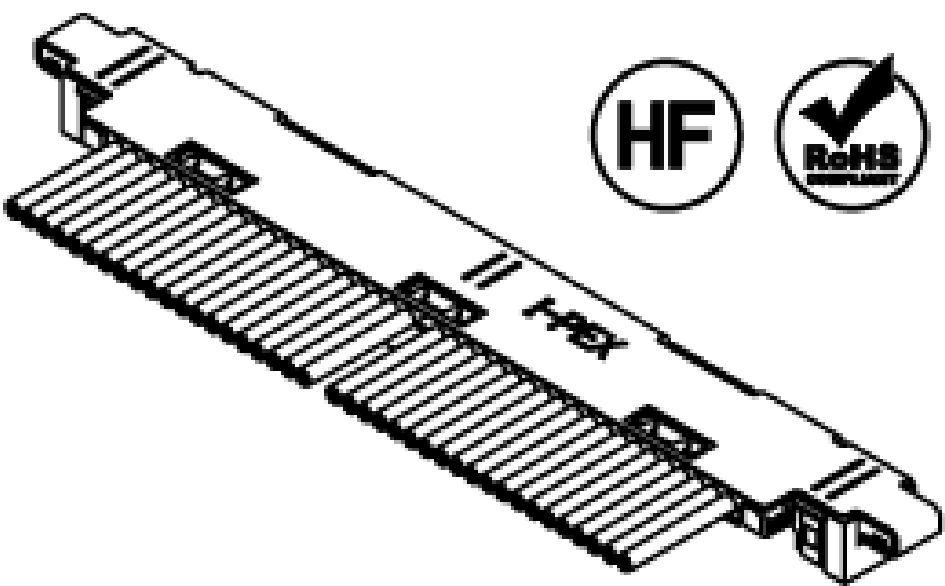
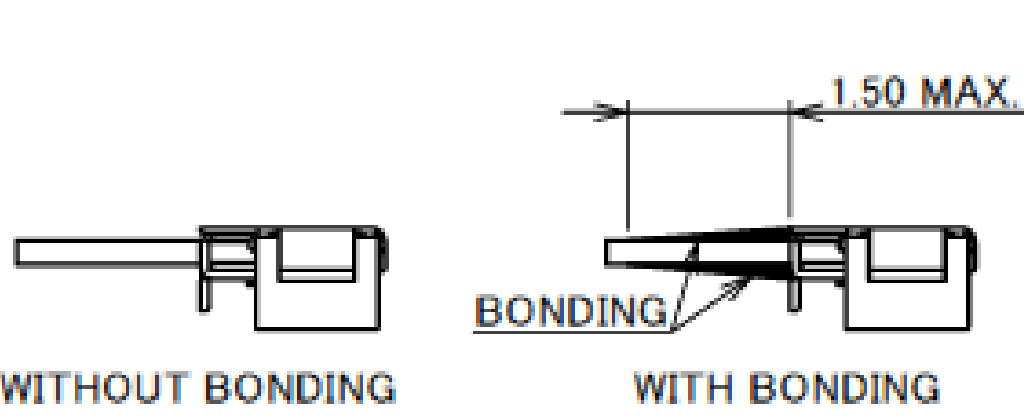


PLUG METAL COVER

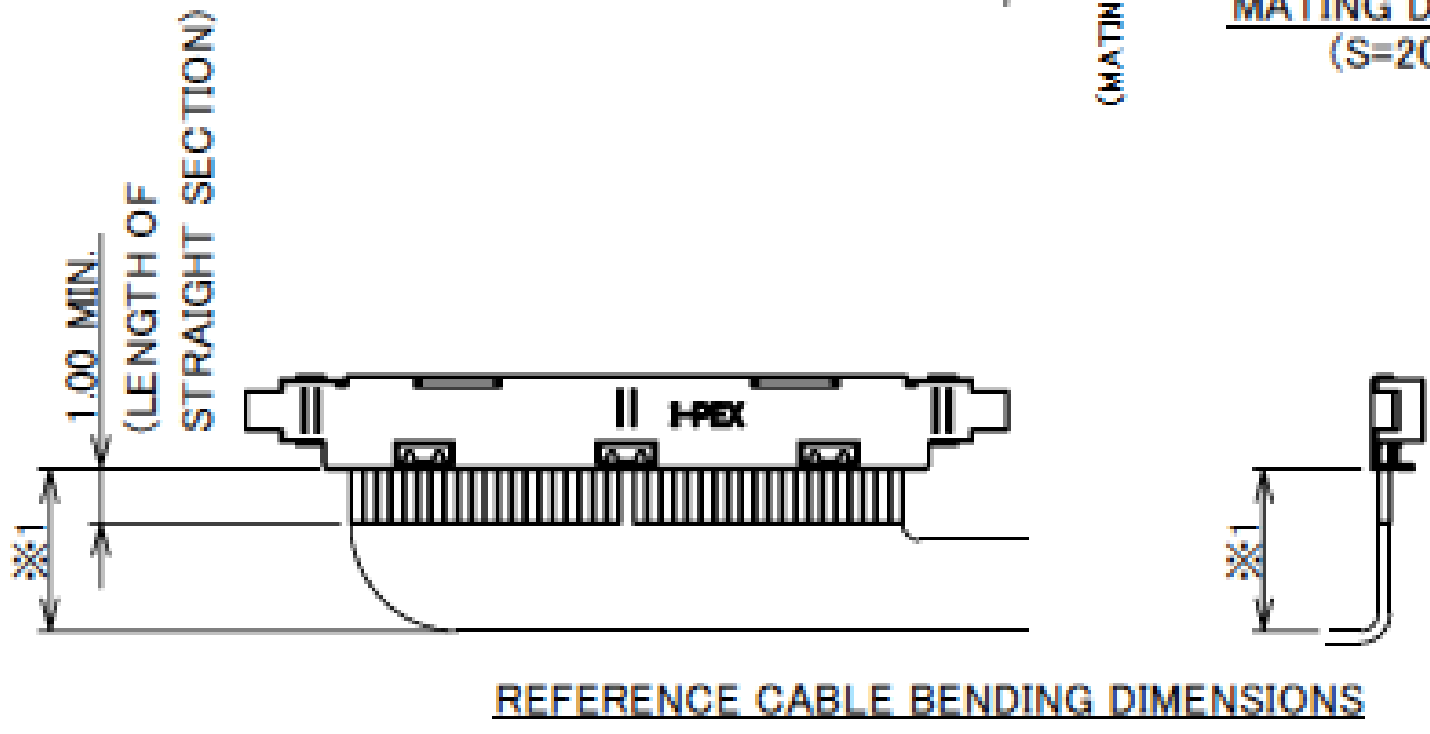
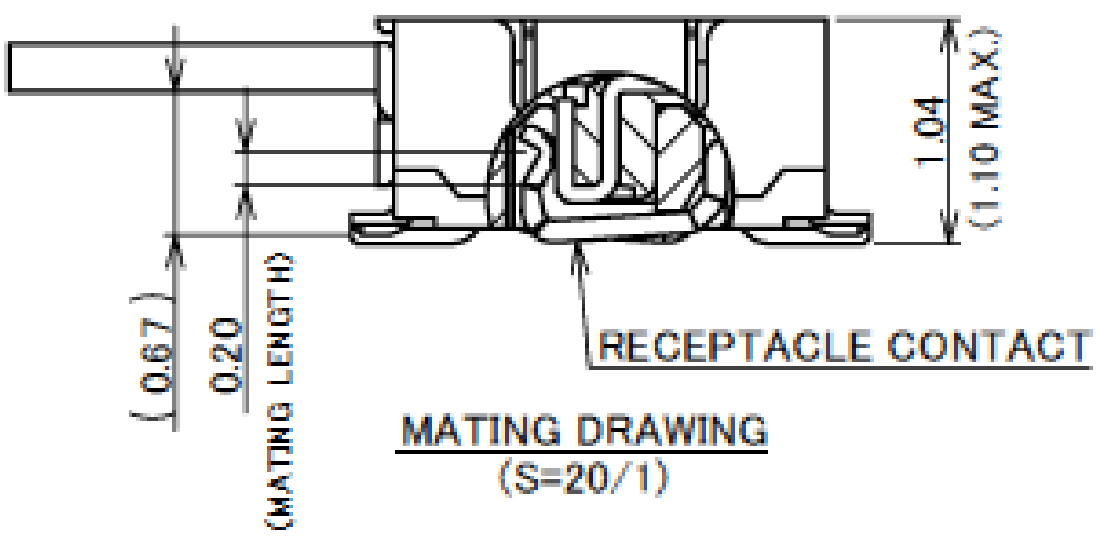
Plug for Cable Assembly

RECOMMENDED PART No.		20531-0**T-02-1			
PART No.	A	B	C	D	
20531-030T-02-1	10.3	11.6	9.2	5.0	
20531-034T-02-1	11.3	12.6	10.2	6.0	
20531-040T-02-1	12.8	14.1	11.7	7.5	
20531-050T-02-1	15.3	16.6	14.2	10.0	

20531-0 ** T-02-1
Pos.

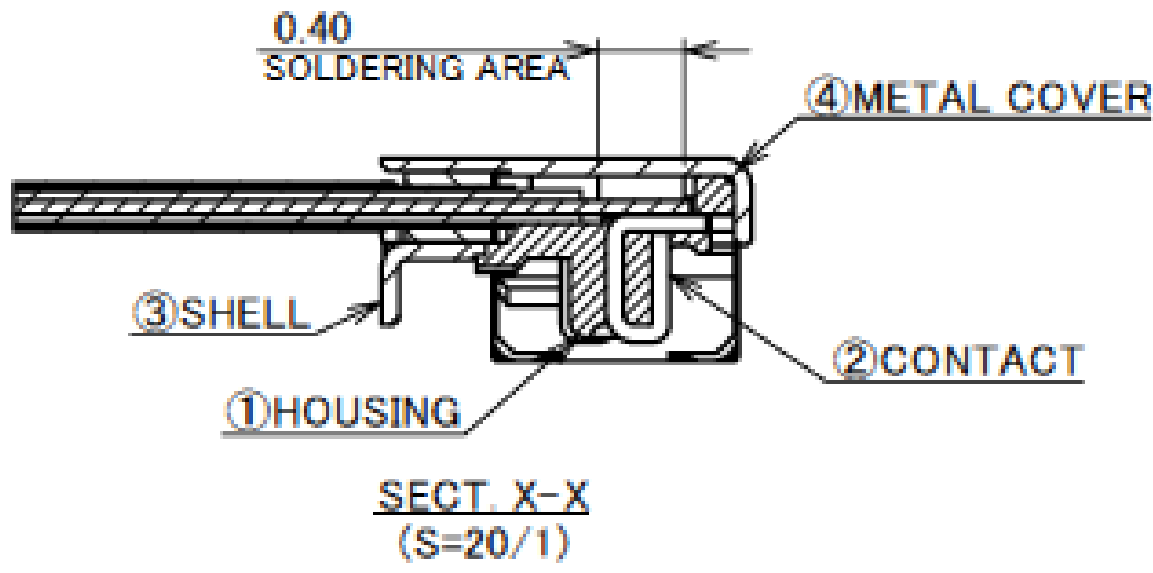


MATING SIZE
(S=5/1)

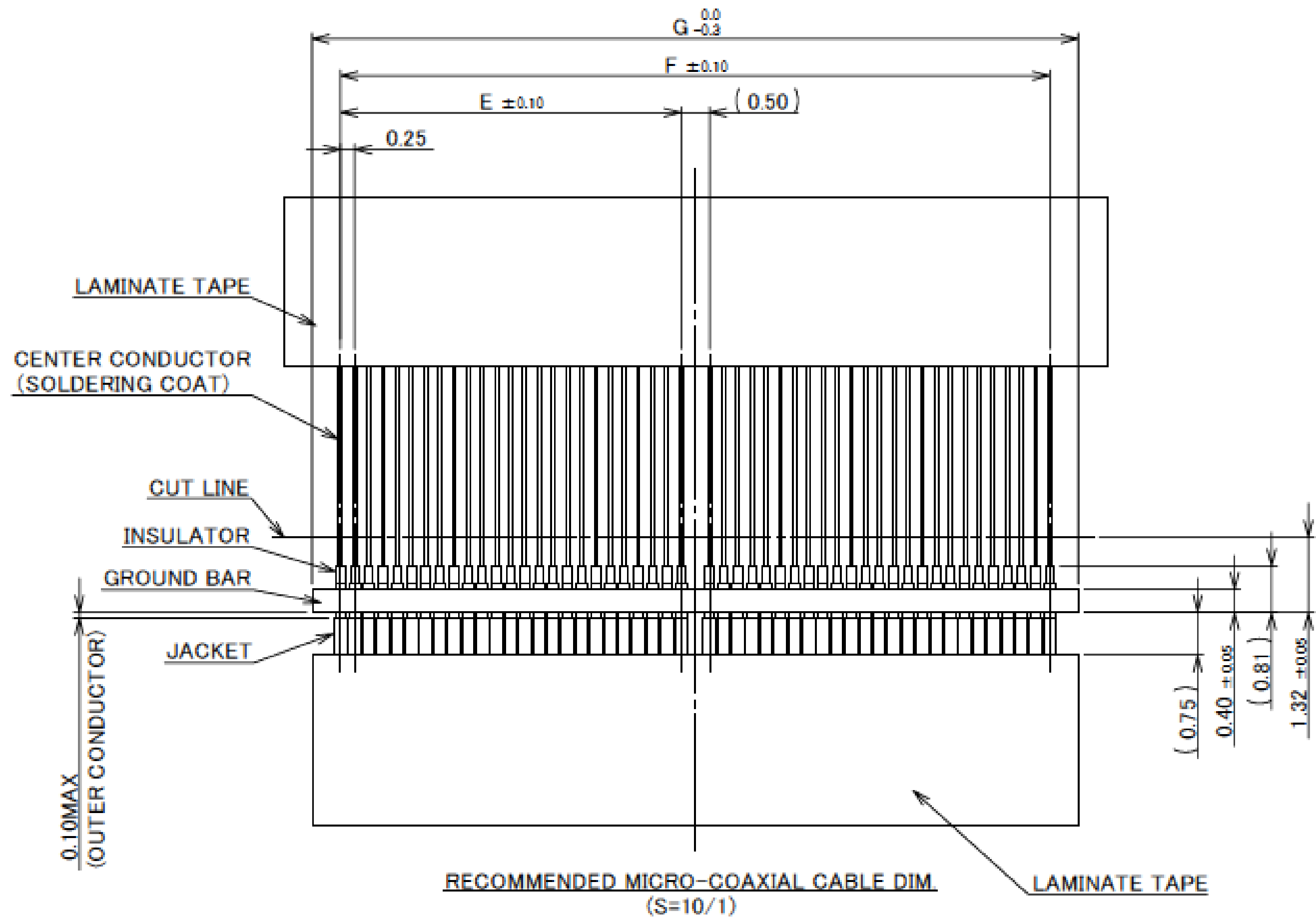


※1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

4	METAL COVER	SUS	Au 0.05 μ m MIN. OVER Ni 1.0 μ m MIN.
3	SHELL	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.0 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN.
1	HOUSING	LCP	UL94V-0 .BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

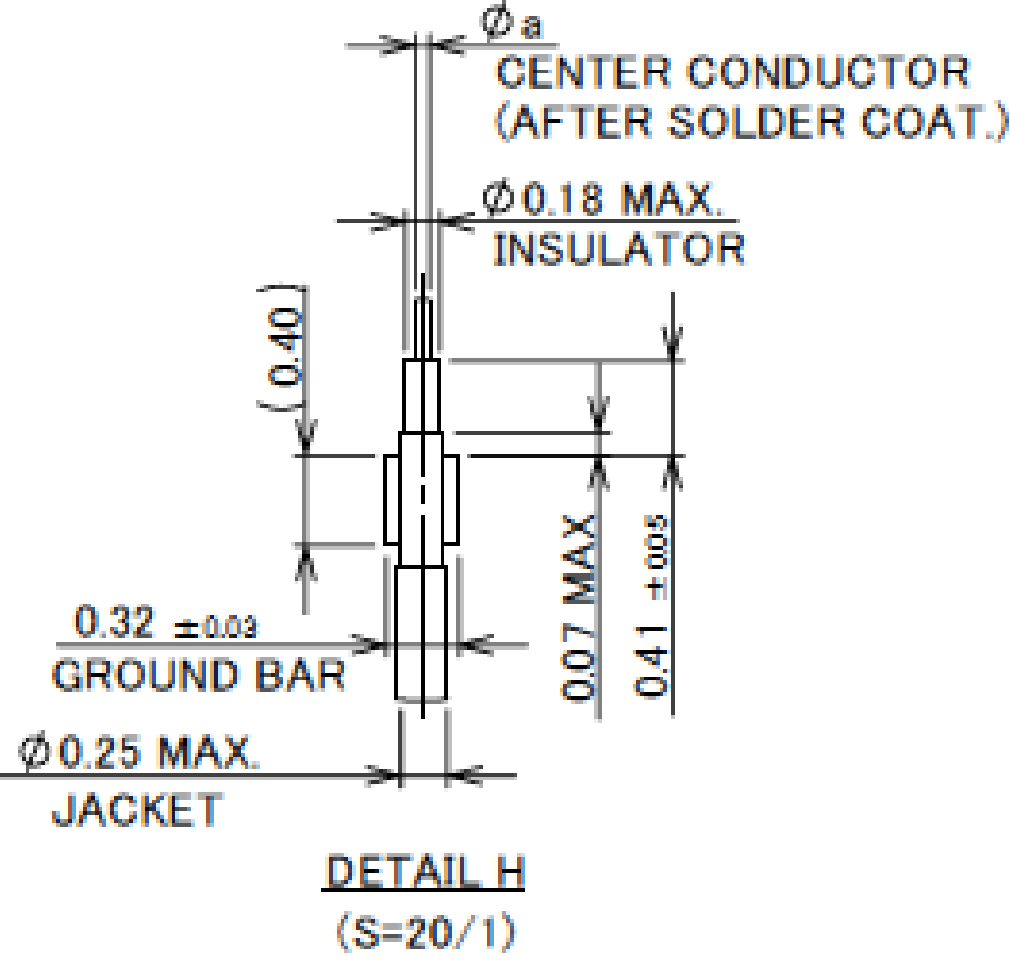


PART No.	E	F	G
20531-030T-02-1	3.5	7.5	8.5
20531-034T-02-1	4.0	8.5	9.5
20531-040T-02-1	4.75	10.0	11.0
20531-050T-02-1	6.0	12.5	13.5



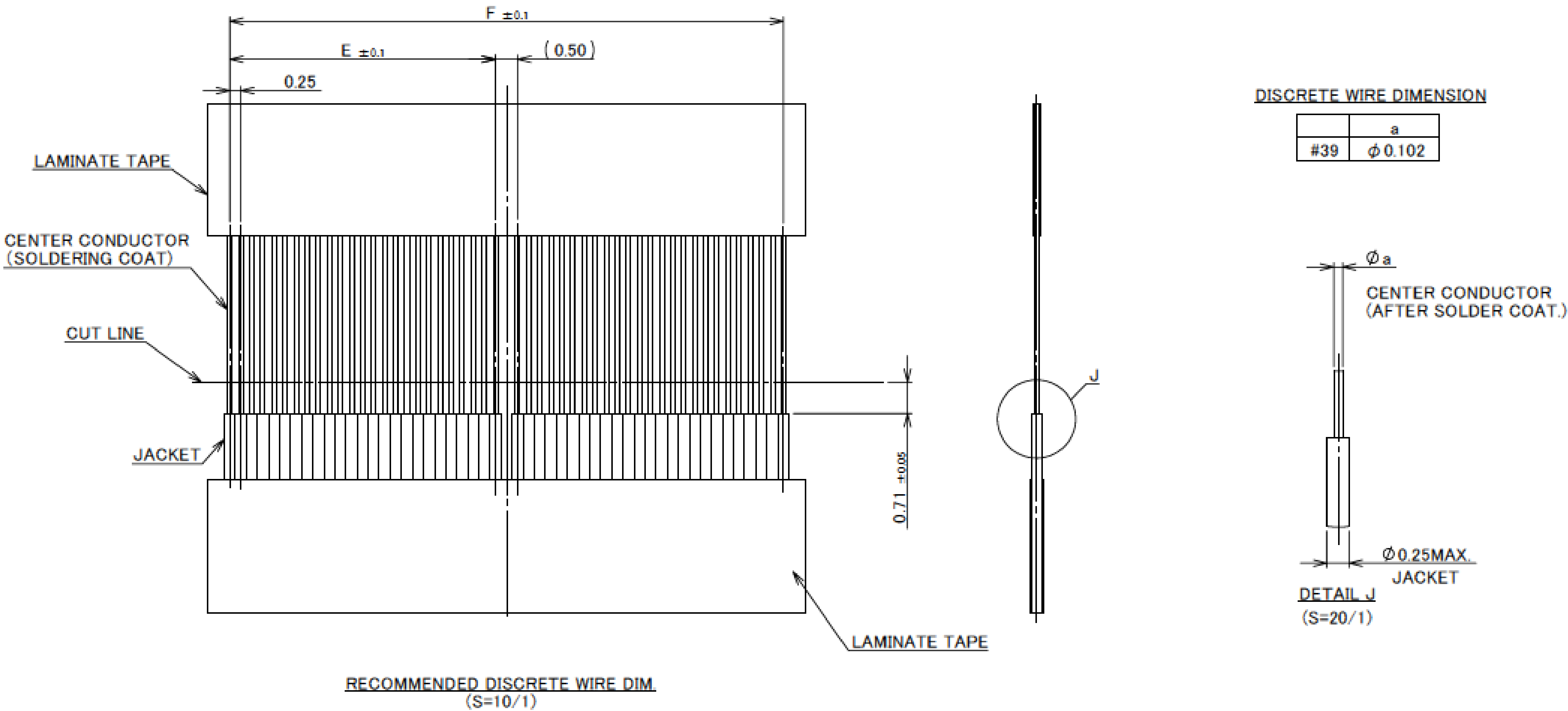
MICRO-COAXIAL CABLE DIMENSION

	a
#44	ϕ 0.063
#46	ϕ 0.048



Plug for Cable Assembly

PART No.	E	F
20531-030T-02-1	3.5	7.5
20531-034T-02-1	4.0	8.5
20531-040T-02-1	4.75	10.0
20531-050T-02-1	6.0	12.5



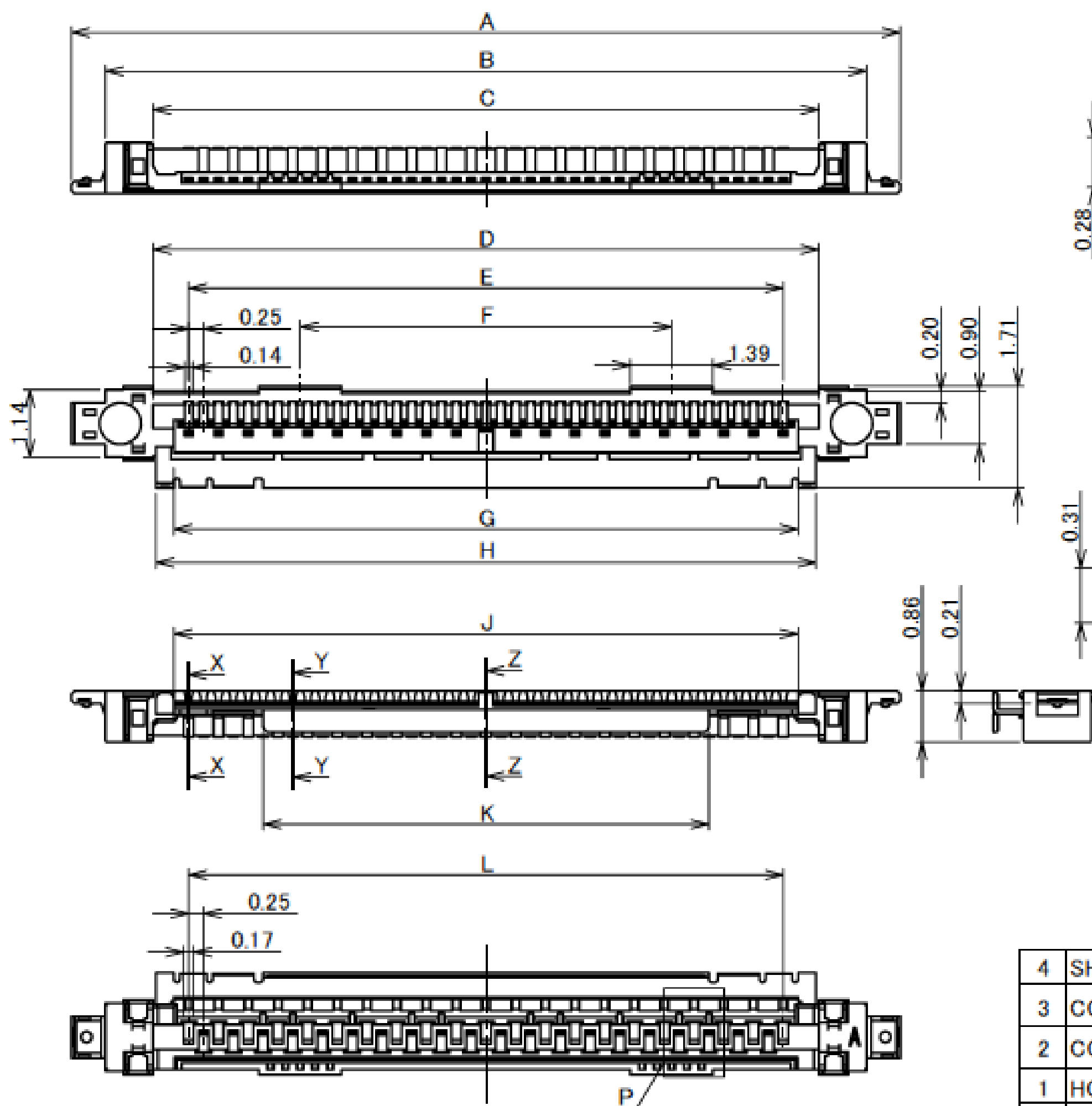
Rev.15

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 ,46 DISCRETE WIRE : AWG#39
RATING VOLTAGE	50V 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)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 6 CONTACTS) 0.15A AC/DC [AWG#44] 0.10A AC/DC [AWG#46] ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	75% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : ∠40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : ∠40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 26.4N MAX. 34P : 27.6N MAX. 40P : 29.4N MAX. 50P : 32.4N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.5N MIN. 34P : 1.9N MIN. 40P : 2.5N MIN. 50P : 3.5N MIN.
CABLE RETENTION FORCE	30P : 15.0N MIN. 34P : 17.0N MIN. 40P : 20.0N MIN. 50P : 25.0N MIN.
PRODUCT SPECIFICATION	PRS-2887
TEST REPORT	TR-24028
INSTRUCTION MANUAL	HIM-10001
ASSEMBLY MANUAL	ASM-10001
APPEARANCE CRITERIA No.	QLS-A***

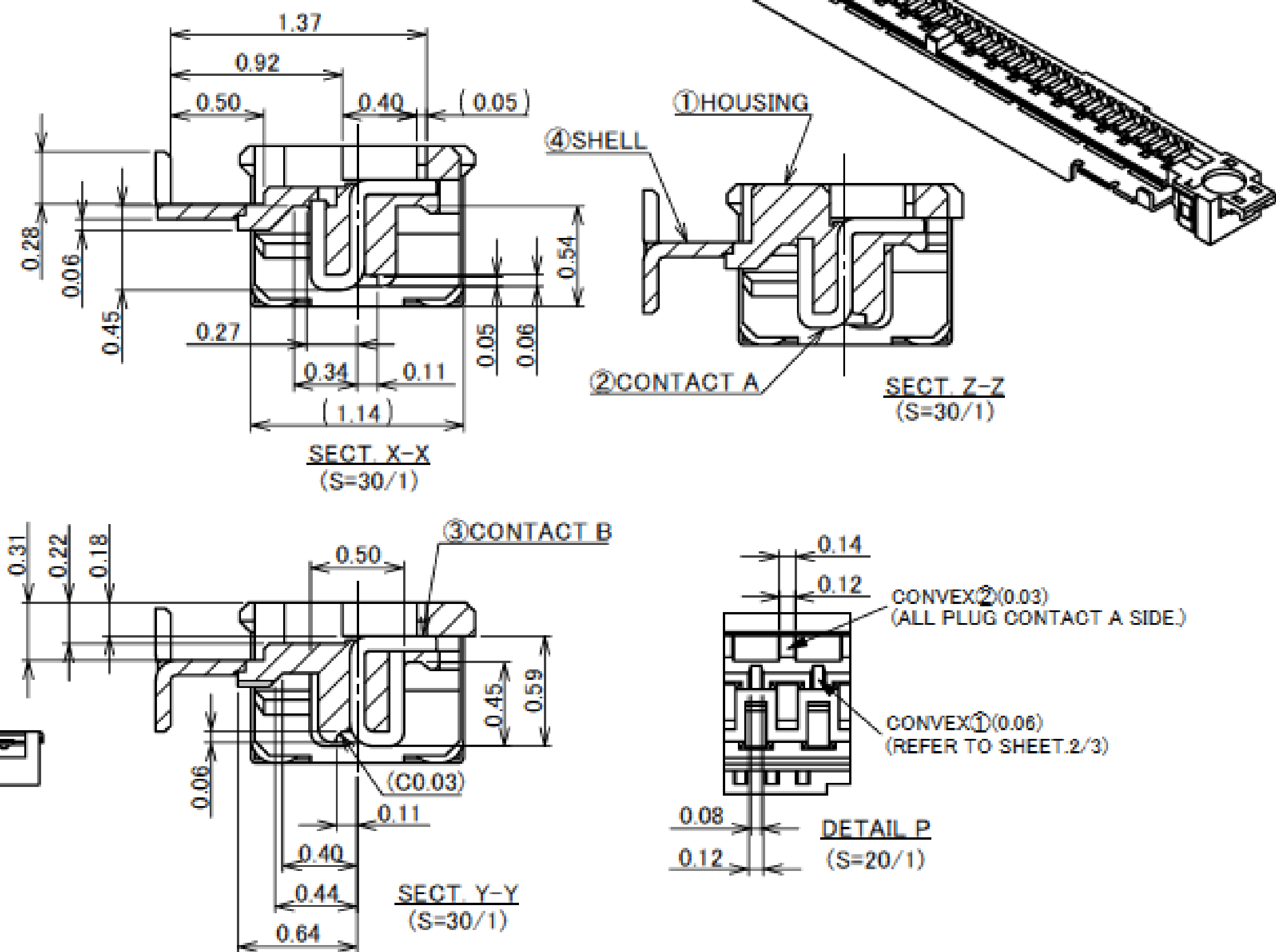
Rev.15

Plug Housing Assembly

RECOMMENDED PART No.		20532-0**T-02-1										
PART No.	Pos	A	B	C	D	E	F	G	H	J	K	L
20532-030T-02-1	30	11.44	10.30	8.70	8.70	7.50	3.75	8.00	8.60	8.00	5.00	7.50
20532-034T-02-1	34	12.44	11.30	9.70	9.70	8.50	4.75	9.00	9.60	9.00	6.00	8.50
20532-040T-02-1	40	13.94	12.80	11.20	11.20	10.00	6.25	10.50	11.10	10.50	7.50	10.00
20532-050T-02-1	50	16.44	15.30	13.70	13.70	12.50	6.25	13.00	13.60	13.00	10.00	12.50



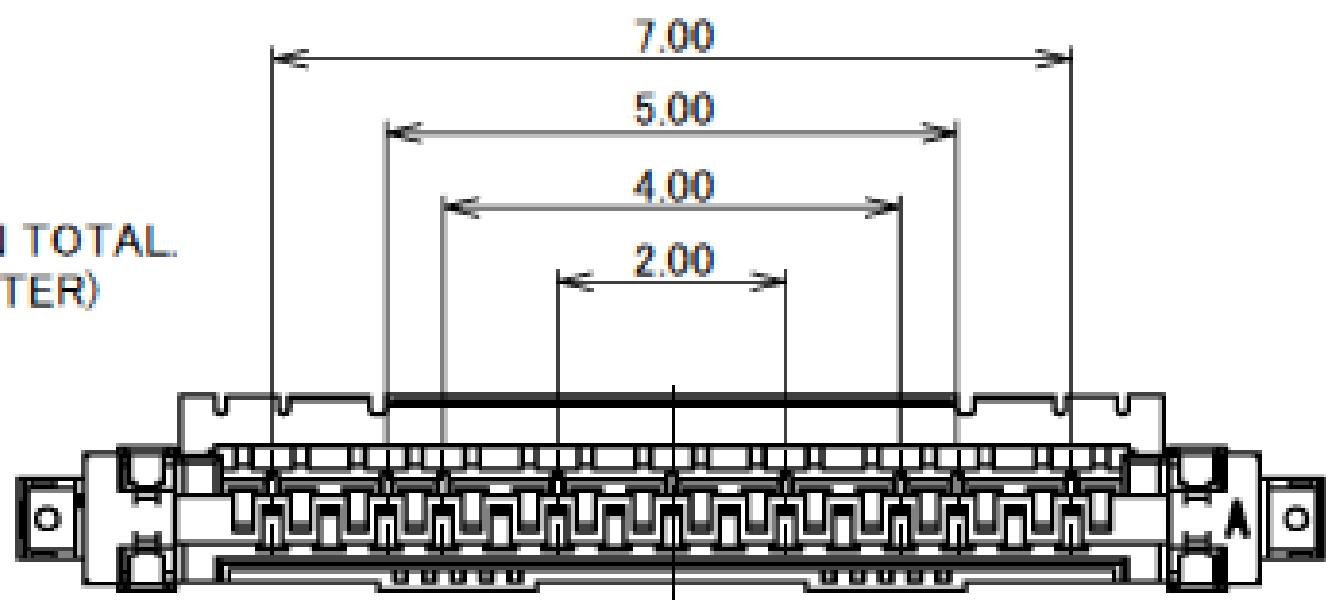
20532-0 ** T-02-1
Pos.



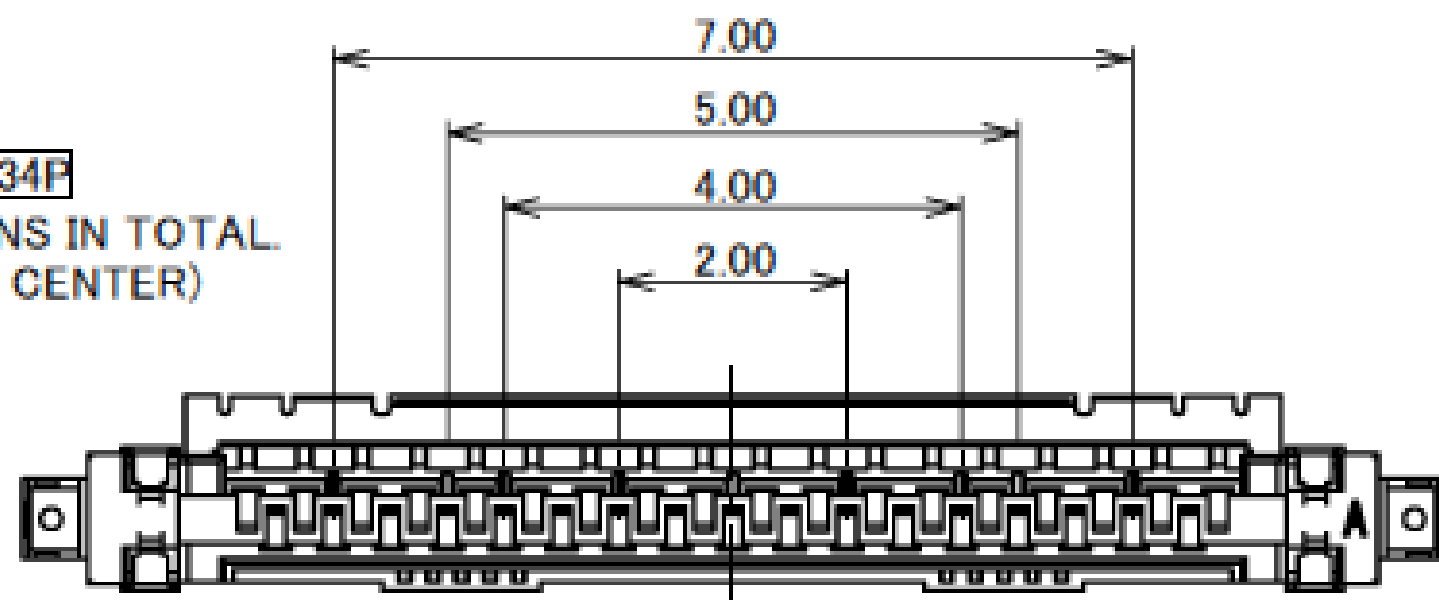
4	SHELL	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
3	CONTACT B	PHOSPHOR BRONZE	Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT A	PHOSPHOR BRONZE	Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0 BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.9

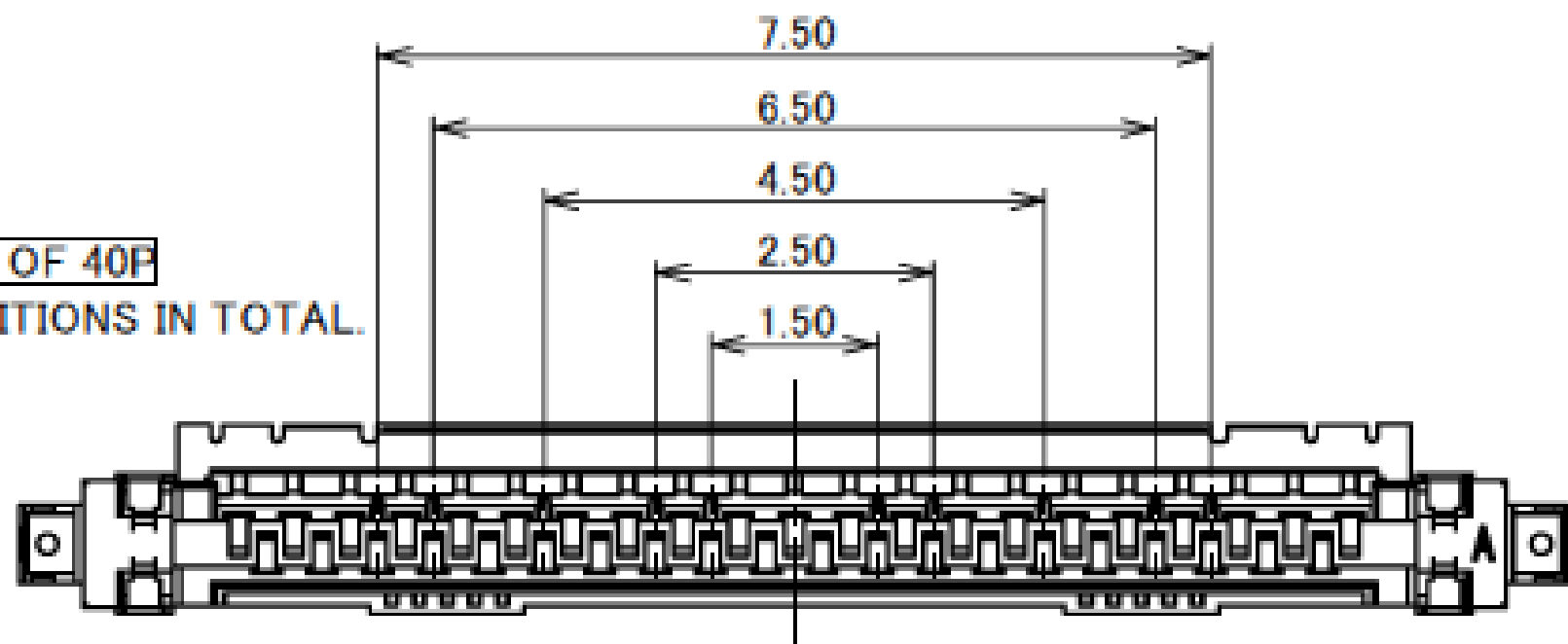
SHAPE OF 30P
9 POSITIONS IN TOTAL
(INCLDING CENTER)



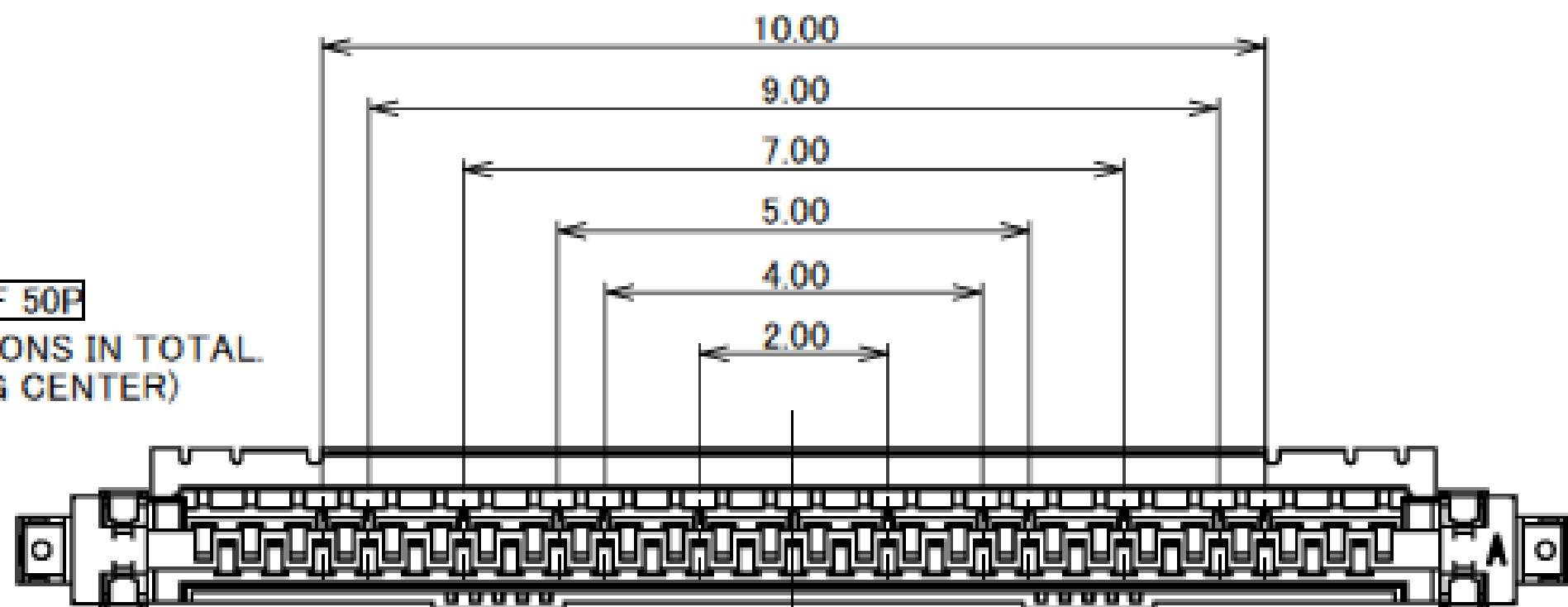
SHAPE OF 34P
9 POSITIONS IN TOTAL
(INCLDING CENTER)



SHAPE OF 40P
10 POSITIONS IN TOTAL



SHAPE OF 50P
13 POSITIONS IN TOTAL
(INCLDING CENTER)

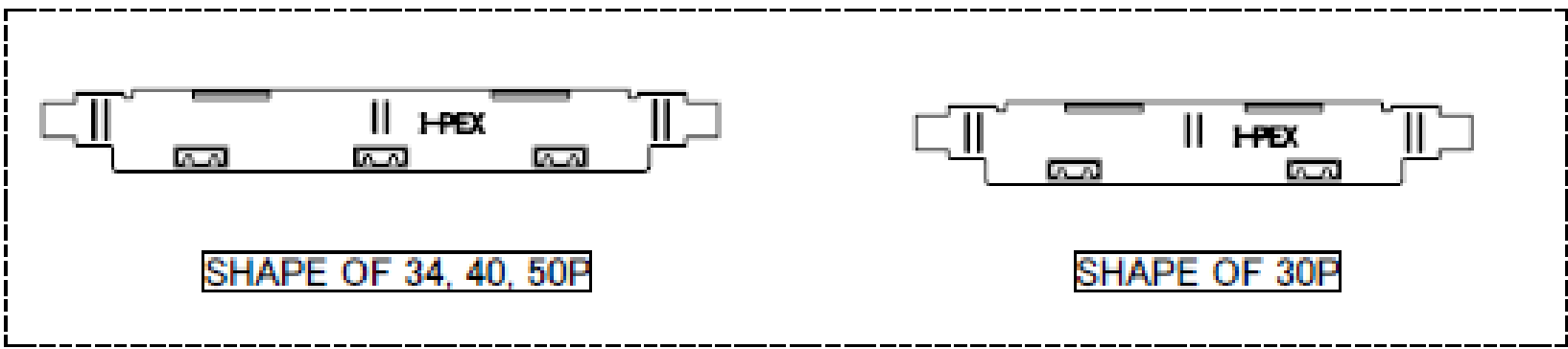
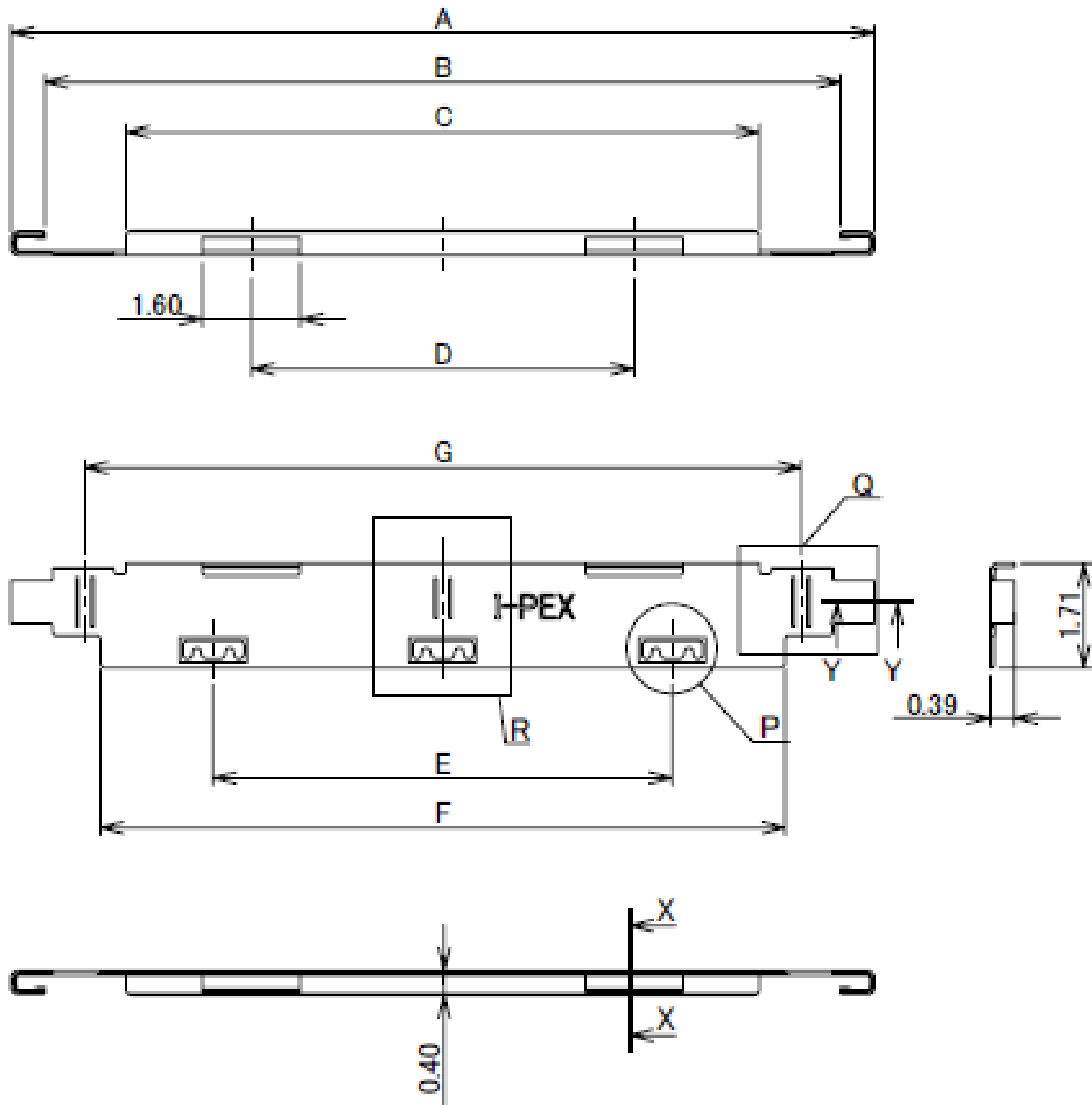


POSITION OF CONVEX(1)

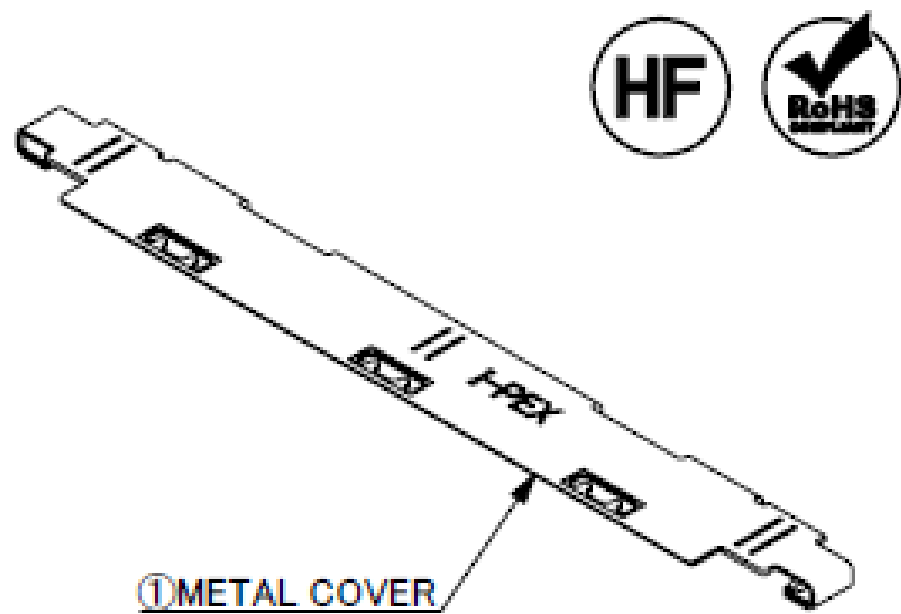
Rev.9

Plug Metal Cover

Recommended P/N		2799-0**1					
PART No.	A	B	C	D	E	F	G
2799-0301	11.60	10.50	7.85	3.75	5.00	8.70	9.20
2799-0341	12.60	11.50	8.85	4.75	6.00	9.70	10.20
2799-0401	14.10	13.00	10.35	6.25	7.50	11.20	11.70
2799-0501	16.60	15.50	12.85	6.25	10.00	13.70	14.20



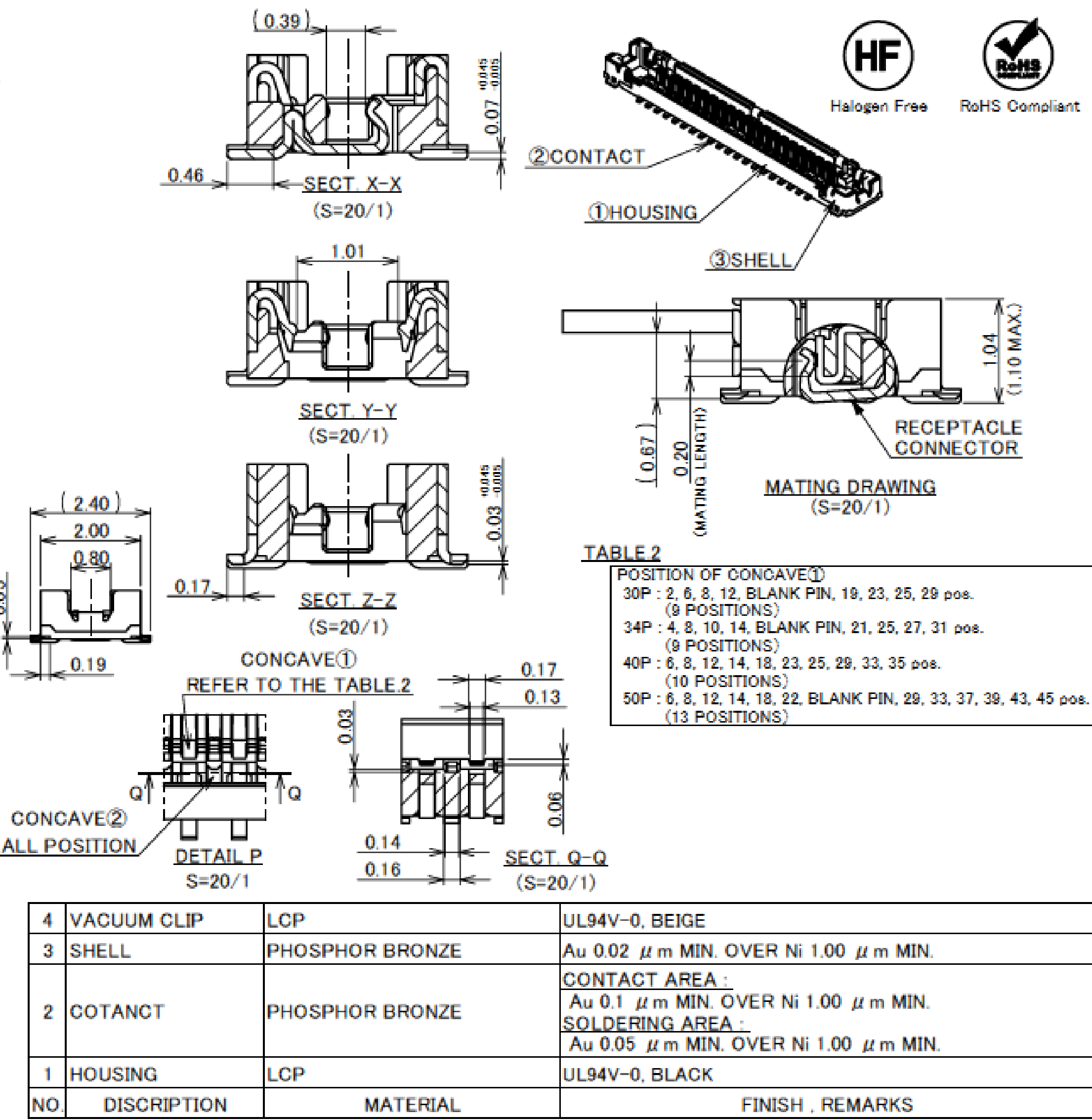
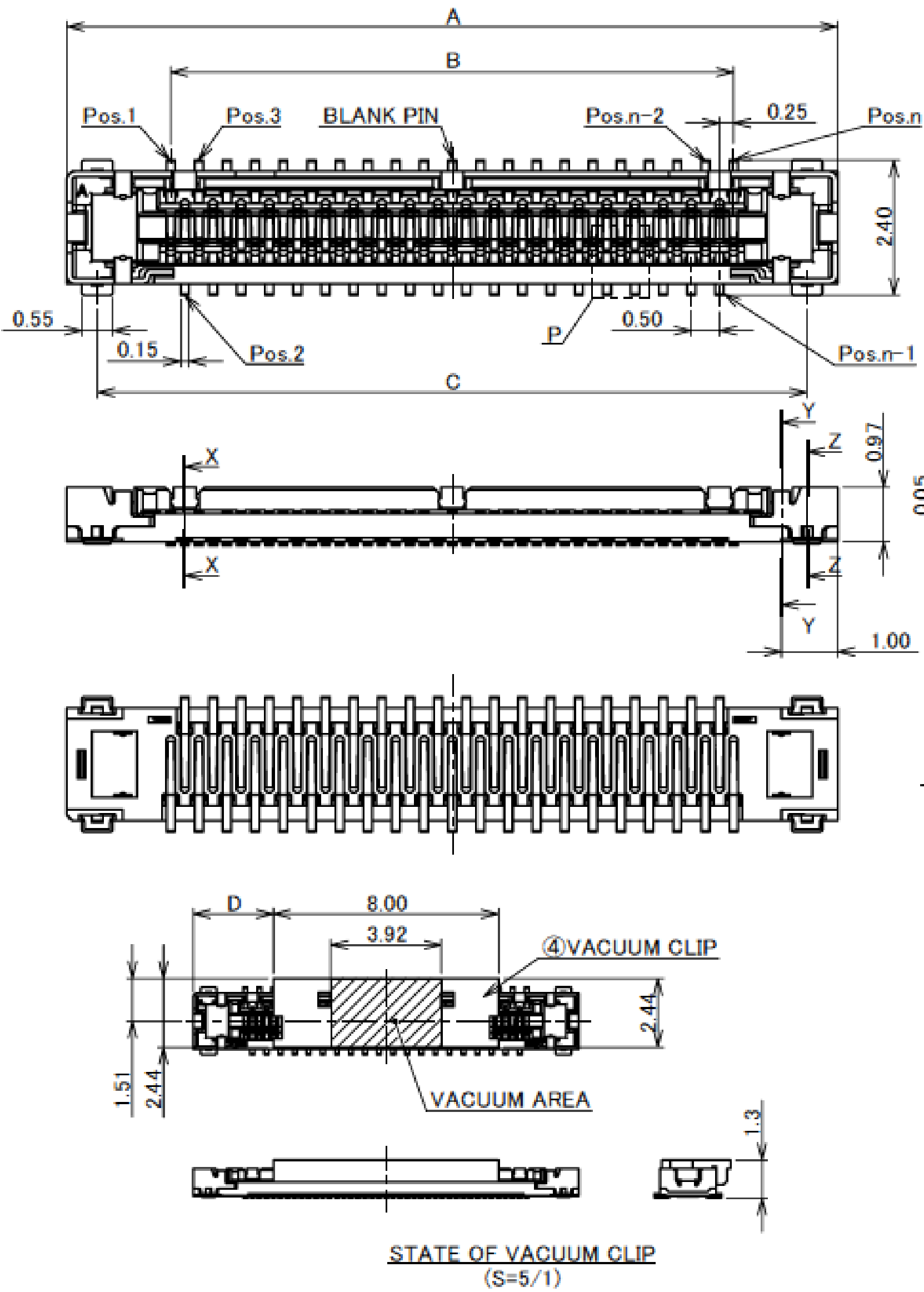
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	METAL COVER	SUS	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.



Rev.9

Receptacle Assembly

RECOMMENDED PART No.		20533-2**E			
PART NO.	Pos.	A	B	C	D
20533-230E	30	11.20	7.50	10.11	1.60
20533-234E	34	12.20	8.50	11.11	2.10
20533-240E	40	13.70	10.00	12.61	2.85
20533-250E	50	16.20	12.50	15.11	4.10

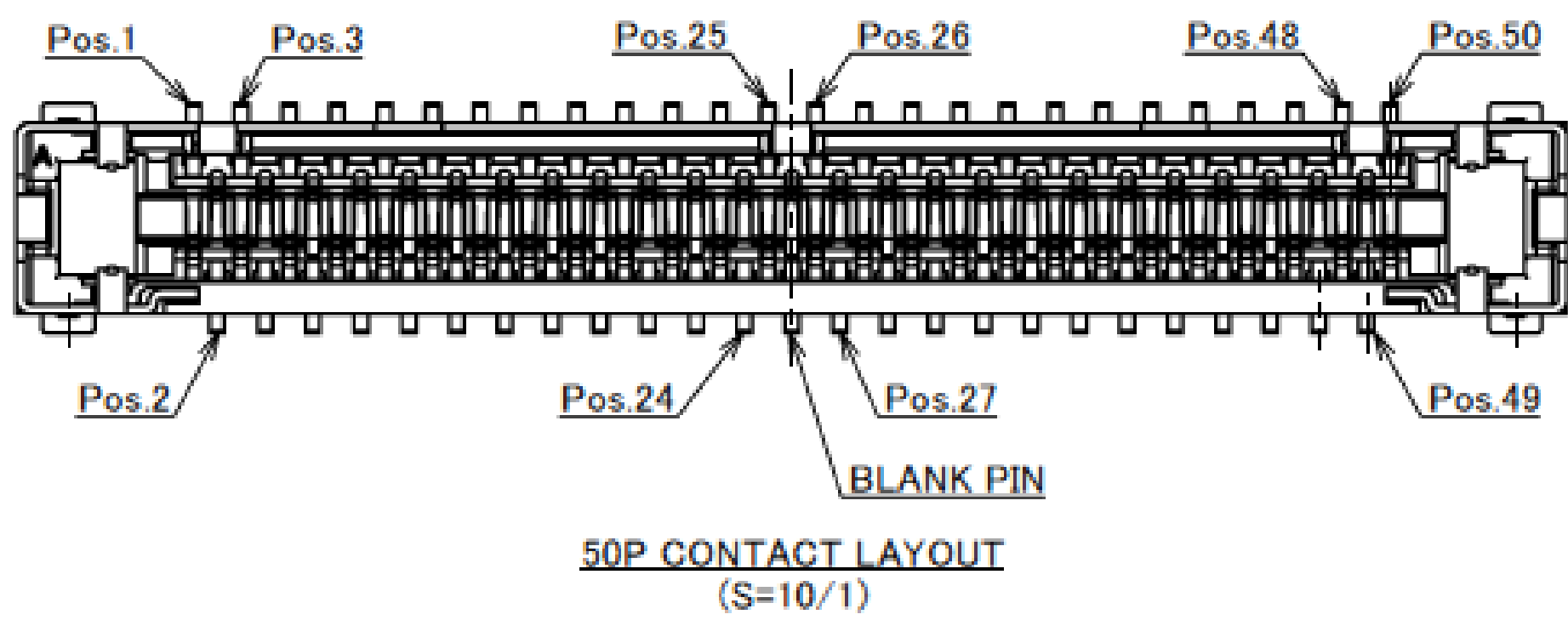
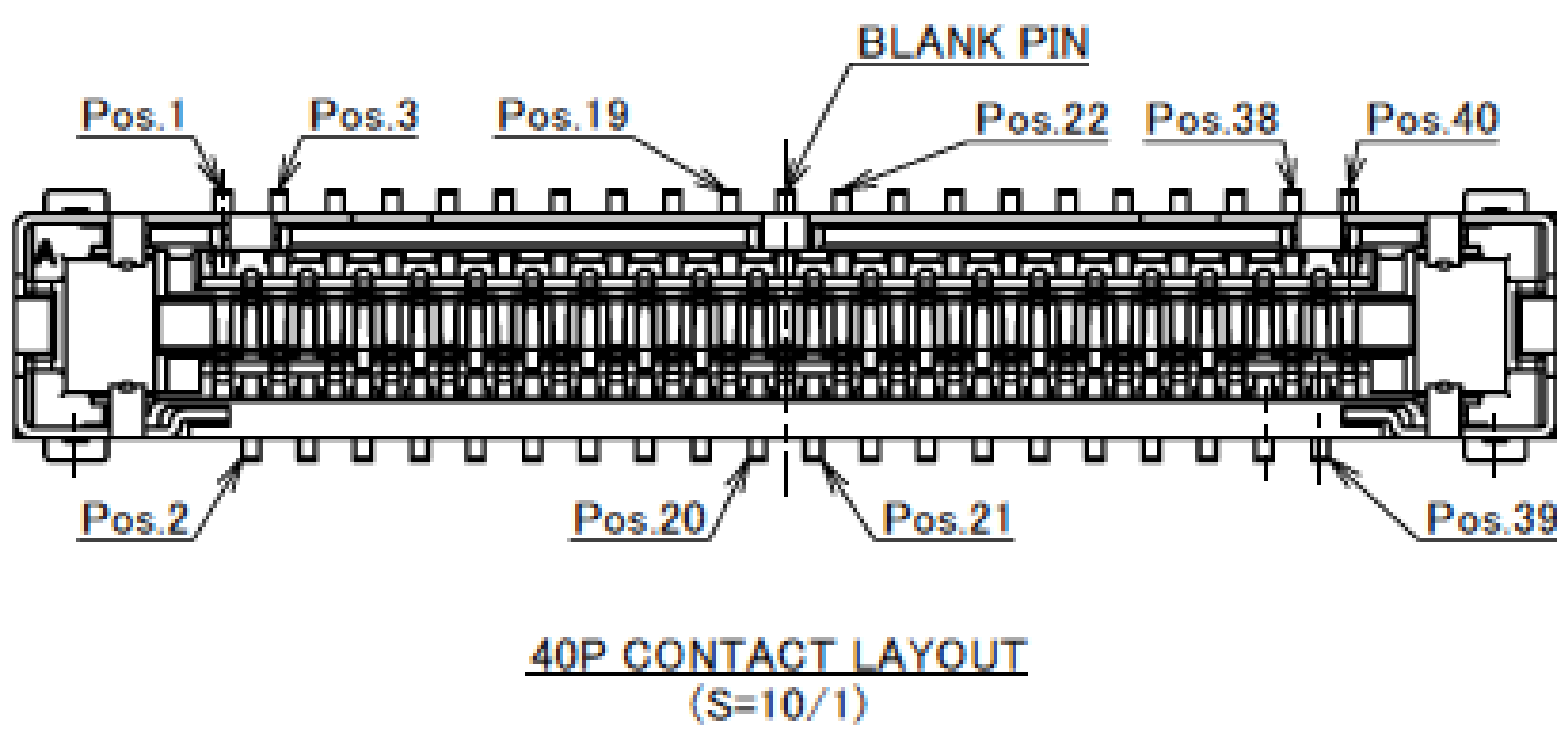
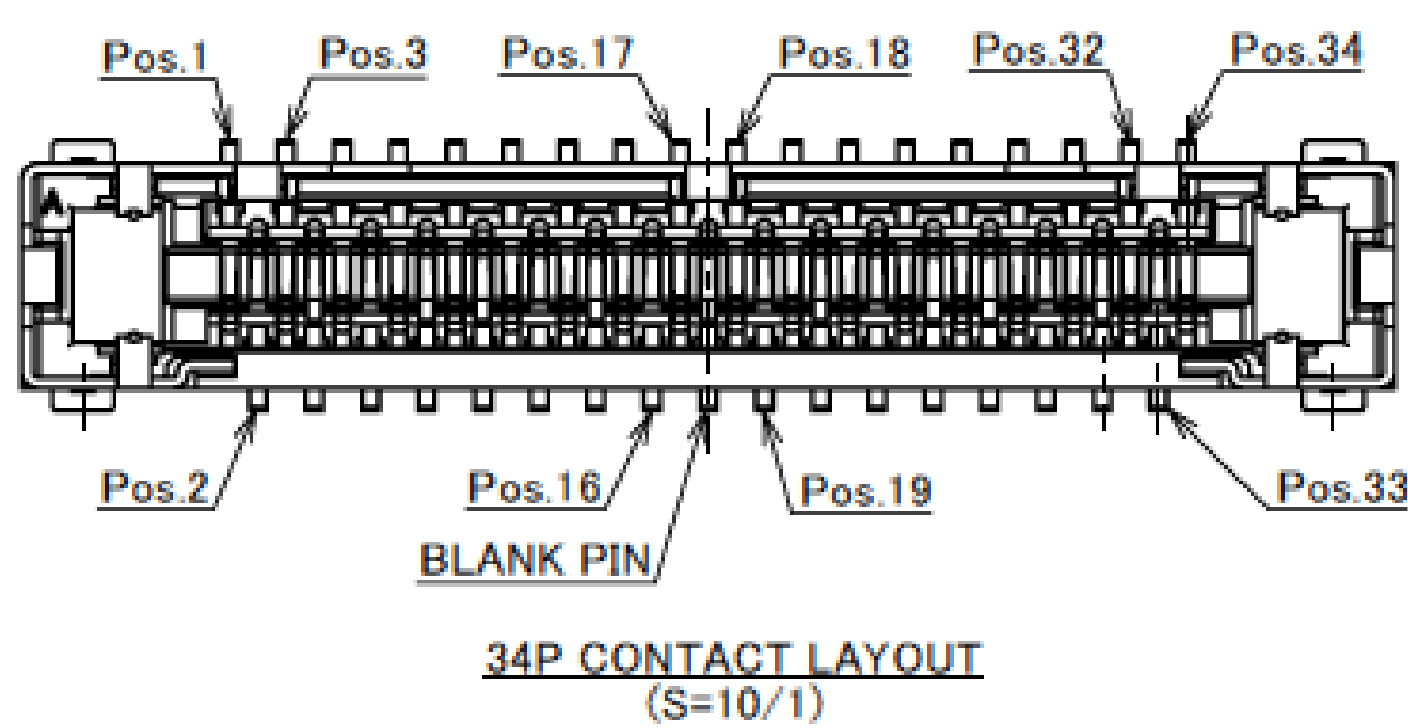
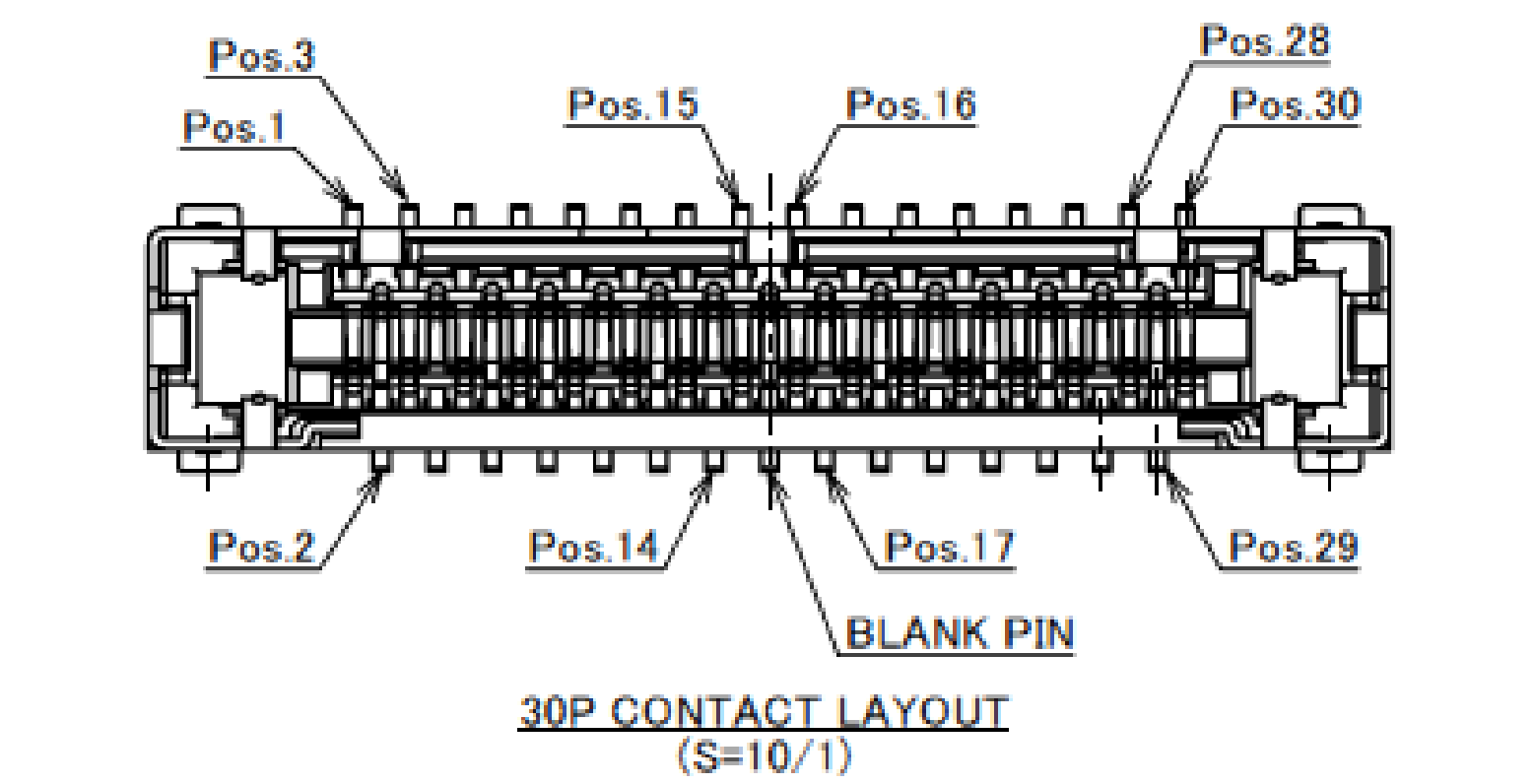


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	VACUUM CLIP	LCP	UL94V-0, BEIGE
3	SHELL	PHOSPHOR BRONZE	Au 0.02 μ m MIN. OVER Ni 1.00 μ m MIN.
2	COTANCT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.17

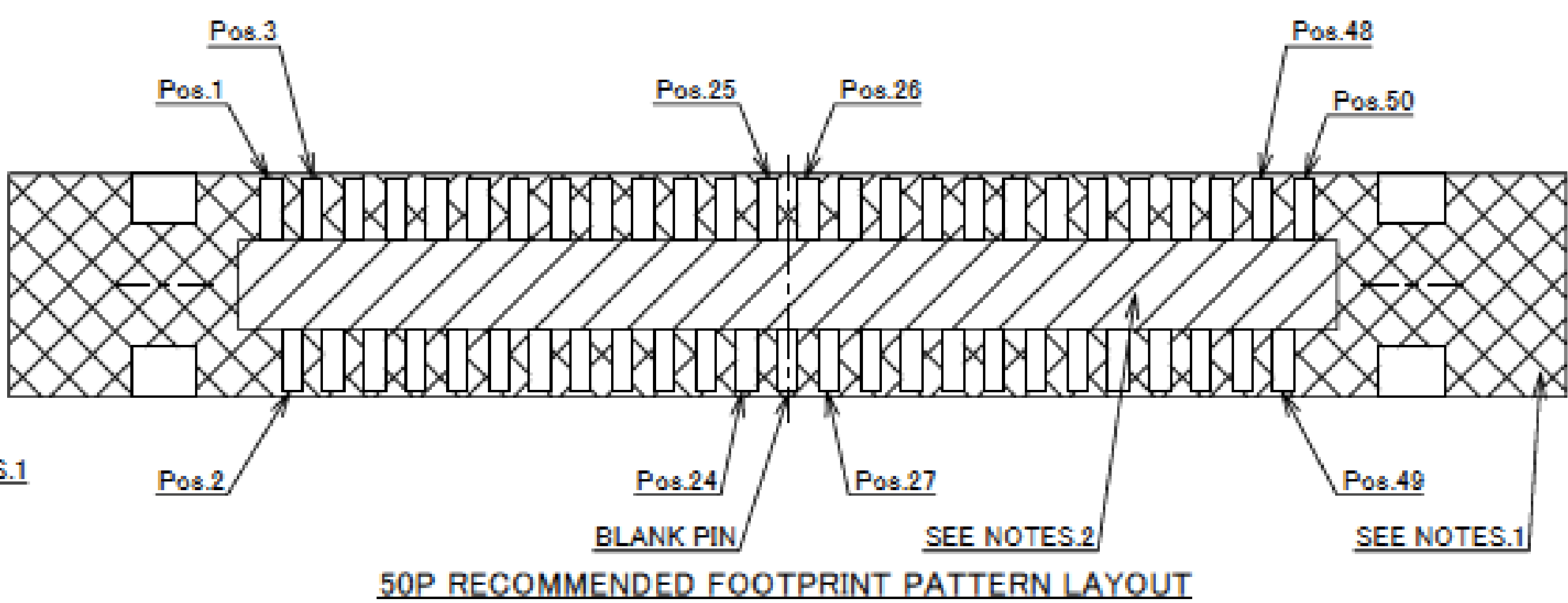
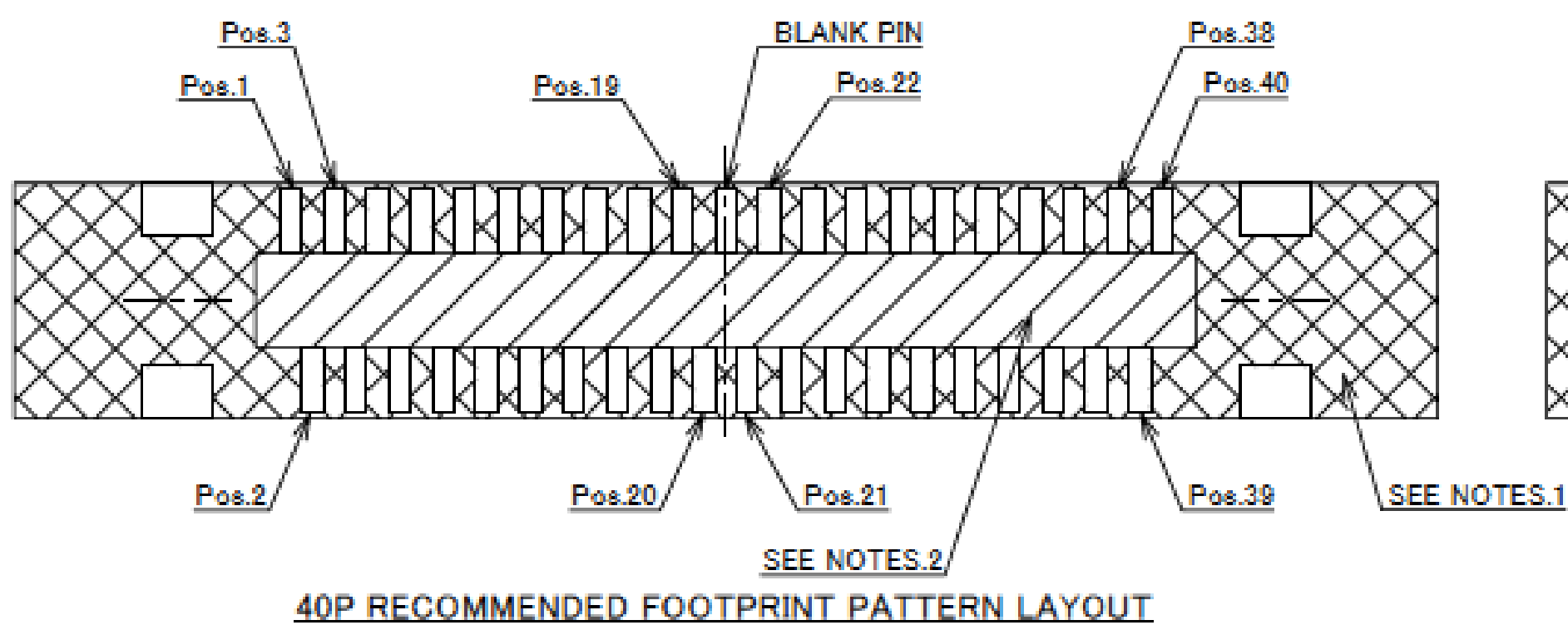
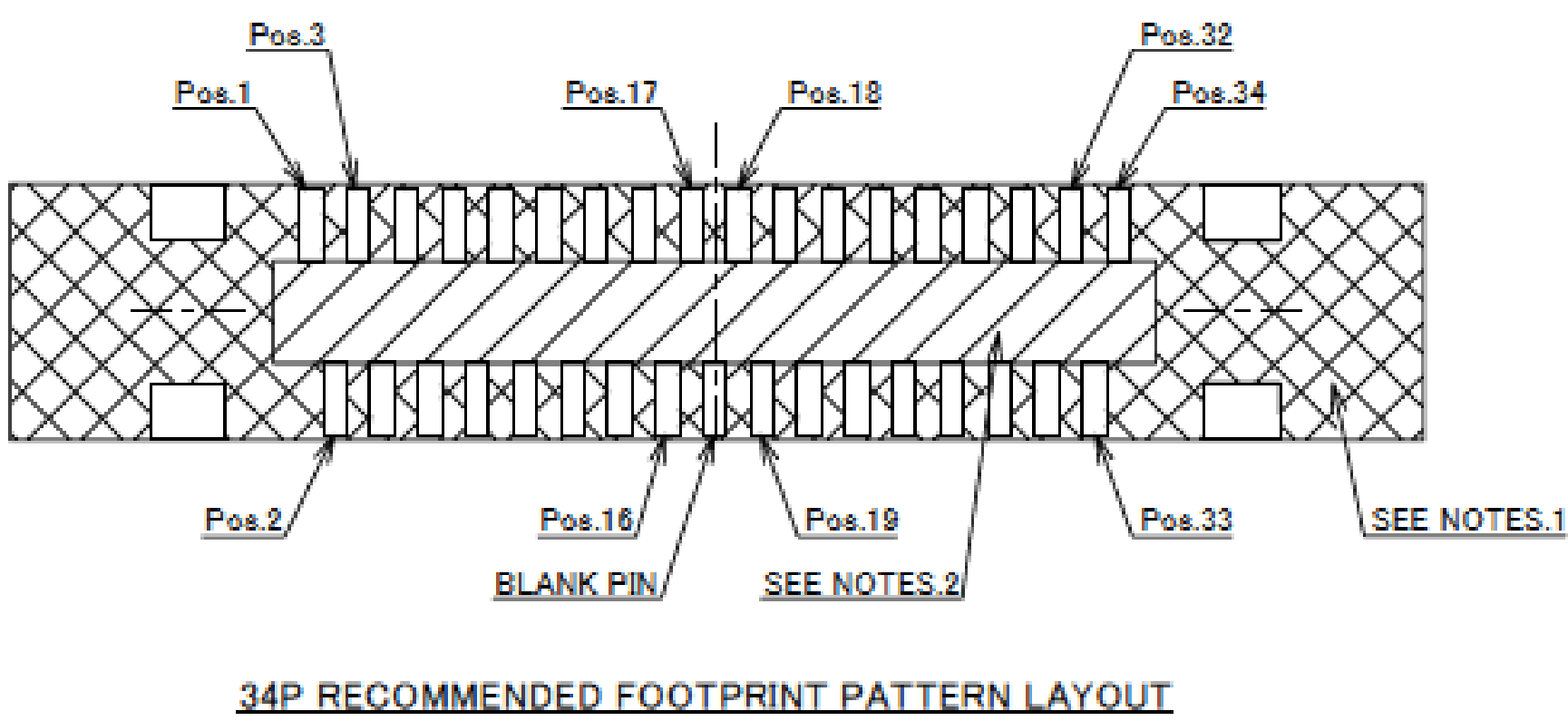
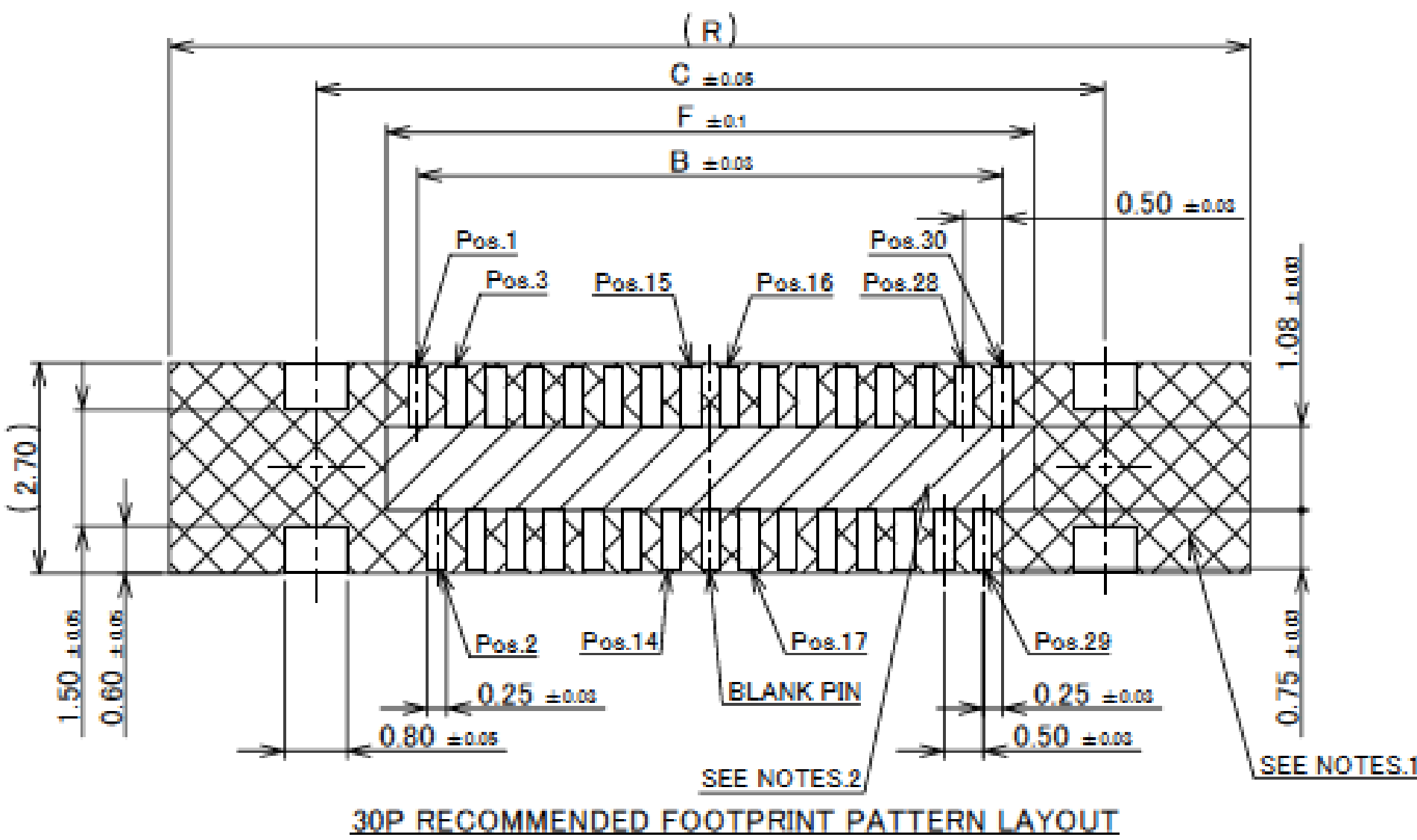
Receptacle Assembly

PART No.	Pos
20533-230E	30
20533-234E	34
20533-240E	40
20533-250E	50



Rev.17

PART No.	Pos	B	C	F	R
20533-230E	30	7.50	10.11	8.30	13.85
20533-234E	34	8.50	11.11	9.30	14.85
20533-240E	40	10.00	12.61	10.80	16.35
20533-250E	50	12.50	15.11	13.30	18.85

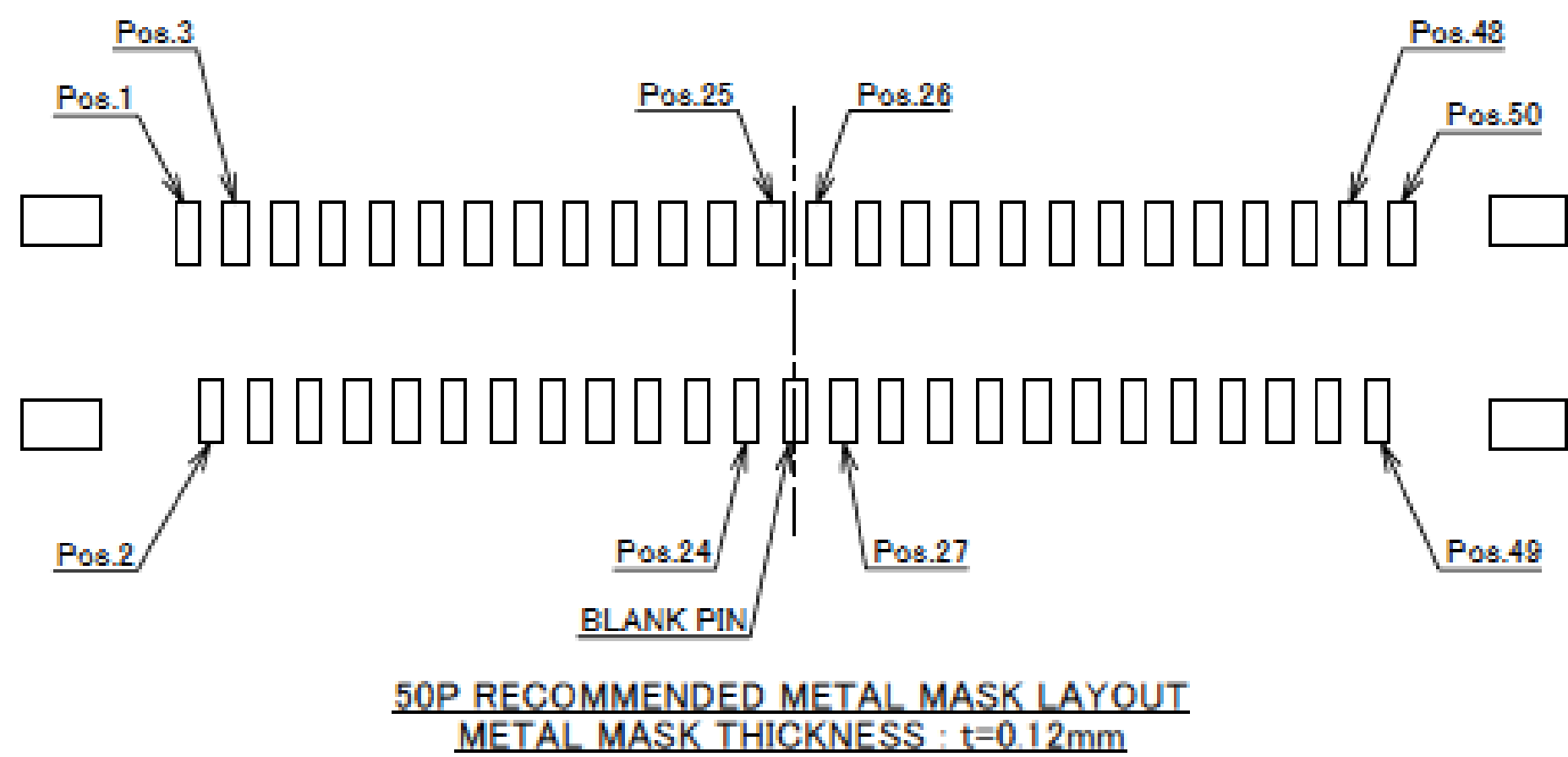
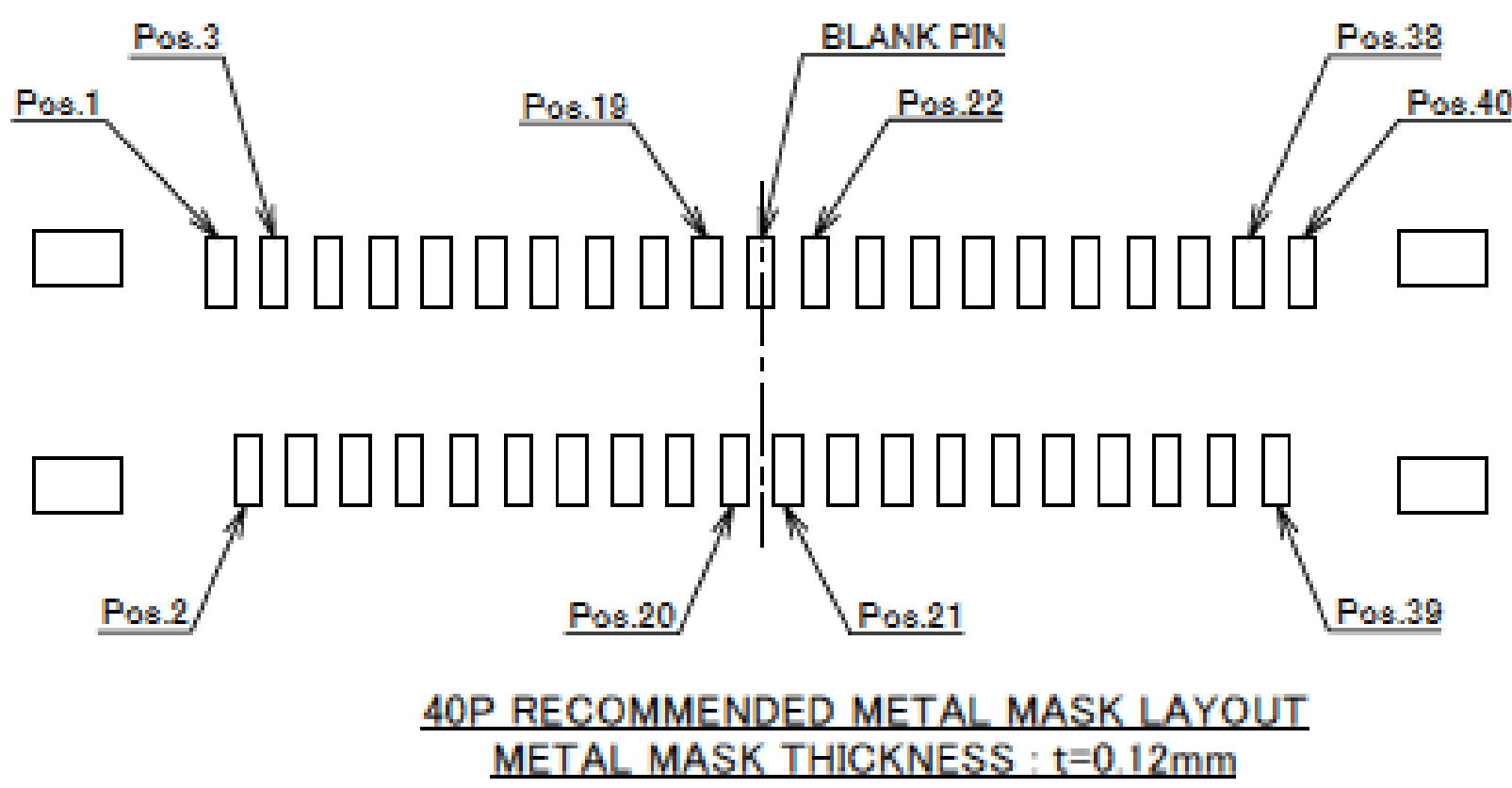
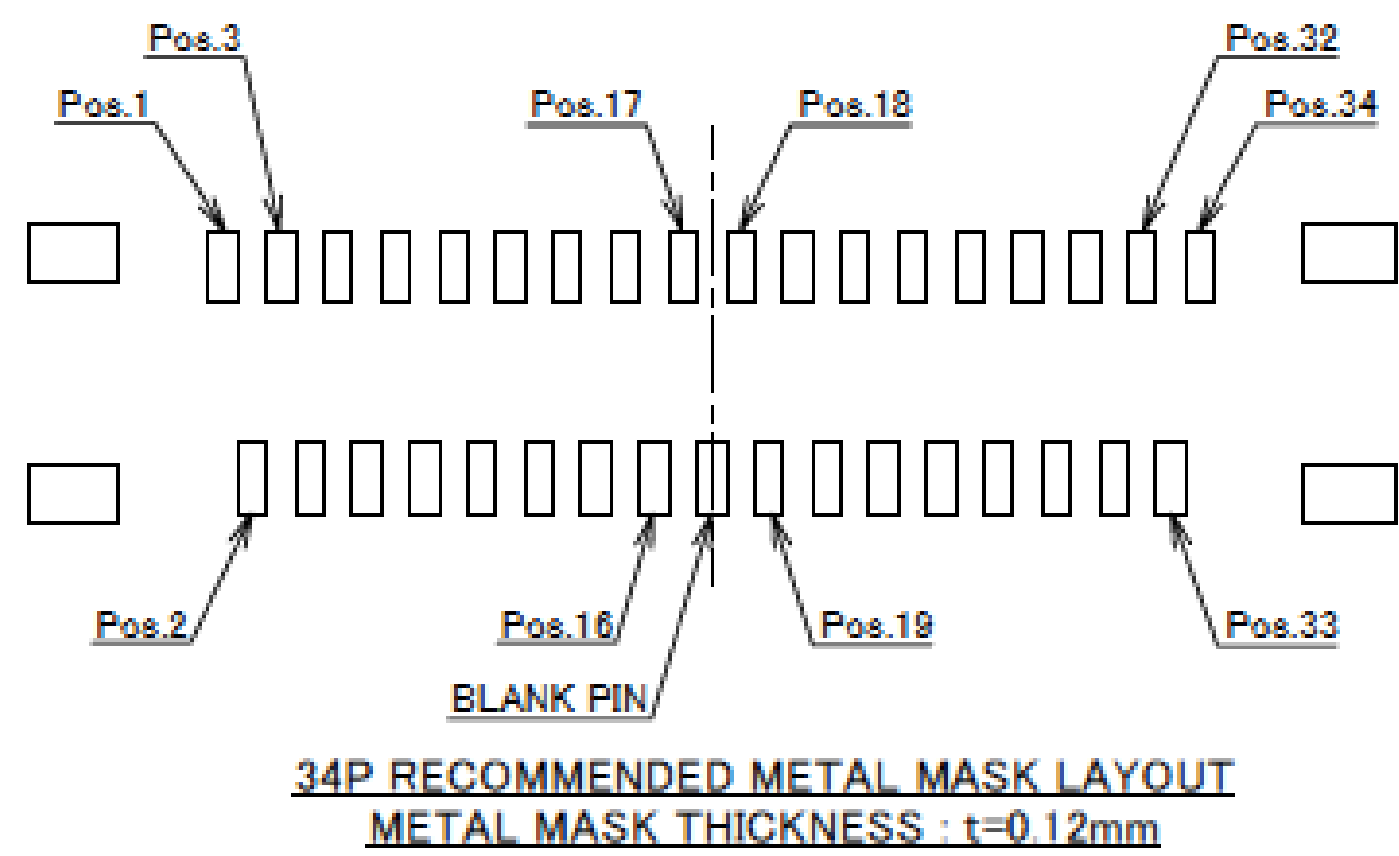
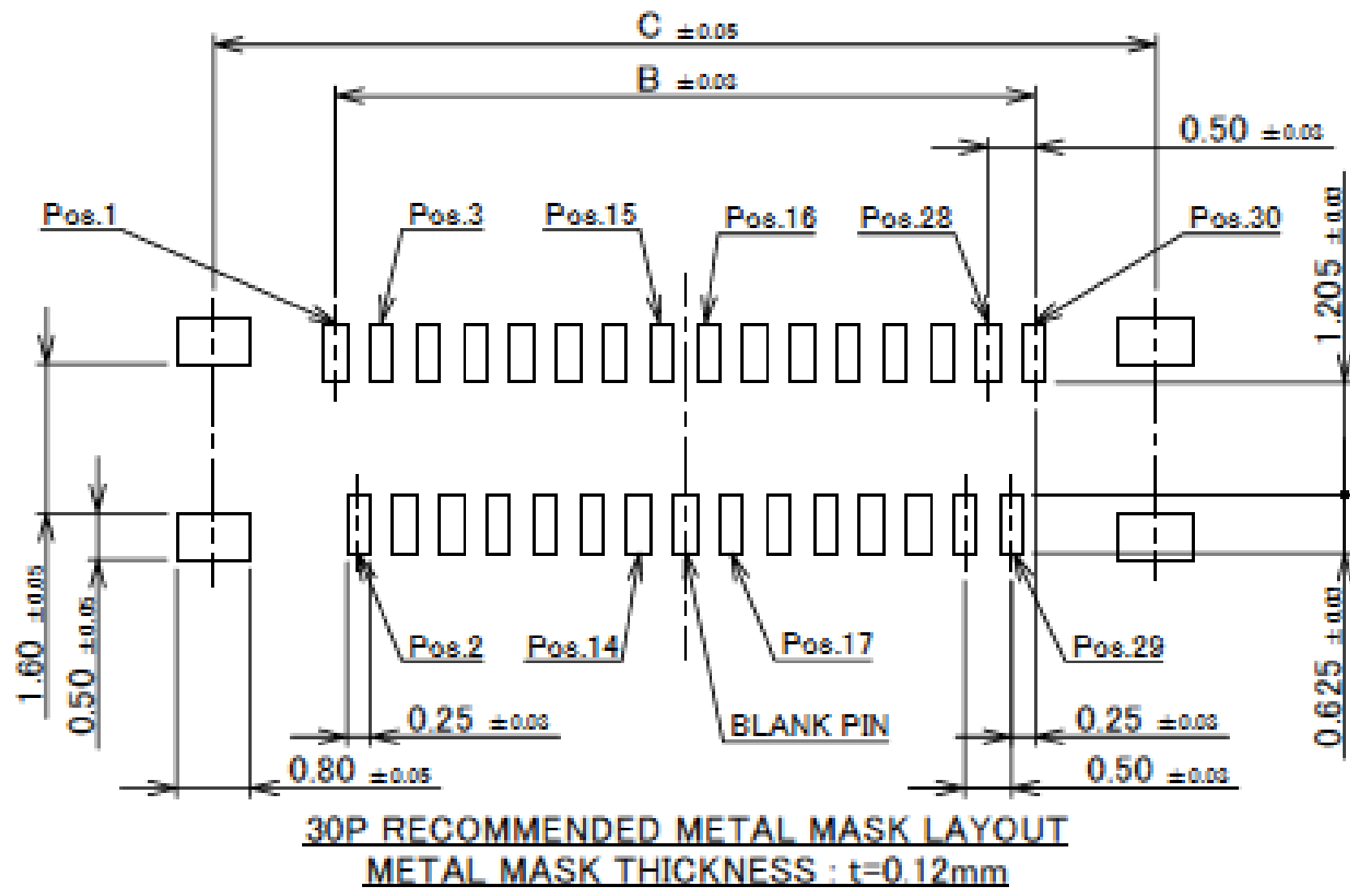


NOTES.
1. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

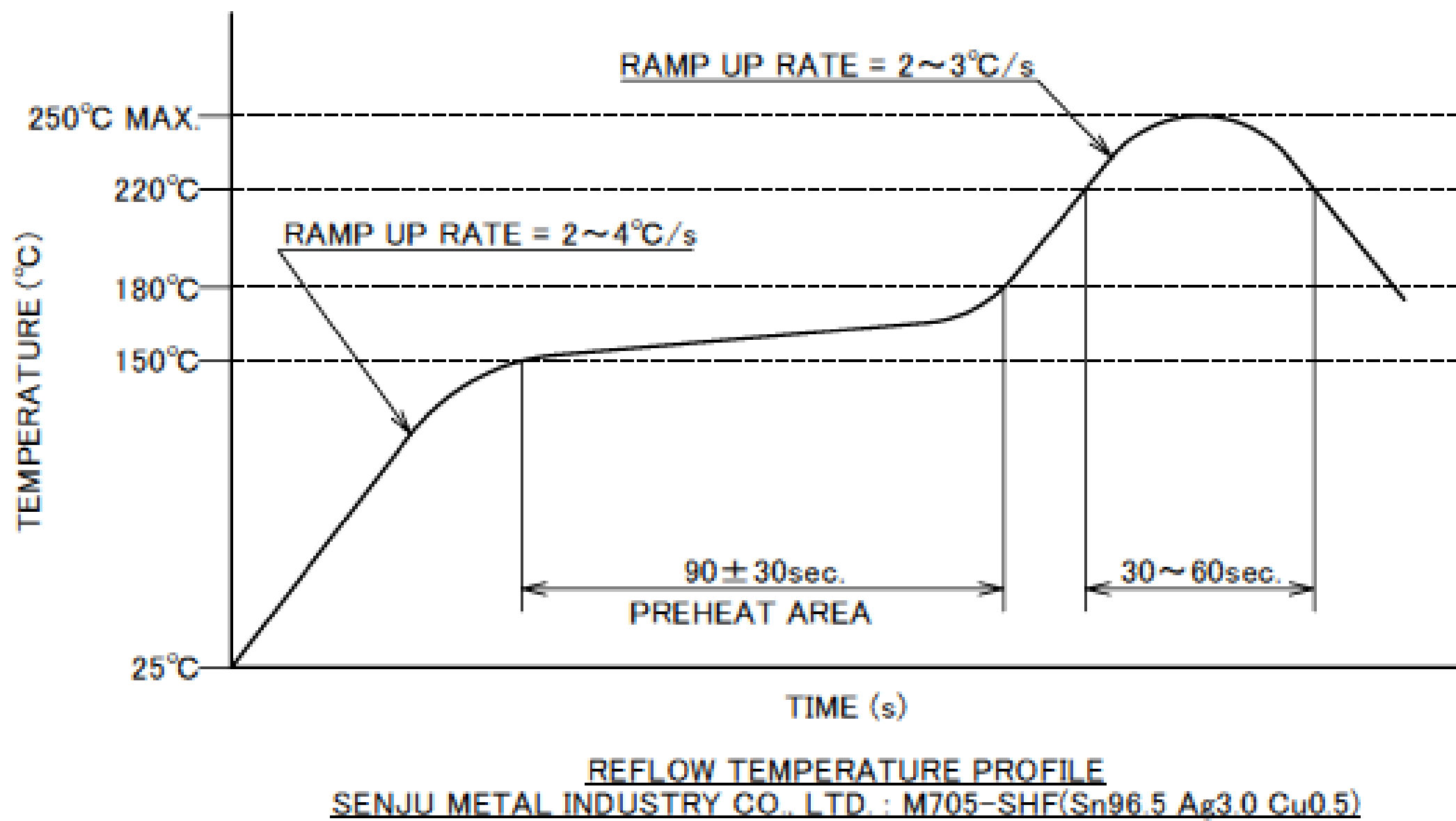
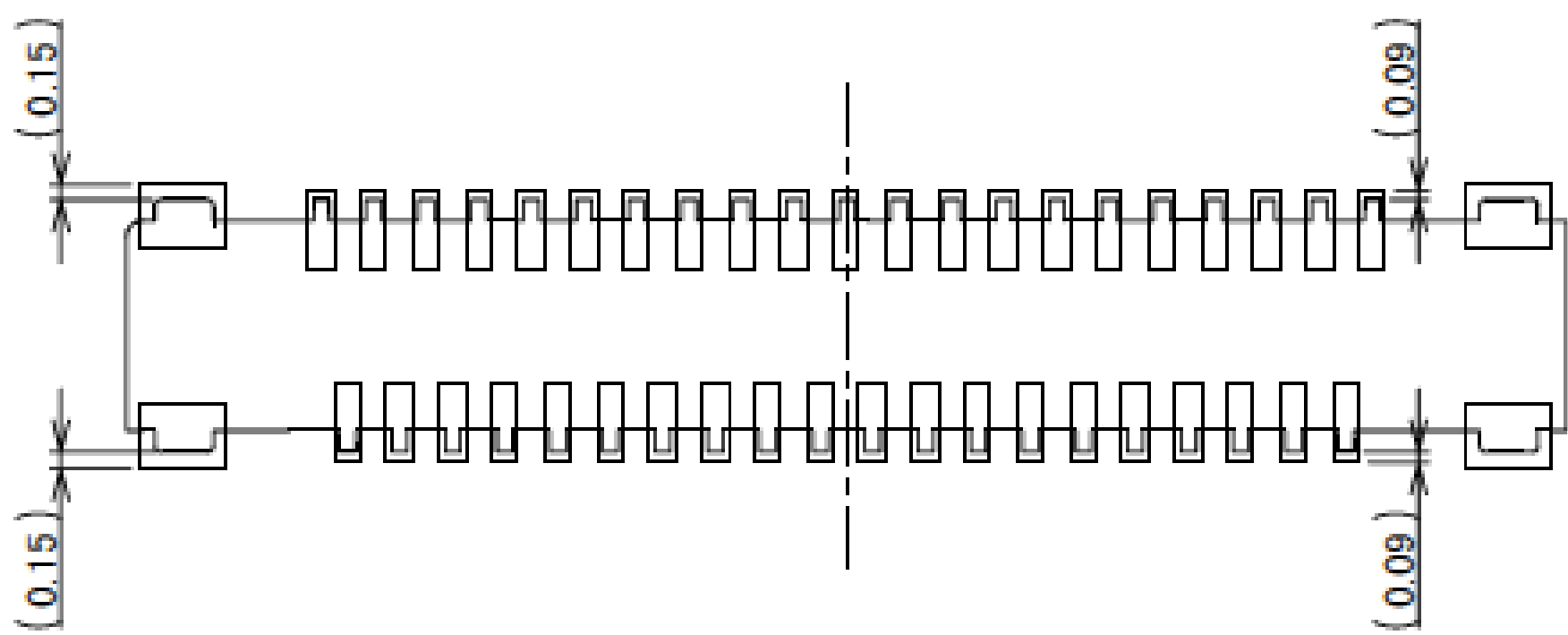
Rev.17

Receptacle Assembly

PART No.	Pos	B	C
20533-230E	30	7.50	10.11
20533-234E	34	8.50	11.11
20533-240E	40	10.00	12.61
20533-250E	50	12.50	15.11



Rev.17



Rev.17

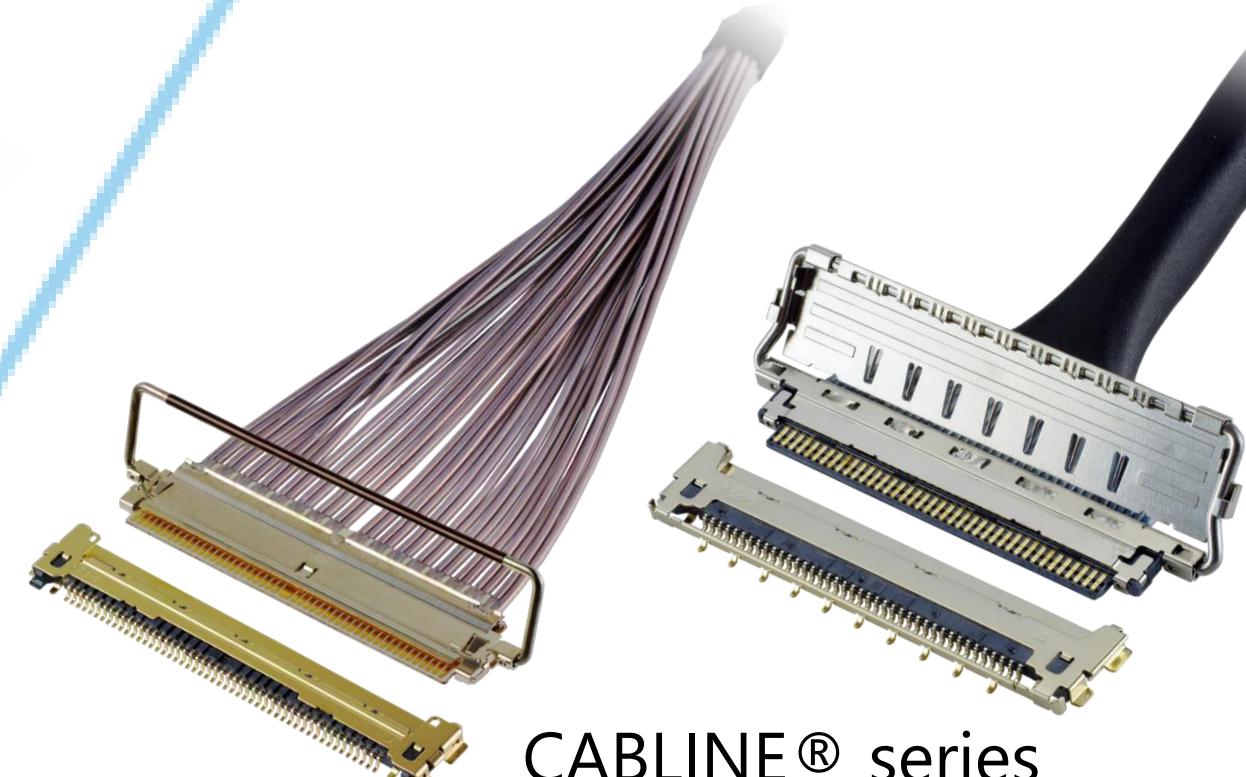
Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 ,46 DISCRETE WIRE : AWG#39
RATING VOLTAGE	50V 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)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 6 CONTACTS) 0.15A AC/DC [AWG#44] 0.10A AC/DC [AWG#46] ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURERISE MAY AFFECTEDBY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	75% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : ≦40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : ≦40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 26.4N MAX. 34P : 27.6N MAX. 40P : 29.4N MAX. 50P : 32.4N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.5N MIN. 34P : 1.9N MIN. 40P : 2.5N MIN. 50P : 3.5N MIN.
CABLE RETENTION FORCE	30P : 15.0N MIN. 34P : 17.0N MIN. 40P : 20.0N MIN. 50P : 25.0N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2887
TEST REPORT	TR-24028
INSTRUCTION MANUAL	HIM-10001
PACKING STANDARD	300-874
APPEARANCE CRITERIA No.	QLS-A***

Custom Connectors Available

RF Connectors

MHF® series



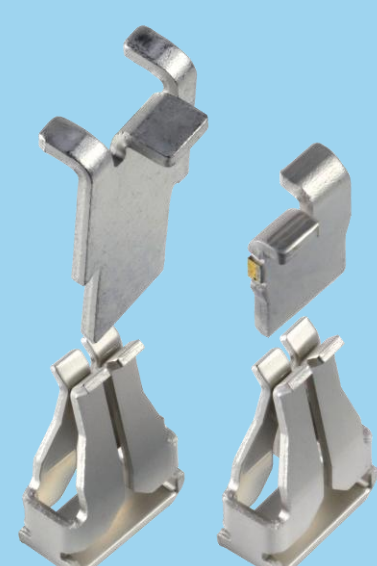
CABLINE® series

Micro-Coaxial/Twinaxial Connectors

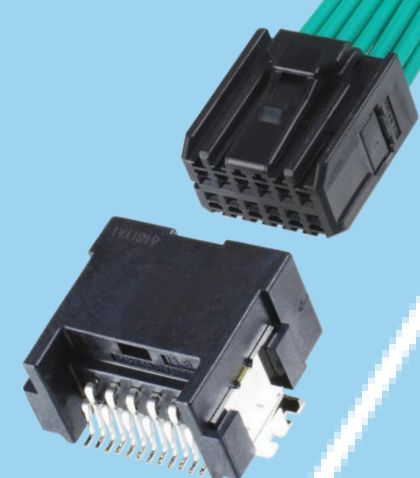


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



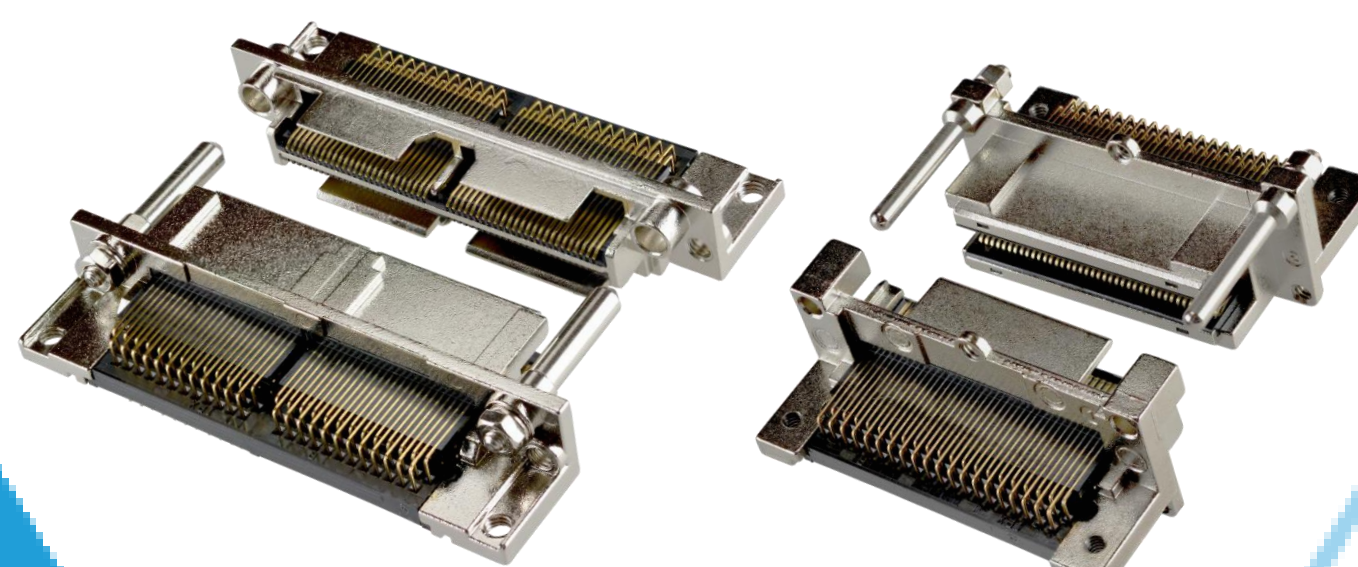
NOVASTACK® series



Board-to-Board Connectors

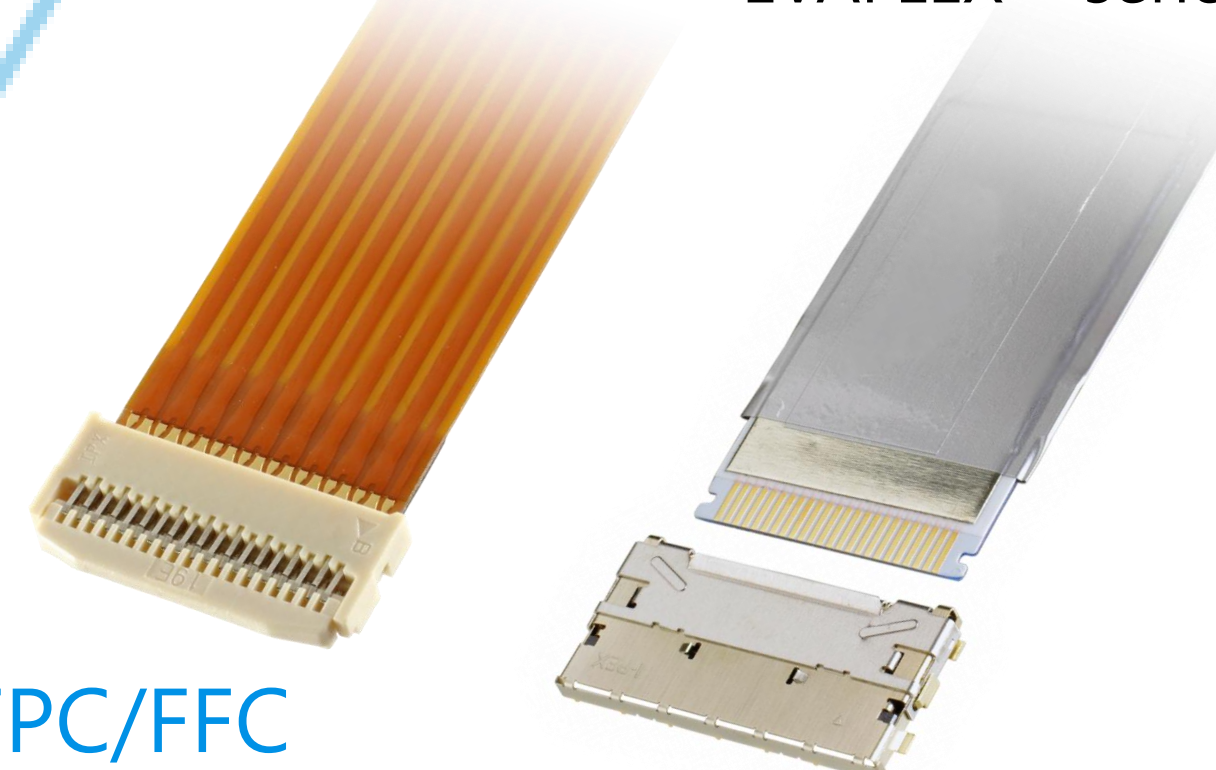


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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