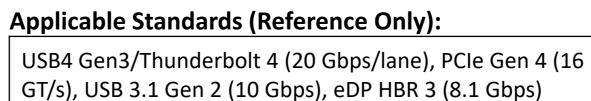
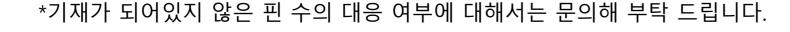
# CABLINE®-CAL

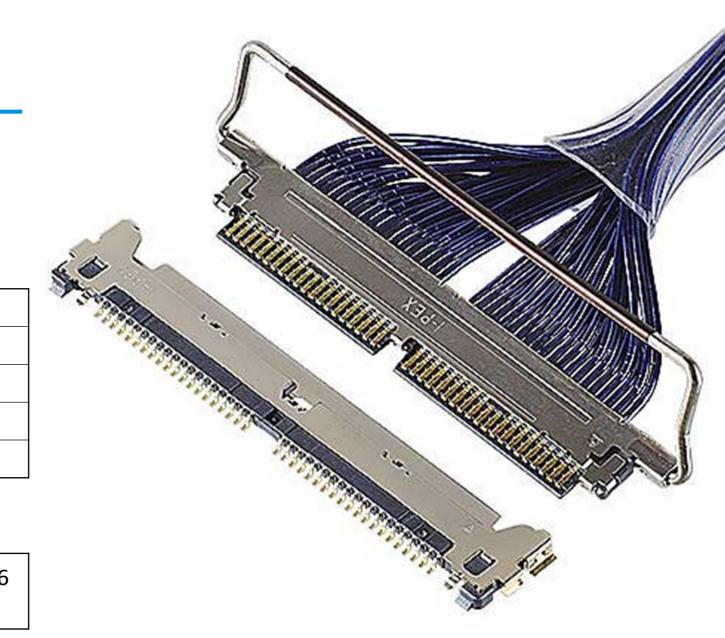
저배(높이 = 0.7 mm), 고속 전송 대응(20+ Gbps/lane), 기계식 Lock 기능 포함, 0.4 mm Pitch, 수평 결합 타입 세선 동축 커넥터

	Product Specifications:							
	Mating	type	Horizontal					
	Board Pitch (mm)		0.4					
	Wiping Length (mm)		0.4					
		Height	0.80 Max					
	Mated size (mm)	Width	Formula: 10-20p: 6.85 +(0.4*?p)					
			Formula: 22-40p: 8.05 +(0.4*?p)	_				
		Depth	5.5	F				
	Pin Counts	Range	Up to 40					
		Available	30, 40					

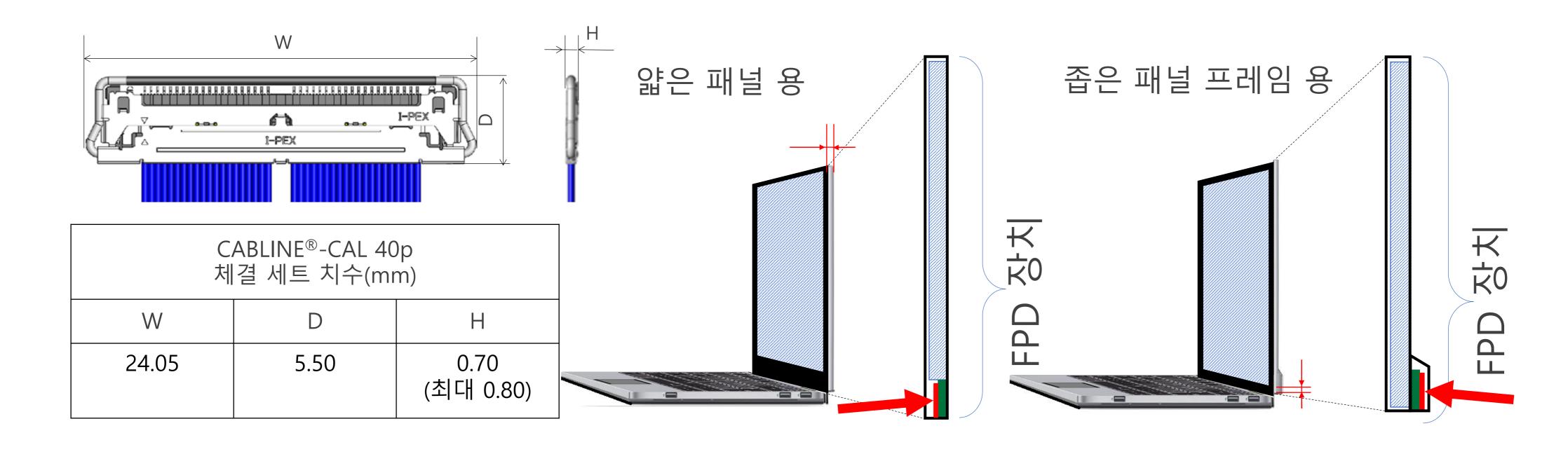
Applicable Cable Size:							
Maximum O.D. (mm)	0.4						
Micro-Coaxial	45 ohm: #38 or smaller						
for Signal (AWG)	50 ohm: #40 or smaller						
Twinax (AWG)	-						
Discrete (AWG)	#34 or smaller						







#### > 한정된 커넥터 실장 공간에 대응하는 초박형 설계



## USB4 Gen3/Thunderbolt 4 (20Gbps/lane)의 고속 전송 내부 접속에 최적

USB4 Gen3/Thunderbolt 4 (20 Gbps/lane)

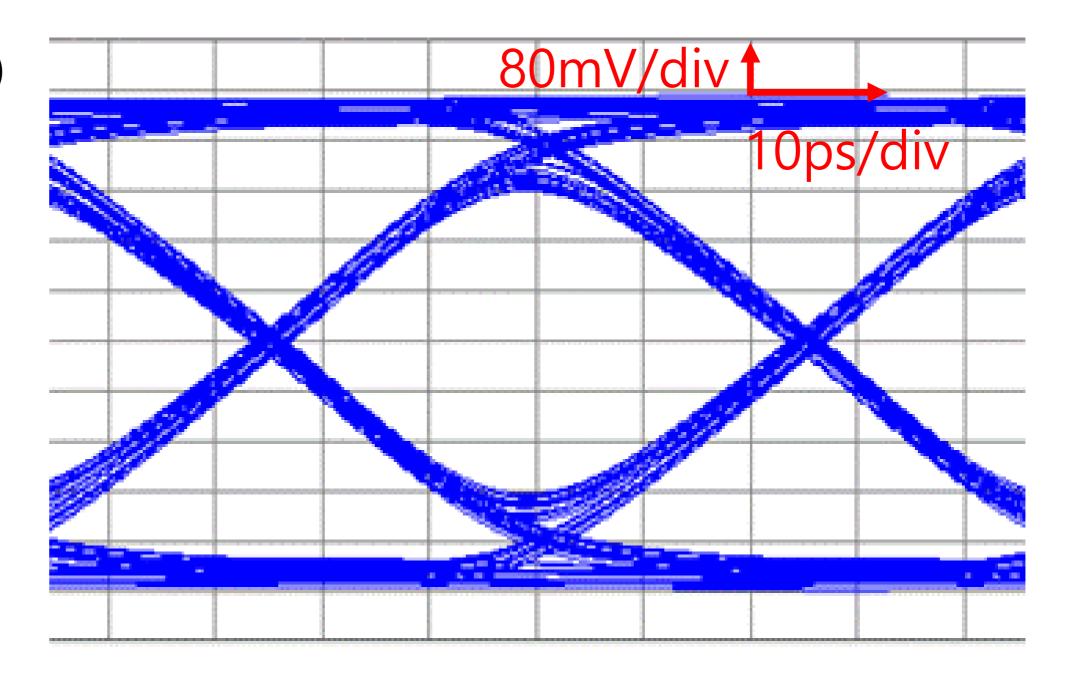
아이 패턴(차동)

비트 전송률: 20Gbps

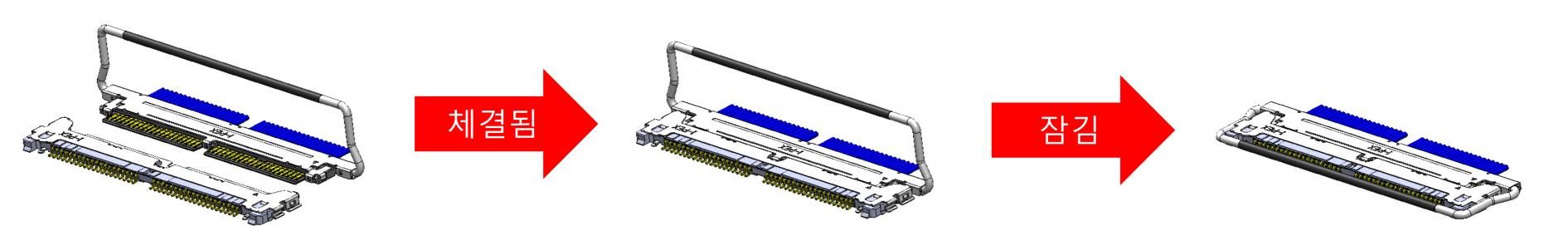
상승 시간: 30ps(10-90%)

입력 전압: 800mVp-p

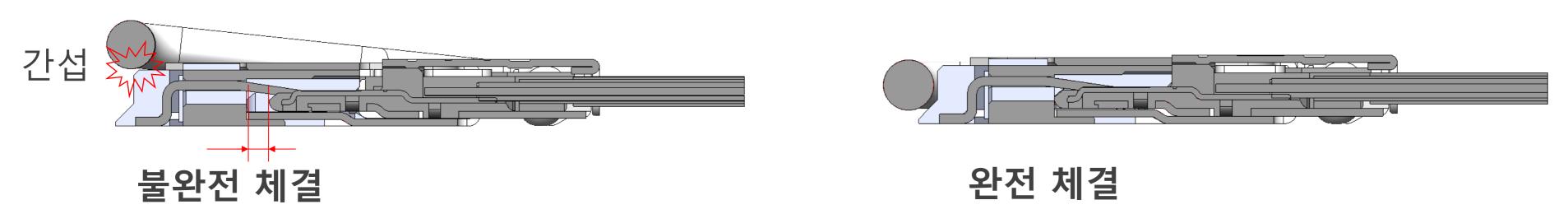
\*자세한 테스트 정보는 I-PEX Connectors 에 문의하십시오.



# 기계식 Locking bar에 의한 불완전 결합 방지와 Plug 이탈 방지



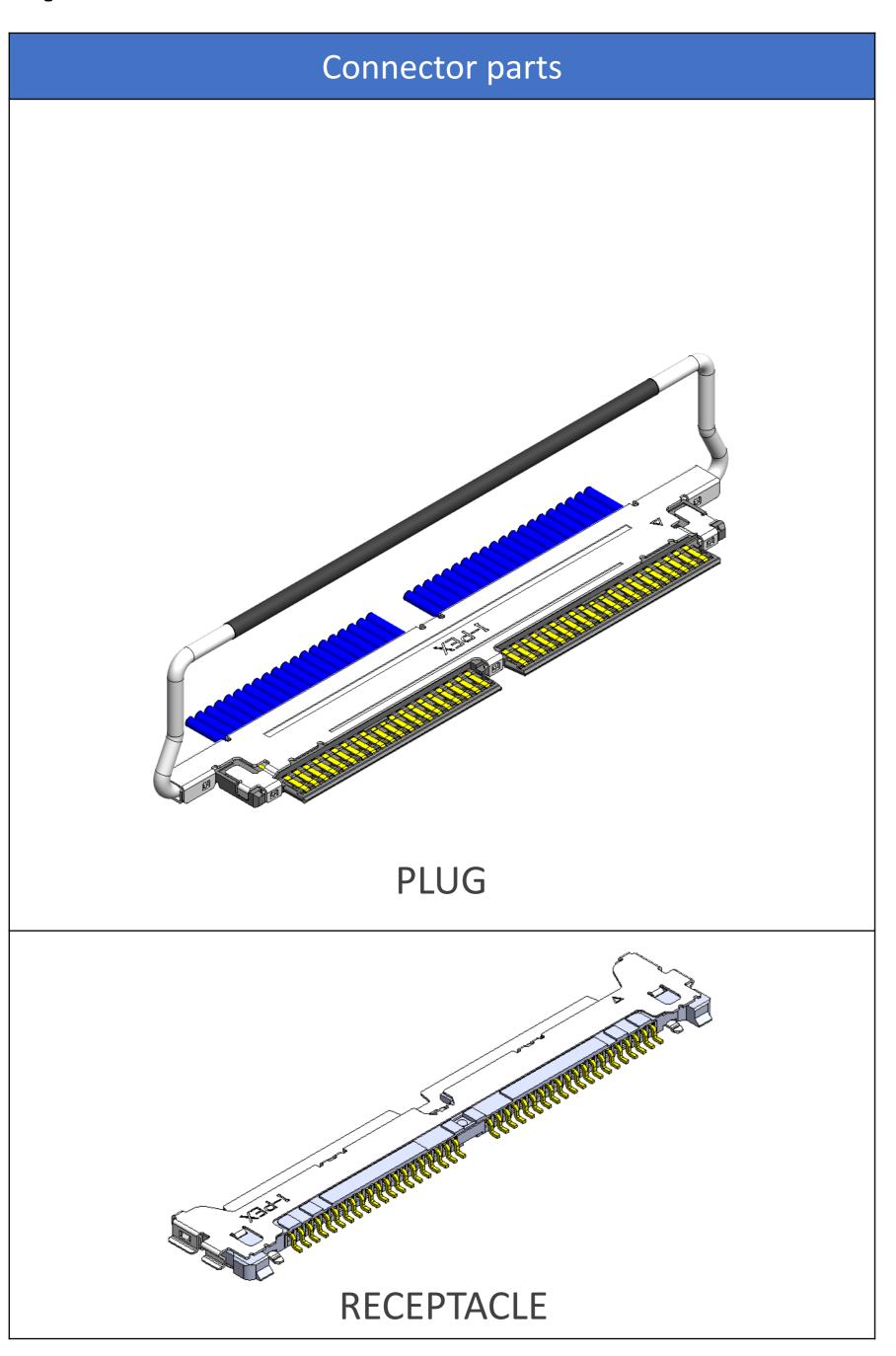
기계식 잠금 바는 플러그가 리셉터클에 완전히 체결된 경우에만 잠글 수 있습니다.

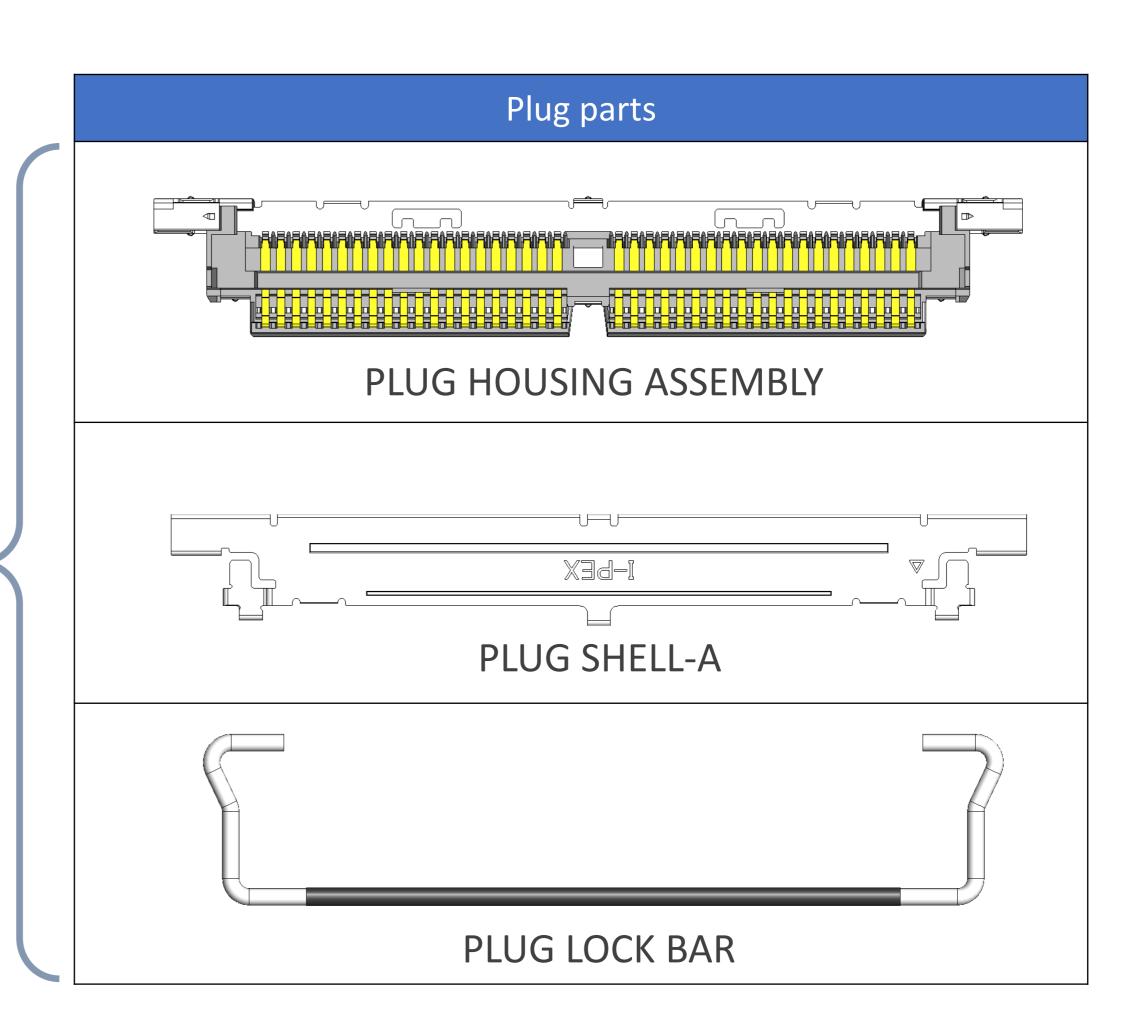




# Component Parts Details

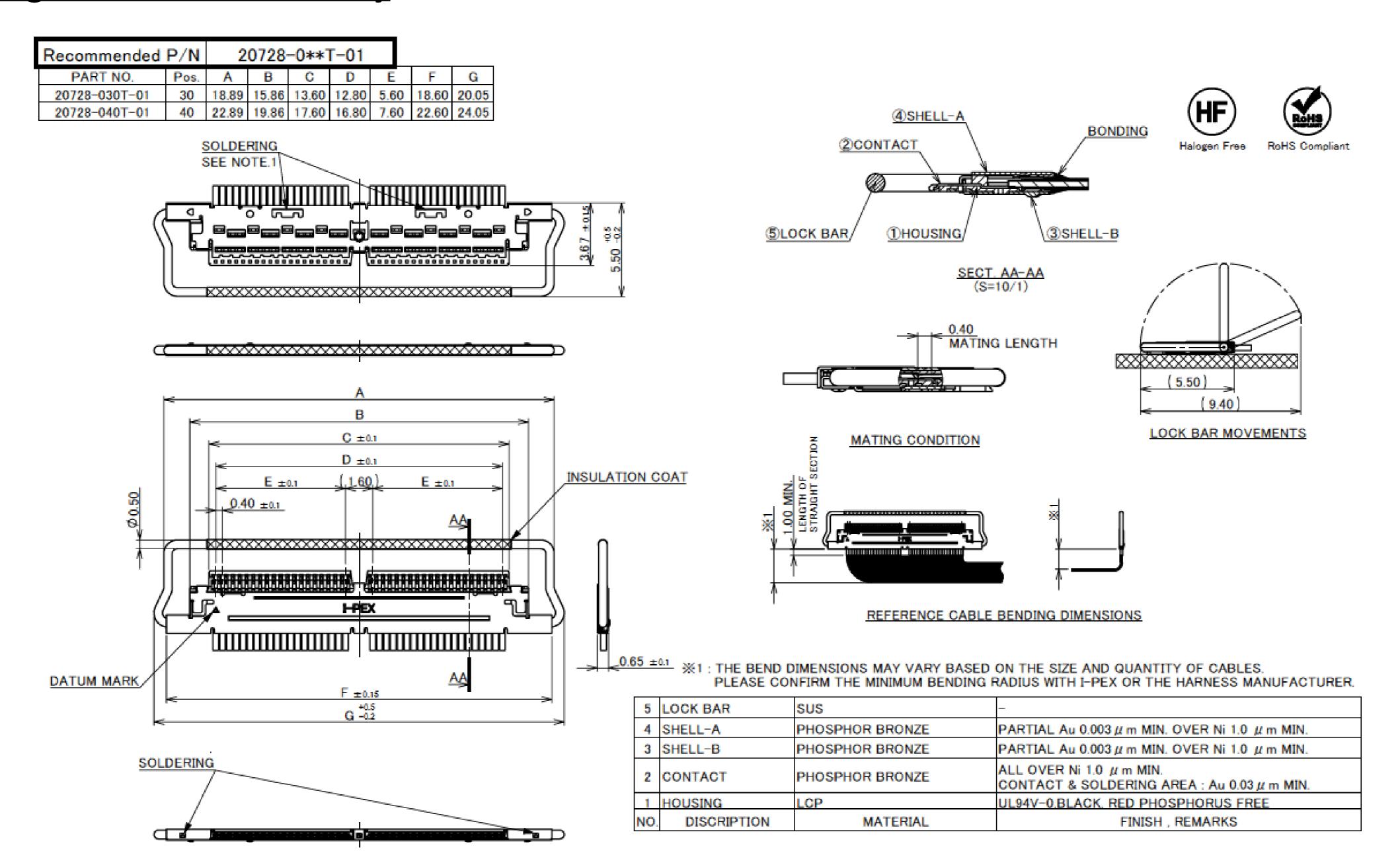
#### **Component Parts**







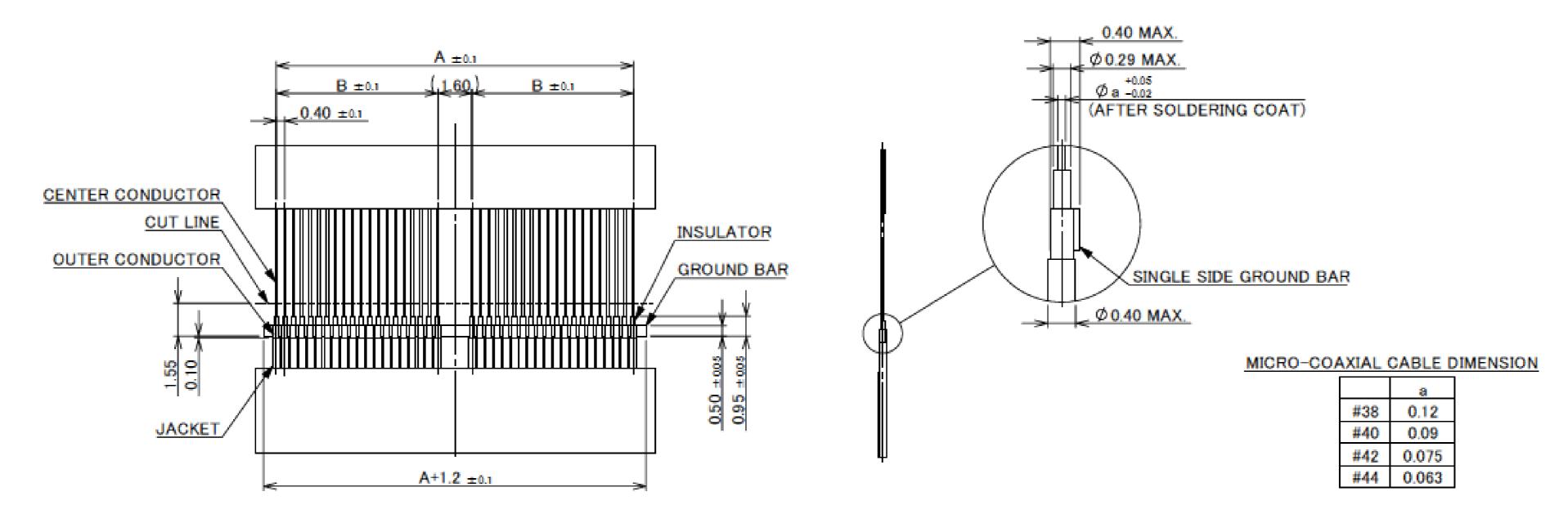
#### **Plug for Cable Assembly**



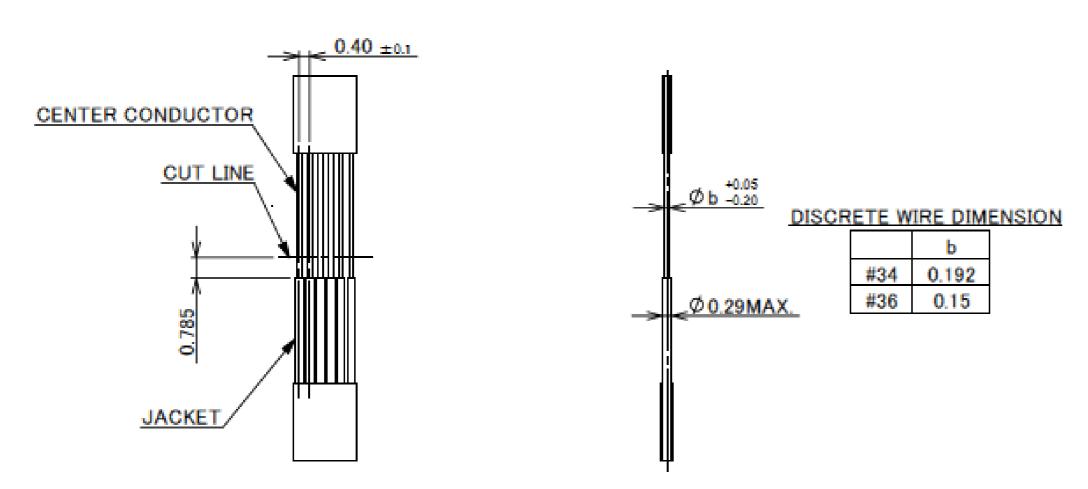
NOTES.

Rev.7 SOLDERING IS ONLY A CASE WITH GND-BAR.

PART NO.	Pos.	Α	В
20728-030T-0#	30	12.80	5.60
20728-040T-0#	40	16.80	7.60



RECOMMENDED MICRO-COAXIAL CABLE DIMENSION



RECOMMENDED DISCRETE WIRE DIMENSION



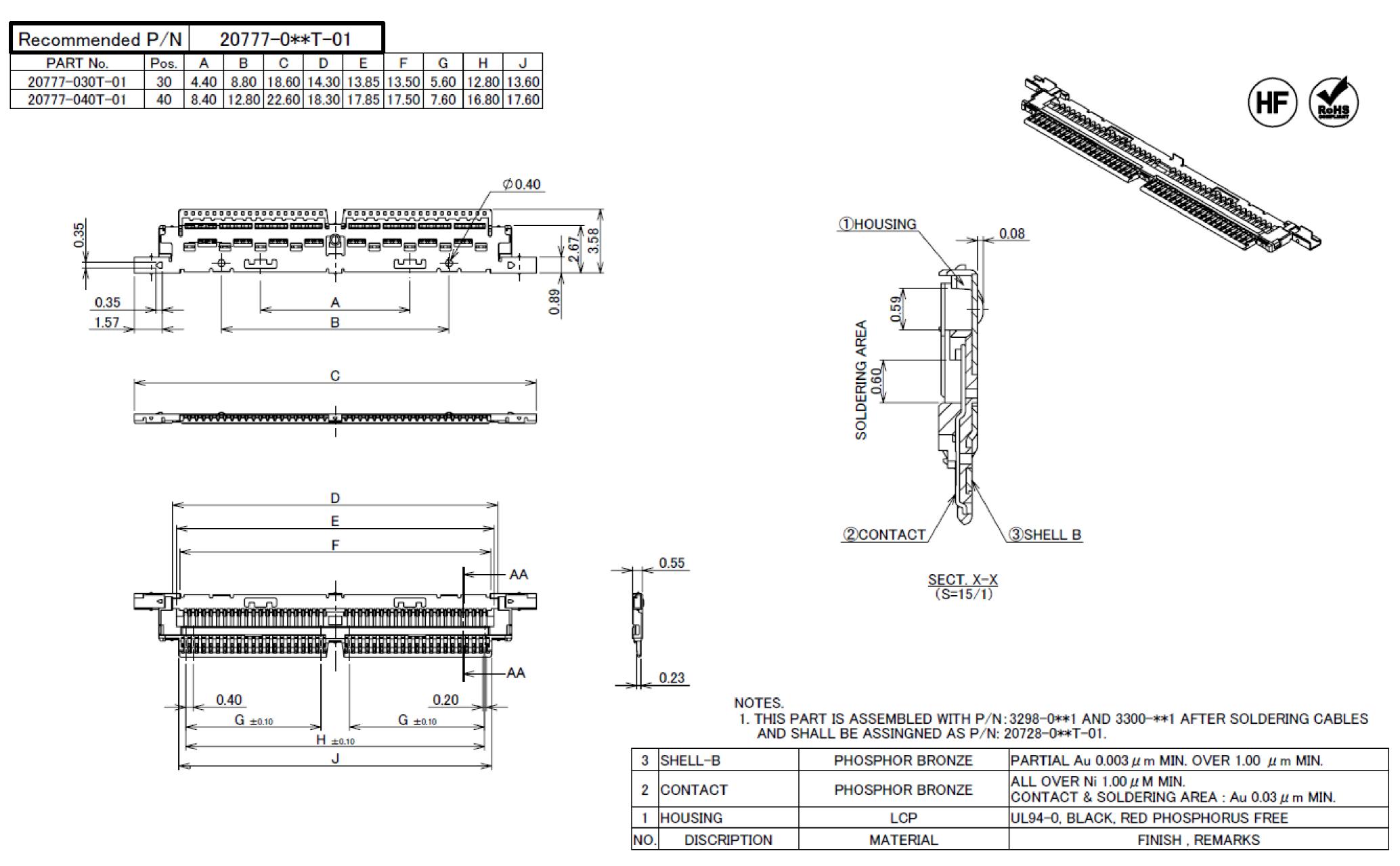


#### Plug for Cable Assembly

ITEMS	SPECIFICATION					
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 38,40,42,44 DISCRETE WIRE: AWG# 34,36					
RATING VOLTAGE	100V AC (PER CONTACT PIN)  XTHIS 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)	0.15A AC/DC [AWG#44] PER CONTACT PIN/UP TO 40 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 40 CONTACTS 0.30A AC/DC [AWG#40] PER CONTACT PIN/UP TO 32 CONTACTS 0.50A AC/DC [AWG#38] PER CONTACT PIN, FOR POWER/UP TO 14 CONTACTS 0.80A AC/DC [AWG#36] PER CONTACT PIN, FOR POWER/UP TO 5 CONTACTS 1.00A AC/DC [AWG#34] PER CONTACT PIN, FOR POWER/UP TO 4 CONTACTS   ** 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.(NON-CONDENSING)					
CONTACT RESISTANCE	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: △40mohm MAX. 275mohm MAX.(AWG#36) 360mohm MAX.(AWG#38) 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 : 12.0N MAX. 40P : 16.0N MAX.					
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.80N MIN. 40P : 2.40N MIN.					
CABLE RETENTION FORCE	30P : 11.8N MIN. 40P : 12.4N MIN					
PRODUCT SPECIFICATION	PRS-2371					
TEST REPORT	TR-17036					
INSTRUCTION MANUAL	HIM-17010					
ASSEMBLY MANUAL	ASM-17003					
APPEARANCE CRITERIA No.	QLS-A***					

Rev.7

## **Plug Housing Assembly**



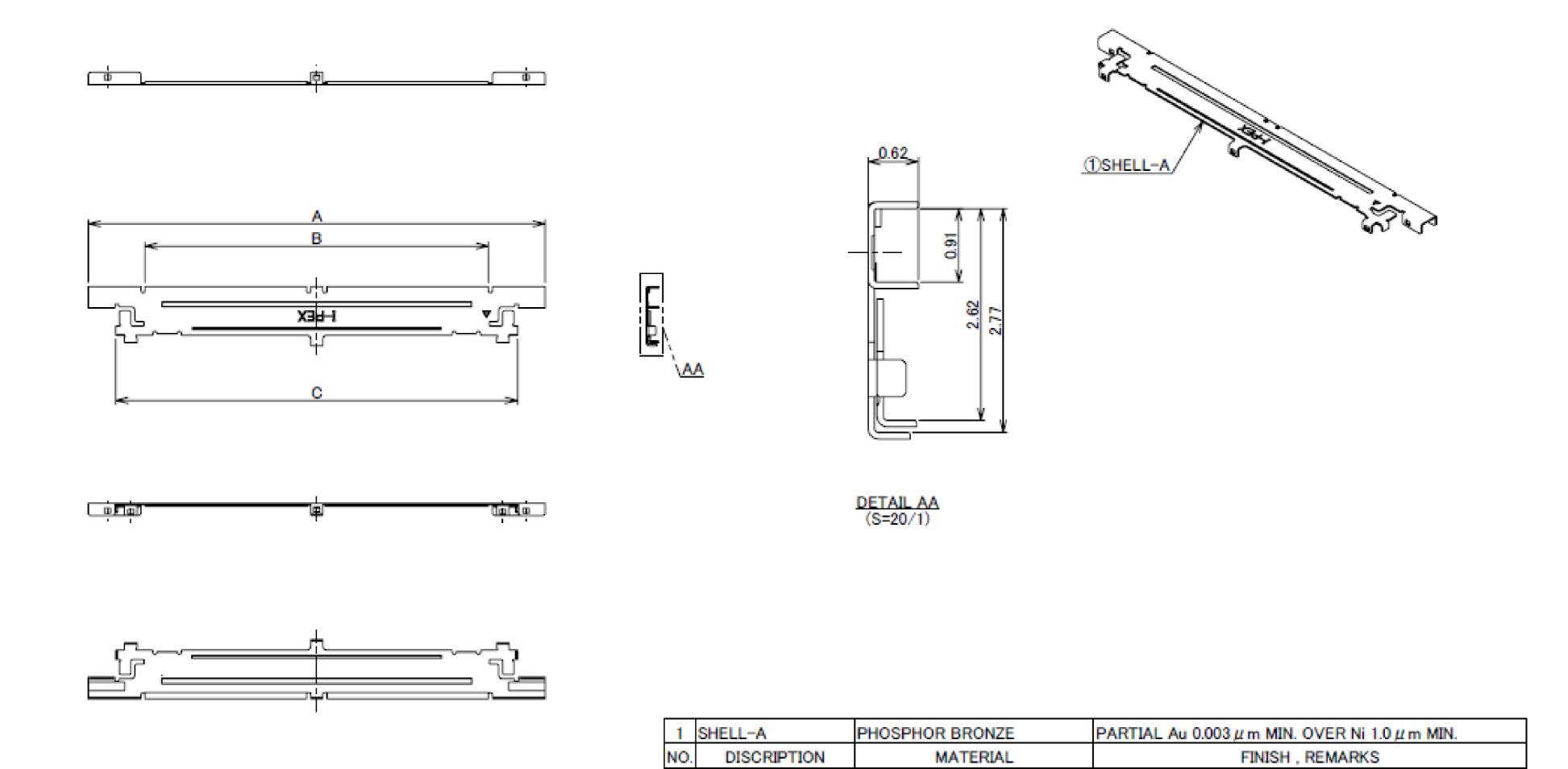


## Plug Shell-A

	Recommended	d P/I	N	32	298-0	**1
Ī	PART No.	Pos.	Α	В	С	
	3298-0301	30	18.60	12.98	15.86	
	3298-0401	40	22.60	16.98	19.86	







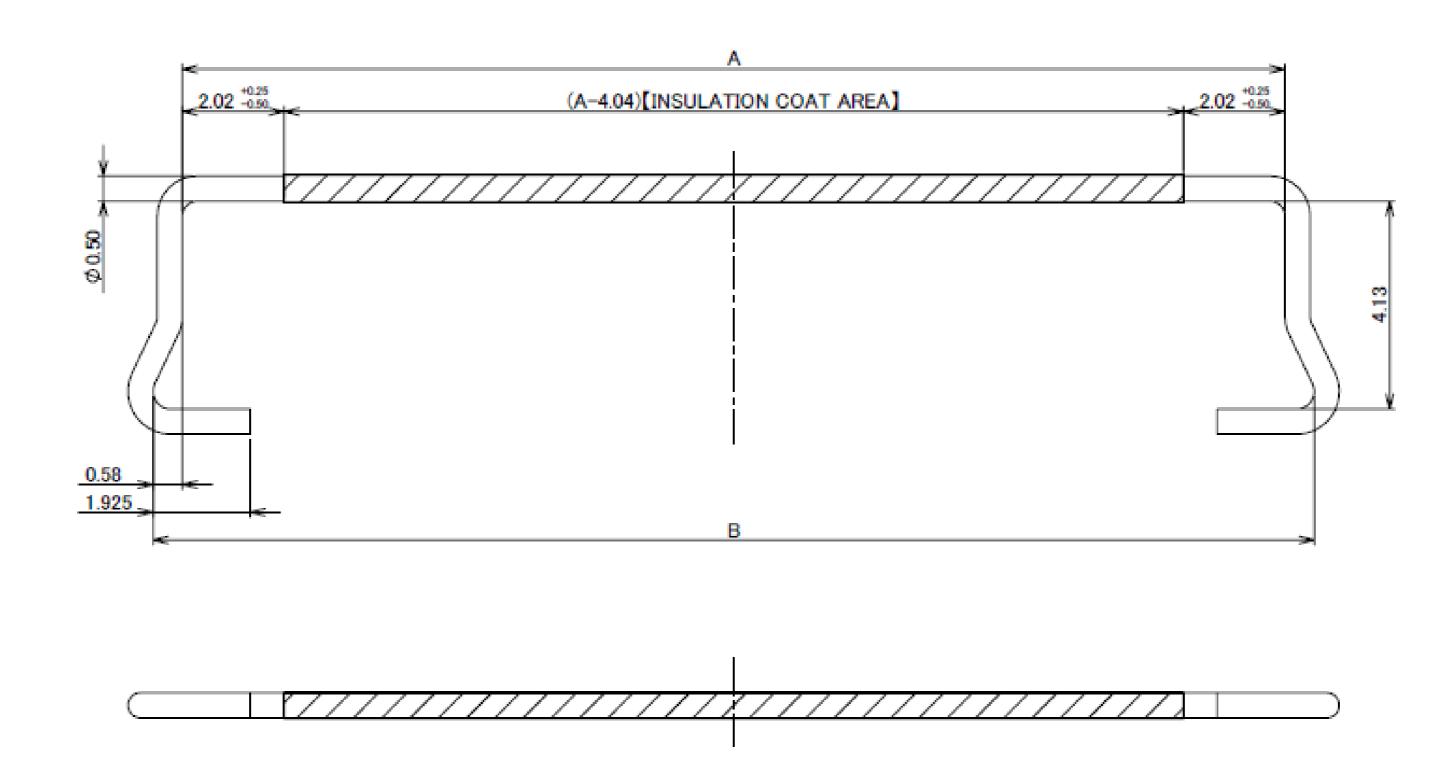
Rev.3

# Plug Lock Bar

Recommende	d P/N		3300	<del>-</del> 0**1
PART No.	Pos.	Α	В	
3300-0301	30	17.89	19.05	
3300-0401	40	21.89	23.05	

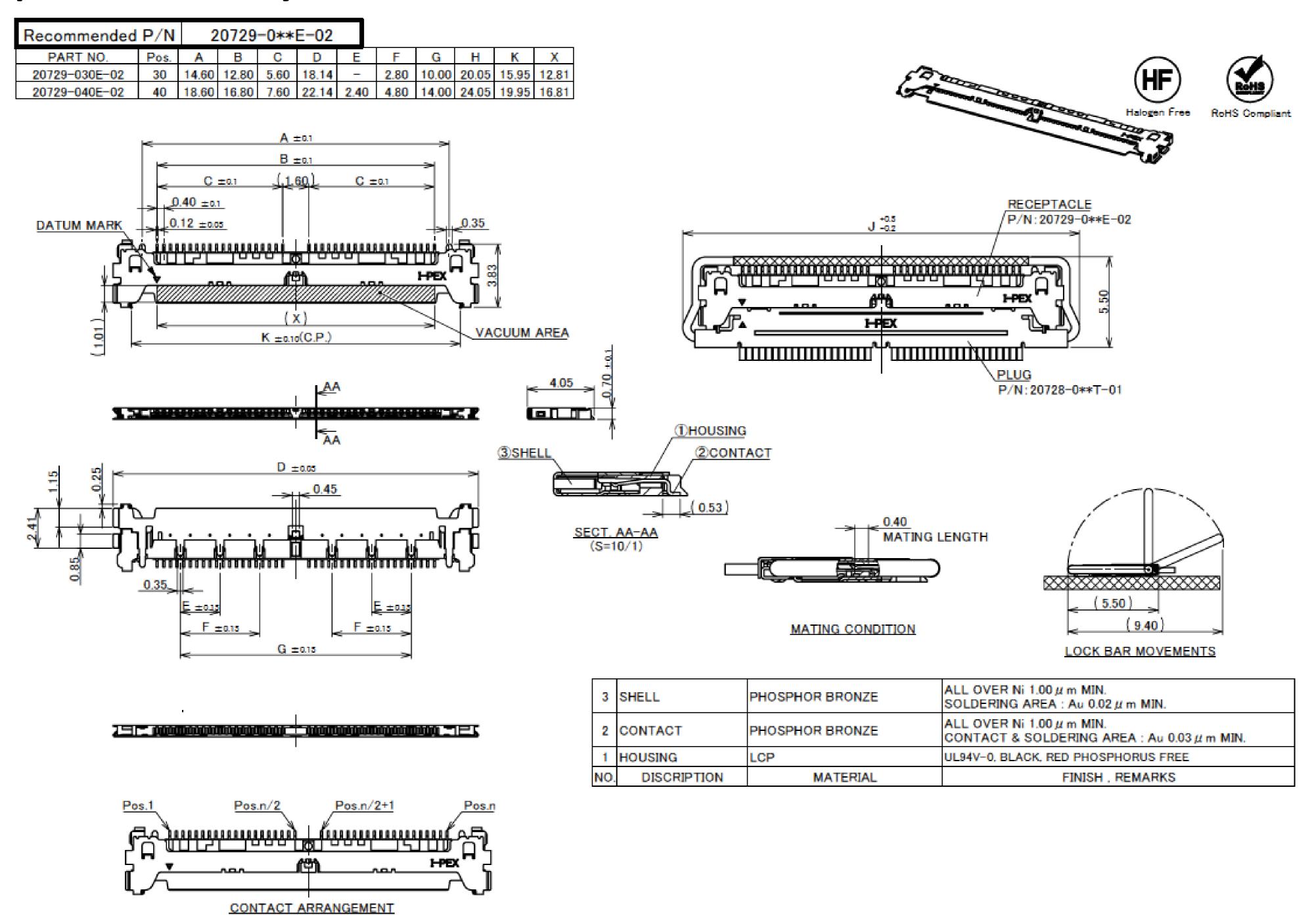






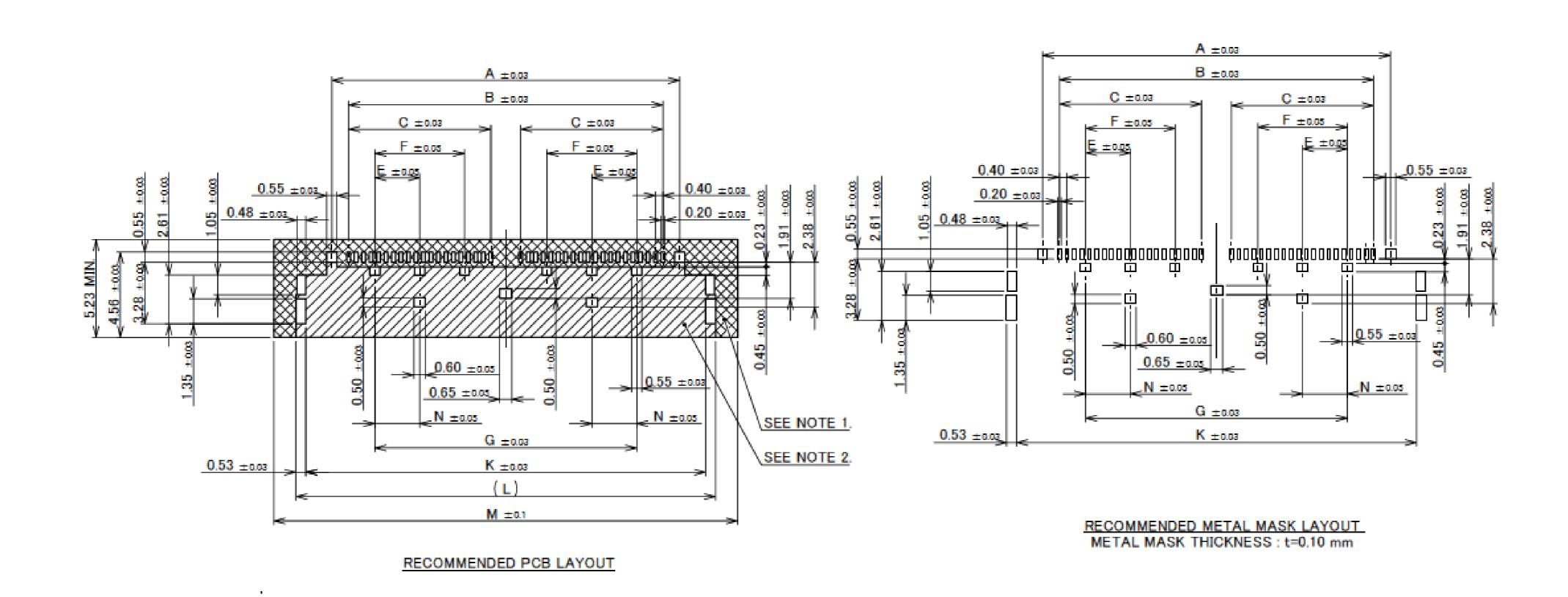
1	LOCK BAR	SUS	_			
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS			

#### **Receptacle Assembly**



Rev.8

PART NO.	Pos.	Α	В	С	E	F	G	K	L	М	N
20729-030E-02	30	14.60	12.80	5.60	ı	2.80	10.00	17.38	18.44	20.80	1.40
20729-040E-02	40	18.60	16.80	7.60	2.40	4.80	14.00	21.38	22.44	24.80	2.40



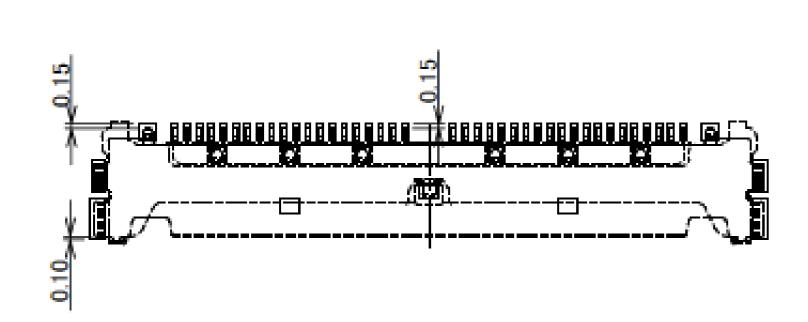
NOTES.

1. DO NOT MOUNT ANOTHER COMPONENTS IN THIS AREA.

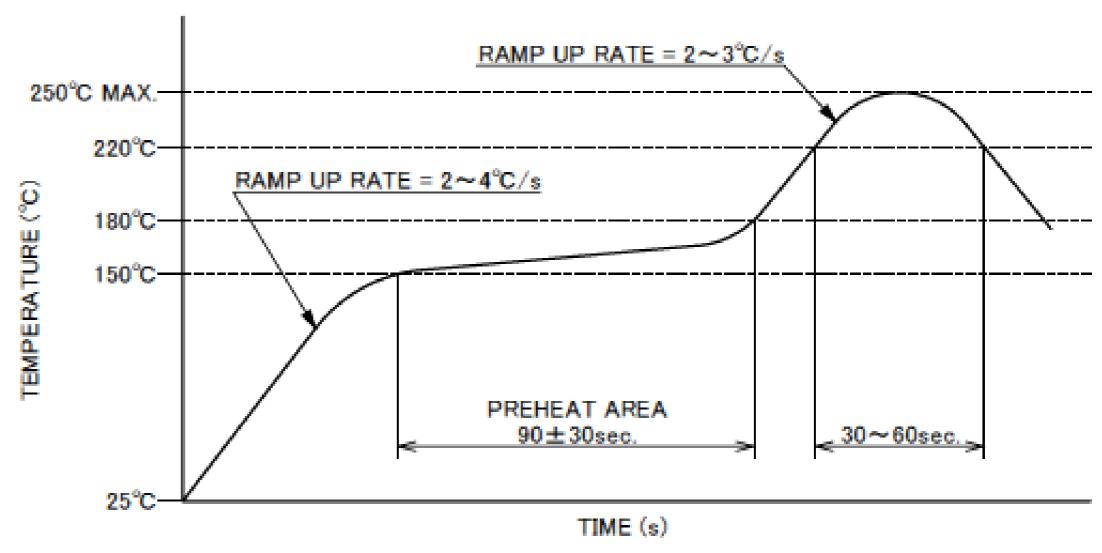
<sup>2.</sup> SOLDER RESIST MUST BE APPLIED TO THIS AREA.



### **Receptacle 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
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 40,42,44
	DISCRETE WIRE : AWG# 34.36
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.15A AC/DC [AWG#44] PER CONTACT PIN/UP TO 40 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 40 CONTACTS 0.30A AC/DC [AWG#40] PER CONTACT PIN/UP TO 32 CONTACTS 0.50A AC/DC [AWG#38] PER CONTACT PIN, FOR POWER/UP TO 14 CONTACTS 0.80A AC/DC [AWG#36] PER CONTACT PIN, FOR POWER/UP TO 5 CONTACTS 1.00A AC/DC [AWG#34] PER CONTACT PIN, FOR POWER/UP TO 4 CONTACTS  ** 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.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: △40mohm MAX. 275mohm MAX.(AWG#36) 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 : 12.0N MAX. 40P : 16.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.80N MIN. 40P : 2.40N MIN.
CABLE RETENTION FORCE	30P : 11.8N MIN. 40P : 12.4N MIN
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2371
TEST REPORT	TR-17036
PACKING STANDARD	PST-17058
INSTRUCTION MANUAL	HIM-17010
APPEARANCE CRITERIA No.	QLS-A***



Custom
Connectors
Available

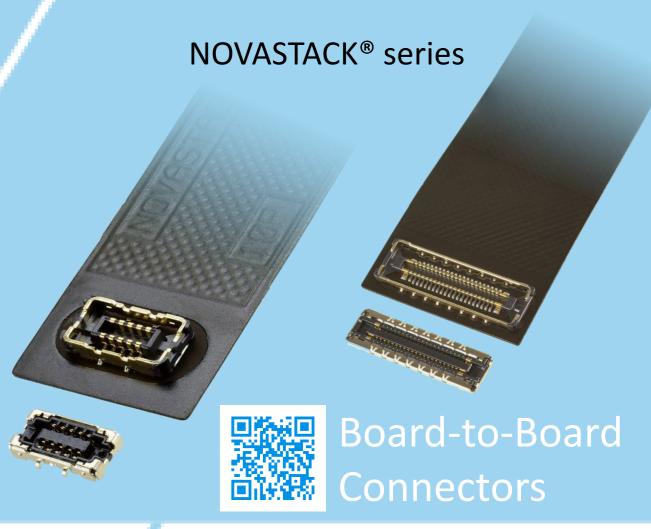




AP series























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