## CABLINE®-CX II With Cover

Narrow pitch (0.25 mm pitch), Low mating height (Height = 1.00 mm max.), EMI shielding cover and multi-point ground with mechanical lock, Horizontal mating type micro-coaxial connector

**Product Specifications:** 

g type	Horizontal
<b>-</b>	110112011601
tch (mm)	0.5
ngth (mm)	0.54
Height	1.00 max. with cover
Width	Formula: 6.45 + (0.25*?p)
Depth	5.6
Range	Up to 40
Available	40
	ngth (mm) Height Width Depth Range



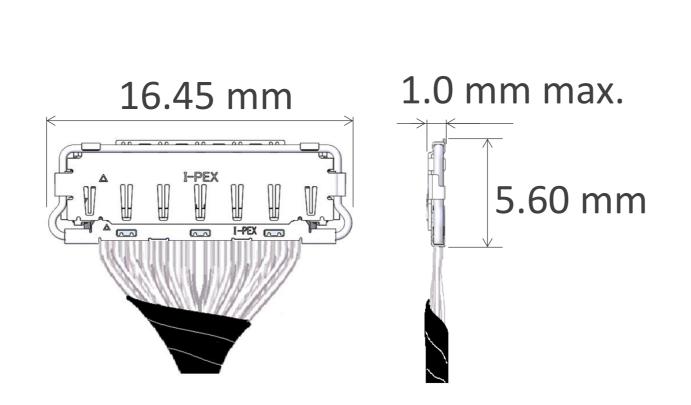
Applicable Standards (Reference Only):

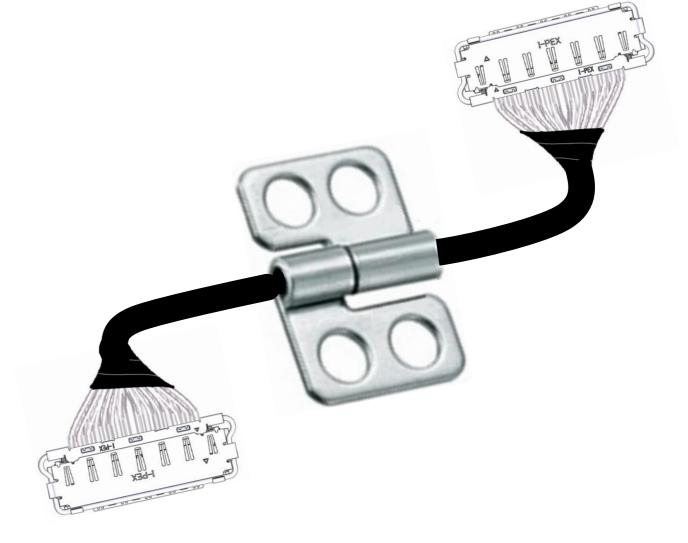
USB 3.1 Gen 1 (5 Gbps), V-By-One HS 1.4 (4 Gbps), HDMI 1.3 (3.4 Gbps) Gbps

### Suitable for Small Spaces Hinge Component Pass-Through with CABLINE® Harness Assemblies

CABLINE-CX II 40p size is smaller than a one-cent coin. Mating Height: 1.0 mm maximum

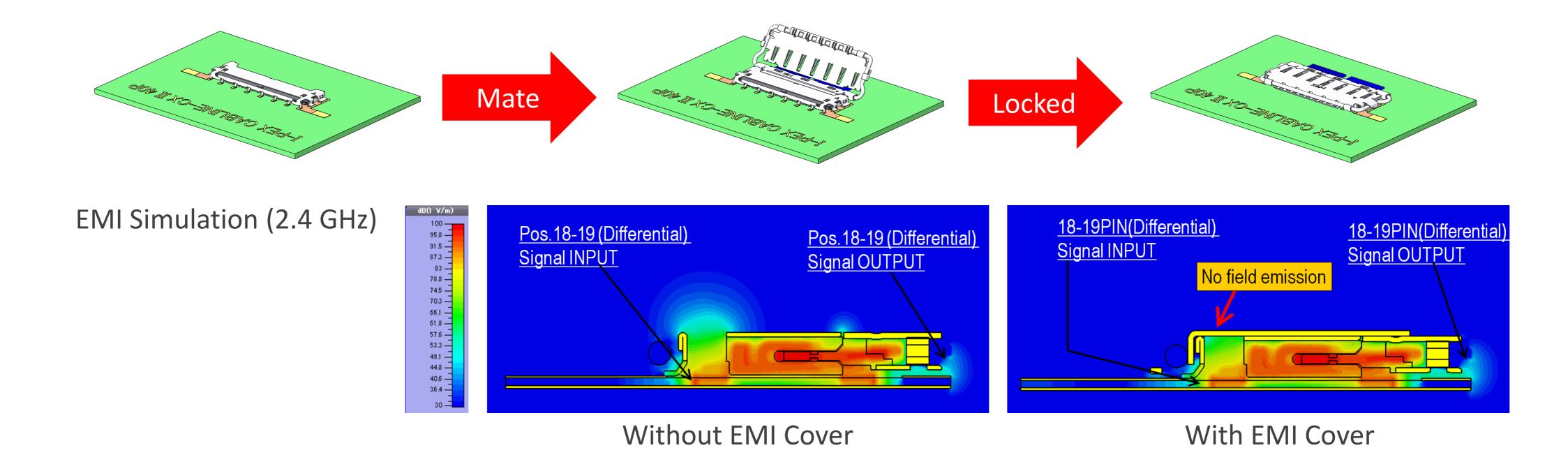




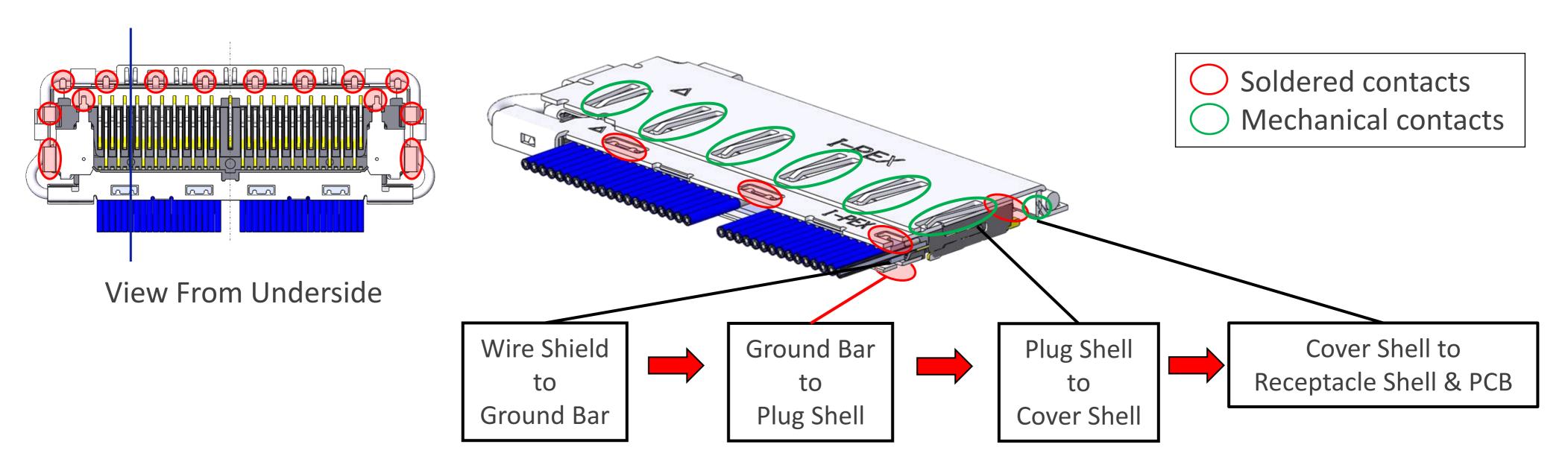


Flexible micro-coaxial cable harness is suitable for applications with hinge design.

## **EMI Shielding Mechanical Locking Cover Prevents EMI Leakage**



## **EMI Shielding and Multi-Point Ground Design**

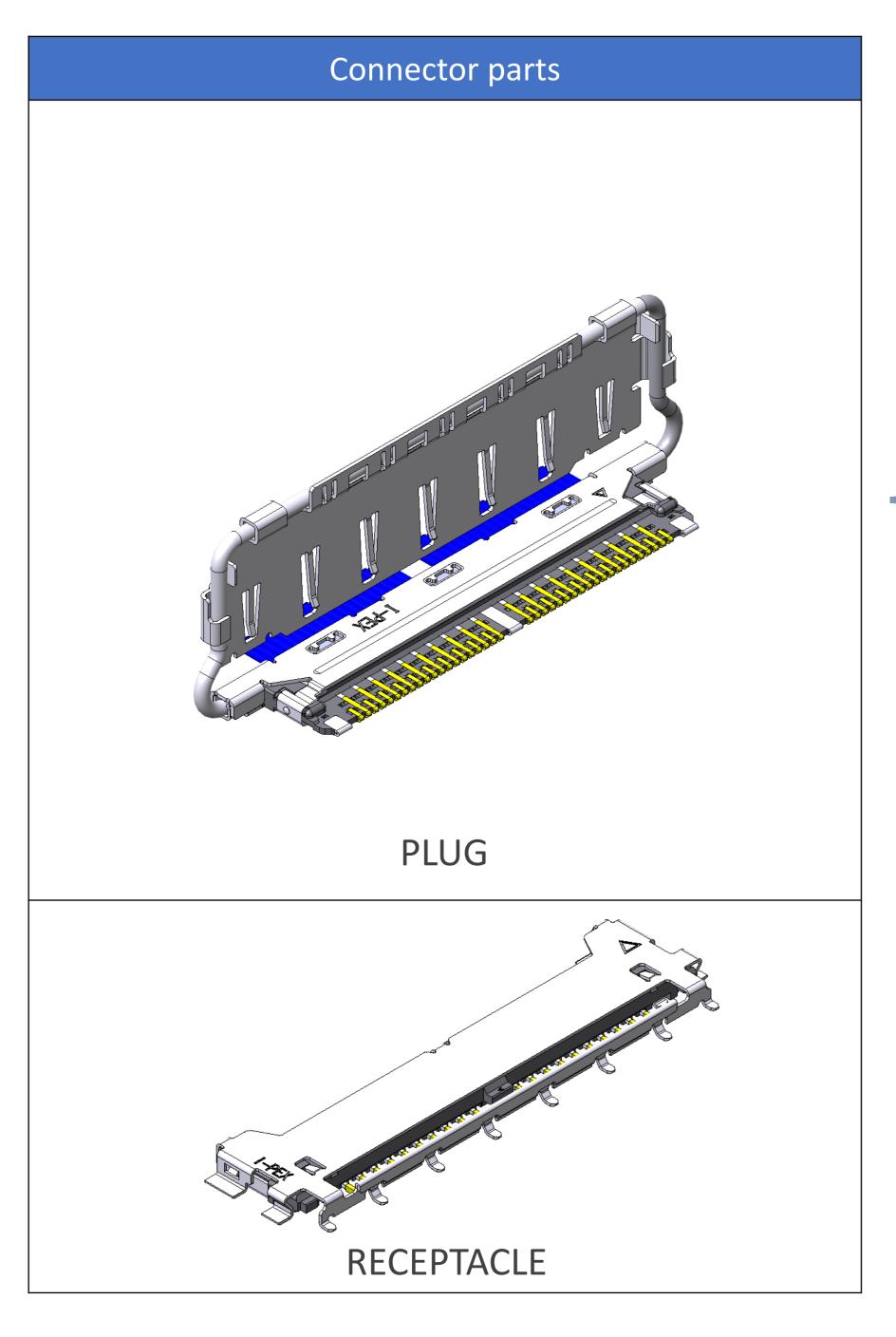


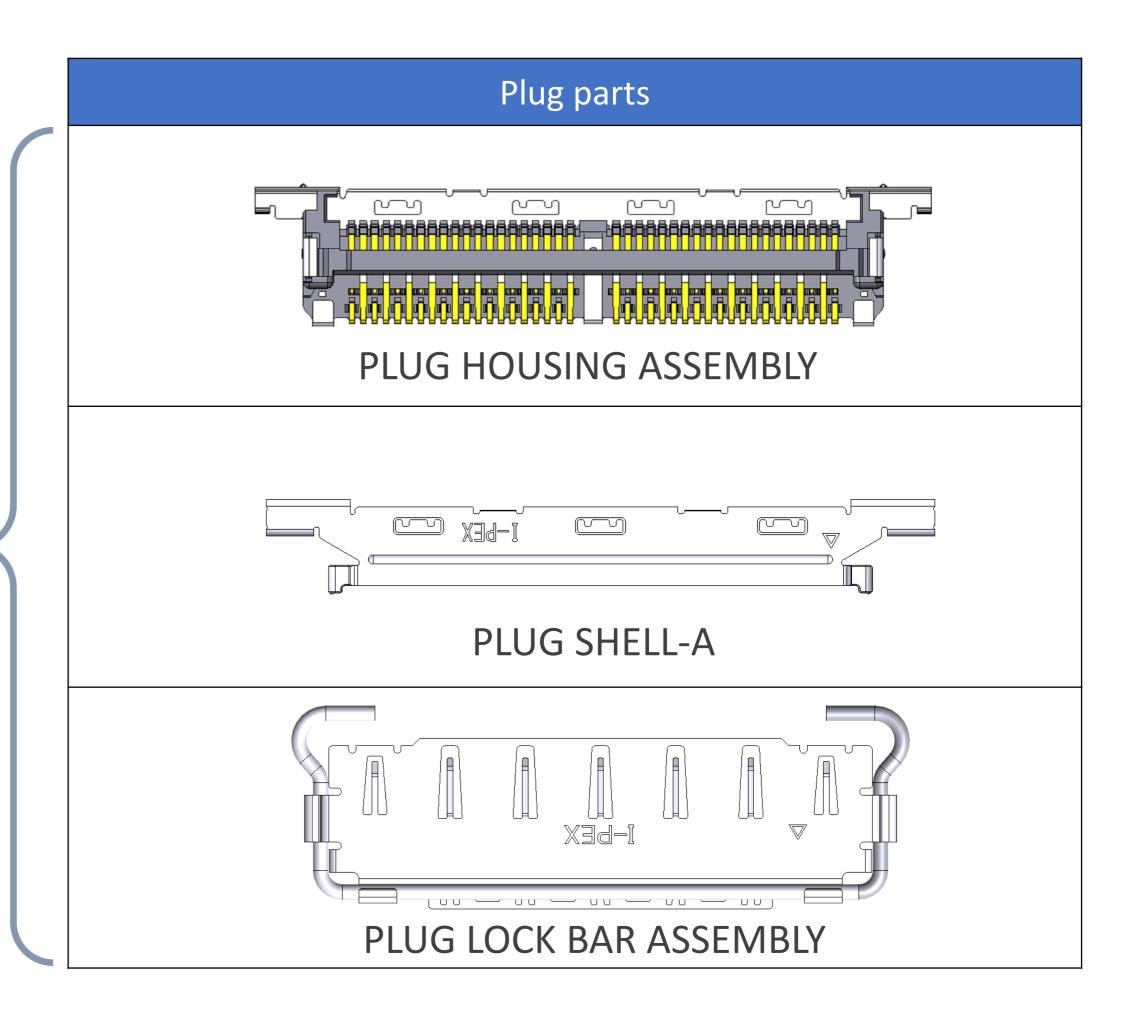
<sup>\*</sup> Please inquire for pin counts not listed or outside of the pin count range.

<sup>\*</sup> CABLINE®-CX II Without Cover type (mating height 0.78 mm max.) is also available.

# Component Parts Details

## **Component Parts**

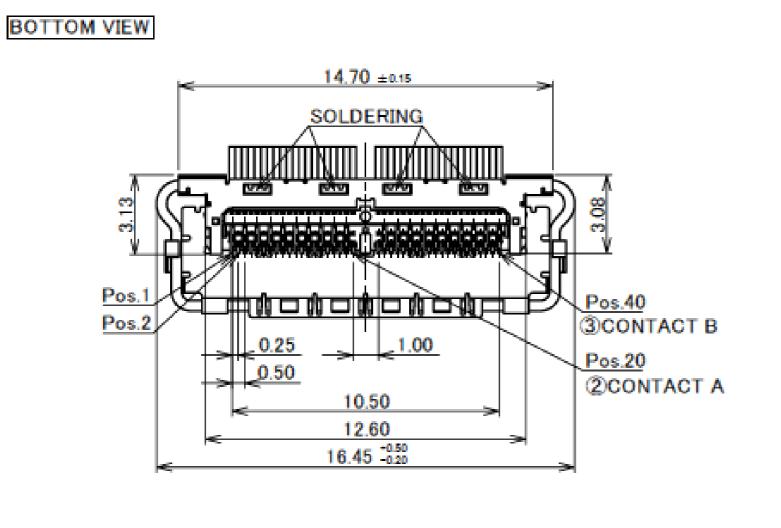


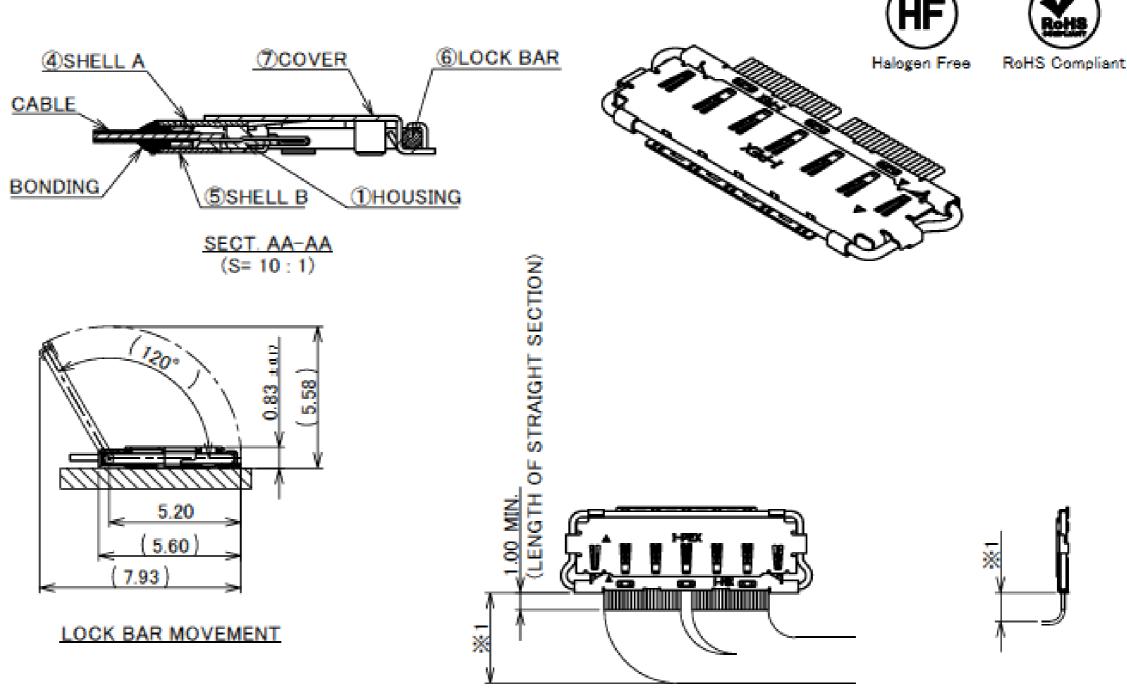




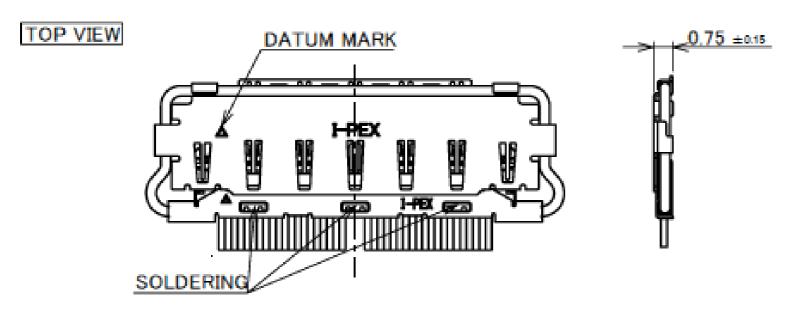
## **Plug for Cable Assembly**

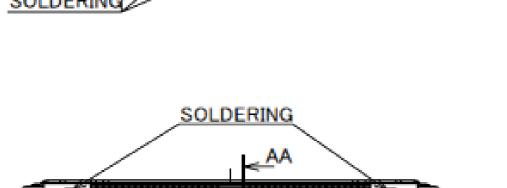
Recommended F	P/N	20977-040T-01
PART NO.	Pos.	
20977-040T-01	40	





REFERENCE CABLE BENDING DIMENSIONS





<-AA

X1: 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.

Output

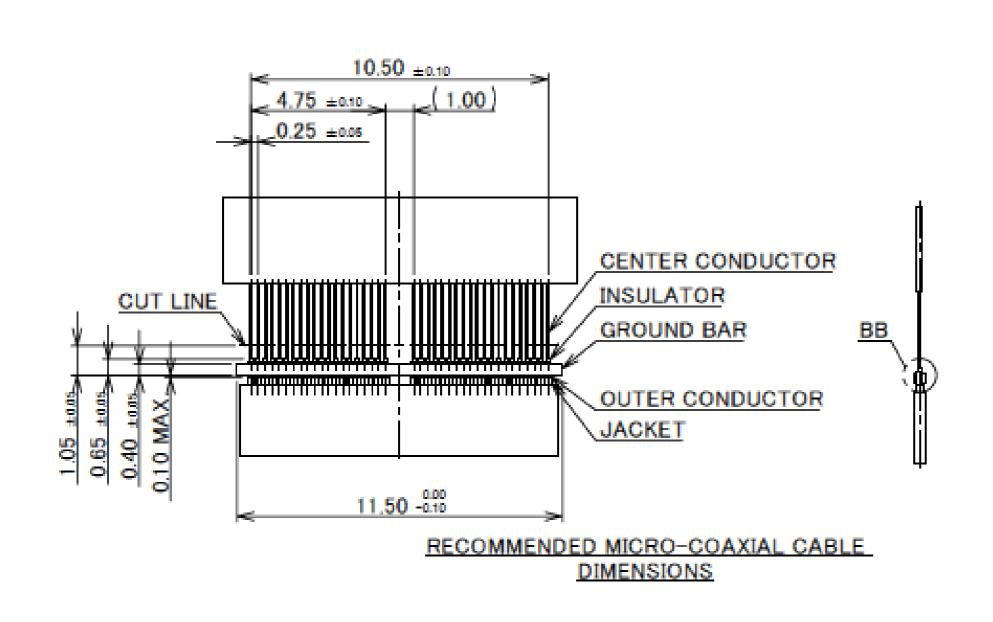
Description:

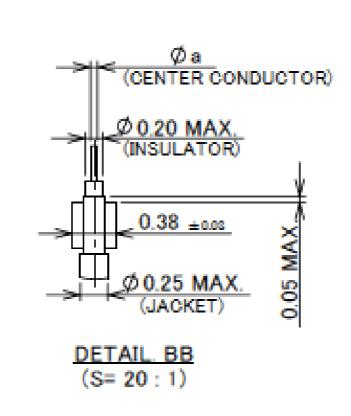
Output

Descr

7	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
6	LOCK BAR	SUS	_
5	SHELL B	SUS	PARTIAL Au $0.003\mu$ m MIN. OVER Ni $1.00\mu$ m MIN.
4	SHELL A	SUS	PARTIAL Au $0.003\mu$ m MIN. OVER Ni $1.00\mu$ m MIN.
3	CONTACT B	CORSON ALLOY	CONTACT AREA: Au 0.25 μ m MIN. OVER Ni 2.00 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT A	CORSON ALLOY	CONTACT AREA : Au $0.25\mu$ m MIN. OVER Ni $2.00\mu$ m MIN. SOLDERING AREA : Au $0.03\mu$ m MIN. OVER Ni $1.00\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.4





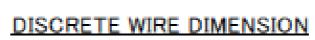
## CHARACTERISTIC IMPEDANCE MATCHING MICRO-COAXIAL CABLE

#### #44 0.063 #46 0.048

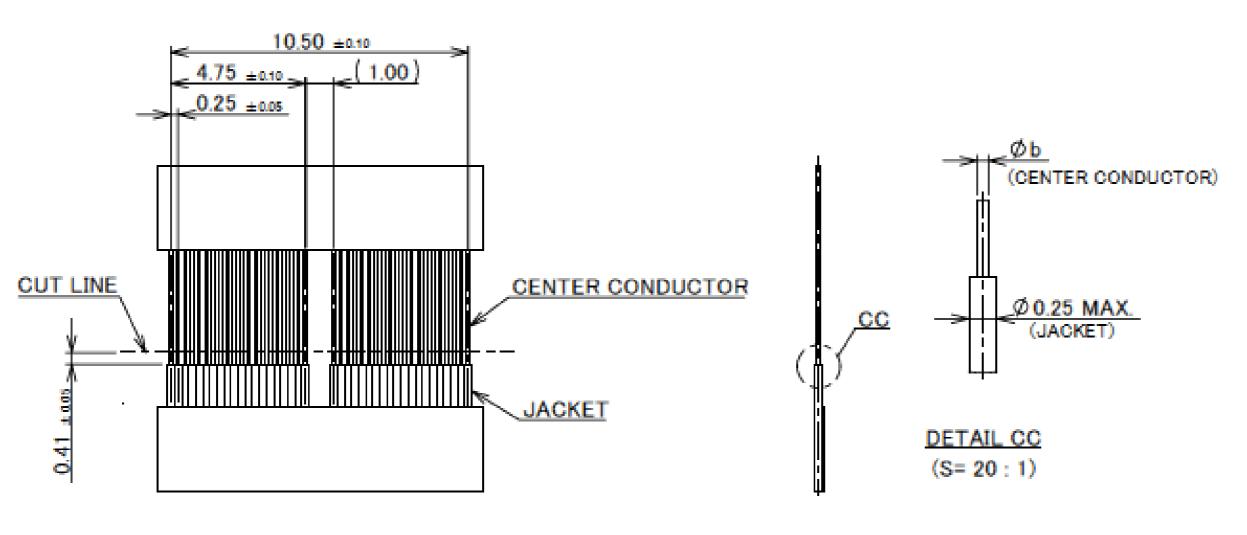
CHARACTERISTIC IMPEDANCE UN-MATCHING MICRO-COAXIAL CABLE

	a
#39	0.102

MICRO-COAXIAL CABLE #39 : NOT RECOMMENDED
FOR HIGH SPEED SIGNAL TRANSFER



	b
#39	0.102



RECOMMENDED DISCRETE WIRE DIMENSIONS

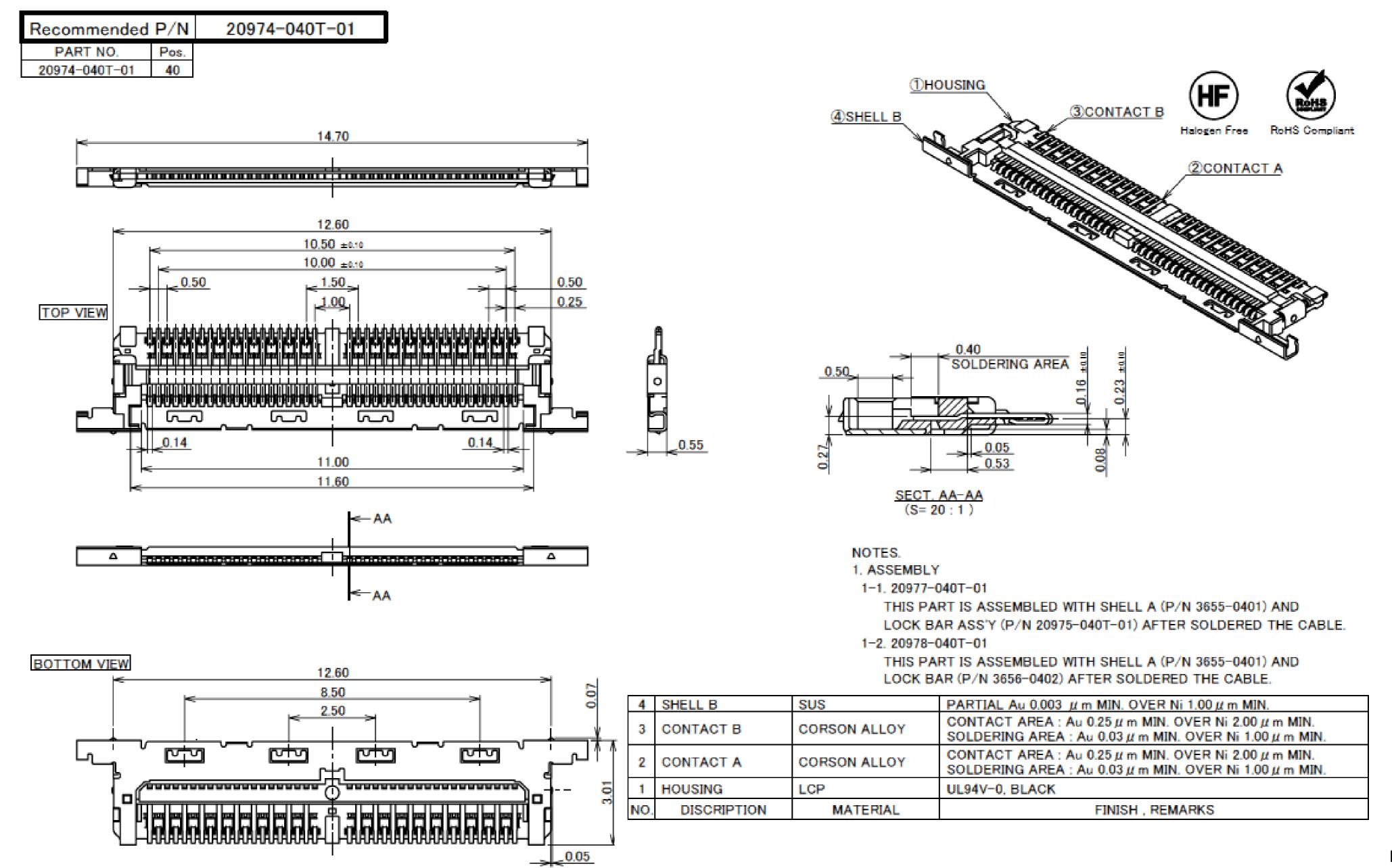


## Plug for Cable Assembly

ITEMS	SPECIFICATION	
ADDITOADI E CADI E	MICRO-COAXIAL CABLE: AWG# 46,44,39	
APPLICABLE CABLE	DISCRETE WIRE: AWG# 39	
	100V AC (PER CONTACT PIN)	
RATING VOLTAGE	※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.	
	0.10A AC/DC [AWG#46] PER CONTACT PIN/UP TO 40 CONTACTS	
RATING AMPERAGE (FOR CONTACT)	0.15A AC/DC [AWG#44] PER CONTACT PIN/UP TO 40 CONTACTS 0.50A AC/DC [AWG#39] PER CONTACT PIN/UP TO 8 CONTACTS	
RATING AMPERAGE (FOR CONTACT)	**TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE	
	TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION	
OPERATING TEMPERATURE	233~358K(-40°C~+85°C) (CONTAINING TEMPERATURE RISE BY CURRENT)	
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)	
	INITIAL: 388mohm MAX.(AWG#39) / AFTER TEST: ∠40mohm MAX.	
CONTACT RESISTANCE	INITIAL: 1,080mohm MAX.(AWG#44) INITIAL: 1,830mohm MAX.(AWG#46)	
GROUND SHELL RESISTANCE	INITIAL: 50mohm MAX. / AFTER TEST: △40mohm MAX.	
INSULATION RESISTANCE	INITIAL: 1,000Mohm MIN. / AFTER TEST: 500Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min	
DURABILITY	20 CYCLES	
MATING FORCE (INITIAL / 20 CYCLES)	40P : 30.0N MAX.	
UNMATING FORCE (INITIAL / 20 CYCLES)	40P: 4.0N MIN.	
CABLE RETENTION FORCE	40P: 19.60N MIN.	
PRODUCT SPECIFICATION	PRS-2403	
TEST REPORT	TR-17063	
INSTRUCTION MANUAL	HIM-17035	
ASSEMBLY MANUAL	ASM-17008	
APPEARANCE CRITERIA No.	QLS-A***	

Rev.4

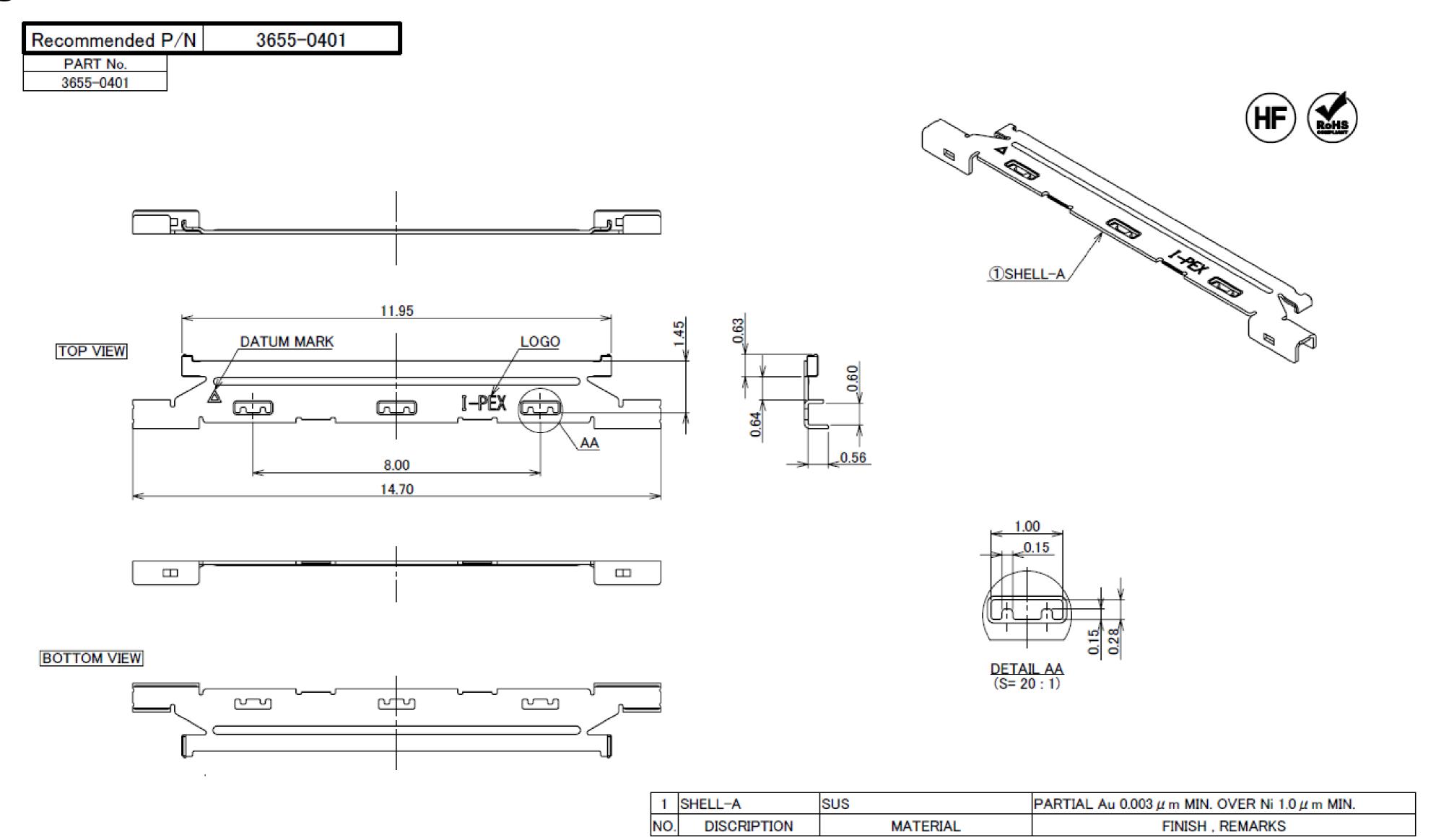
## **Plug Housing Assembly**



Rev.1

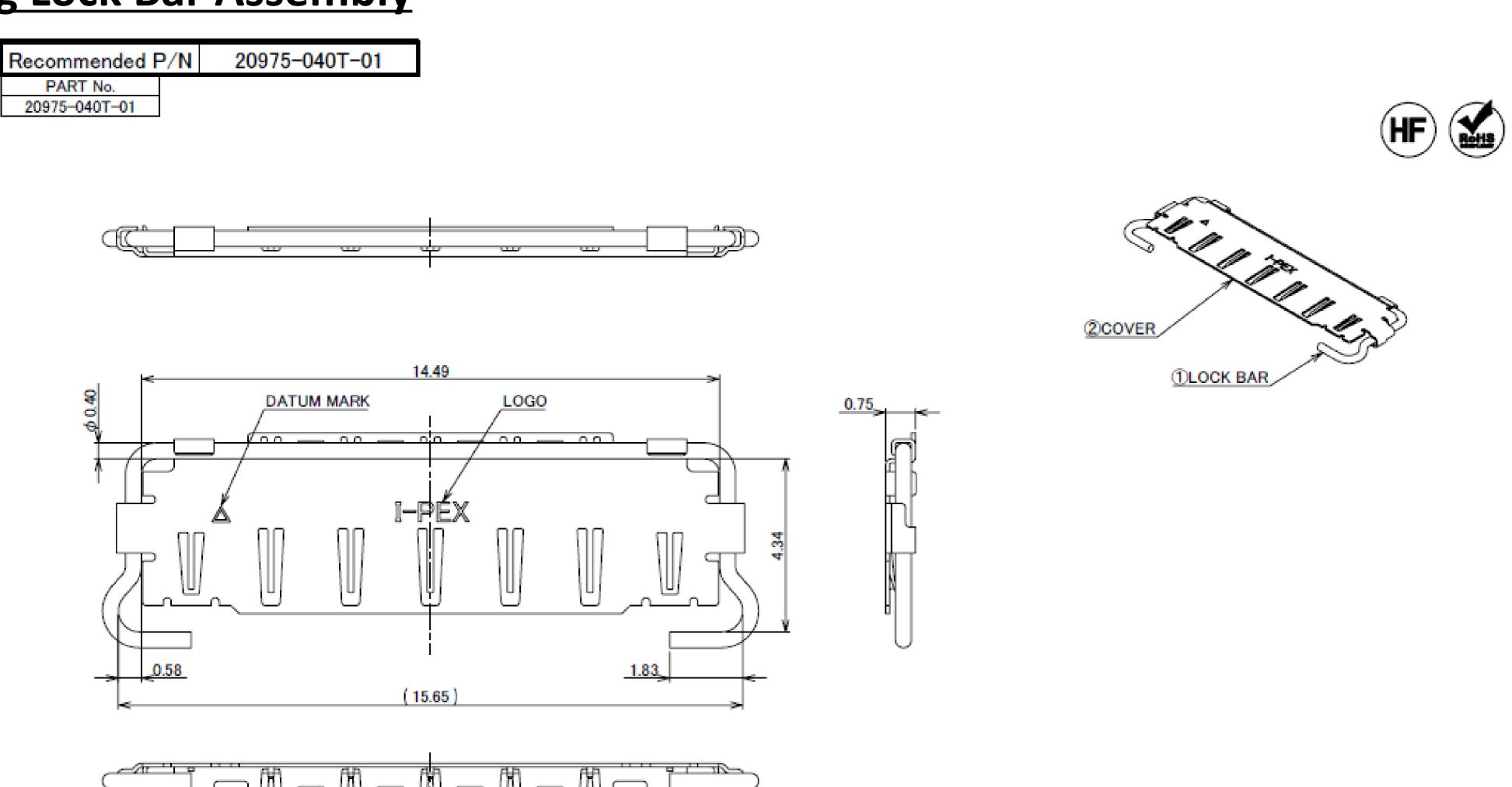


## **Plug Shell-A**



Rev.0

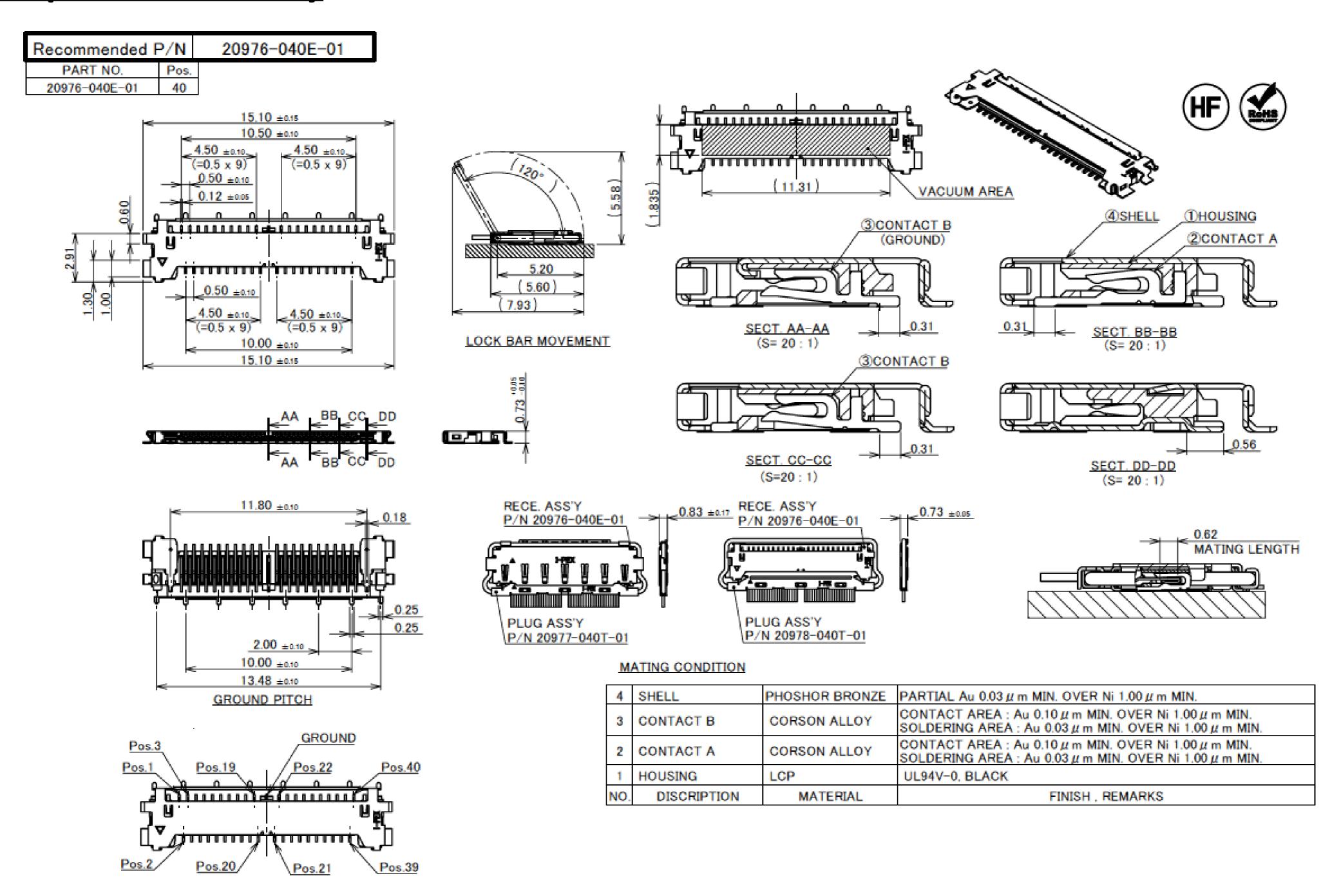
## **Plug Lock Bar Assembly**

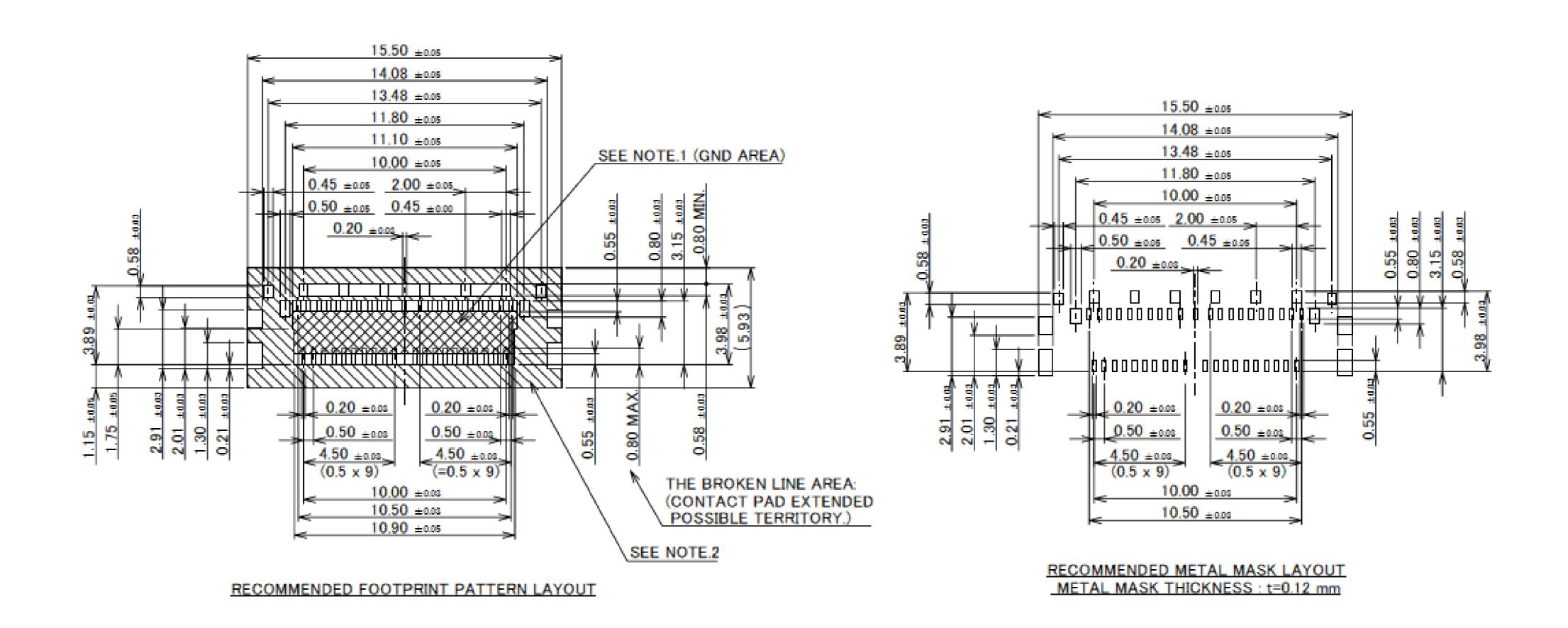


2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
1	LOCK BAR	SUS \$\phi\$ 0.40	_
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS



### **Receptacle Assembly**





NOTES.

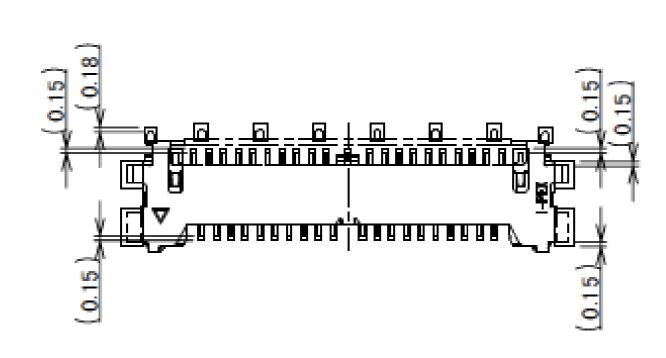
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA 2. DO NOT MOUNT ANOTHER COMPONENTS IN THIS AREA.

CONTACT ARRANGEMENT

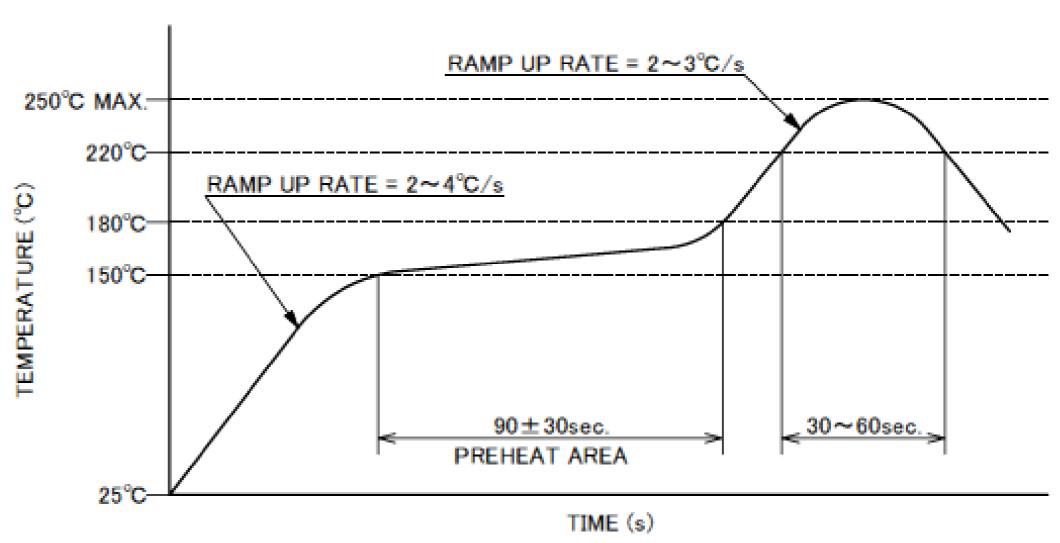


Rev.3

## **Receptacle Assembly**



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.3

ITEMS	SPECIFICATION	
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 46,44	
	DISCRETE WIRE : AWG# 39	
RATING VOLTAGE	100V AC (PER CONTACT PIN)	
RATING AMPERAGE (FOR CONTACT)	0.10A AC/DC [AWG#46] PER CONTACT PIN/UP TO 40 CONTACTS 0.15A AC/DC [AWG#44] PER CONTACT PIN/UP TO 40 CONTACTS 0.50A AC/DC [AWG#39] PLUG WITH COVER CABLE ASS'Y (P/N: 20977-040T-01) PER CONTACT PIN/UP TO 8 CONTACTS PLUG WITHOUT COVER CABLE ASS'Y (P/N: 20978-040T-01) PER CONTACT PIN/UP TO 7 CONTACTS  ***TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION	
OPERATING TEMPERATURE	233~358K(-40°C~+85°C) (CONTAINING TEMPERATURE RISE BY CURRENT)	
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)	
CONTACT RESISTANCE	INITIAL: 388mohm MAX.(AWG#39) / AFTER TEST: ∠40mohm MAX. INITIAL: 1,080mohm MAX.(AWG#44) INITIAL: 1,830mohm MAX.(AWG#46)	
GROUND SHELL RESISTANCE	INITIAL: 50mohm MAX. / AFTER TEST: ∠40mohm MAX.	
INSULATION RESISTANCE	INITIAL: 1,000Mohm MIN. / AFTER TEST: 500Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min	
DURABILITY	20 CYCLES	
MATING FORCE (INITIAL / 20 CYCLES)	40P: 30.0N MAX.	
UNMATING FORCE (INITIAL / 20 CYCLES)	40P: 4.0N MIN.	
CABLE RETENTION FORCE	40P: 19.60N MIN.	
COPLANARITY	0.10 MAX.	
PRODUCT SPECIFICATION	PRS-2403	
TEST REPORT	TR-17063	
PACKING STANDARD	PST-17126	
INSTRUCTION MANUAL	HIM-17035 (WHEN PLUG WITH COVER CABLE ASS'Y IS USED) HIM-17040 (WHEN PLUG WITHOUT COVER CABLE ASS'Y IS USED)	
APPEARANCE CRITERIA No.	QLS-A***	



Custom
Connectors
Available

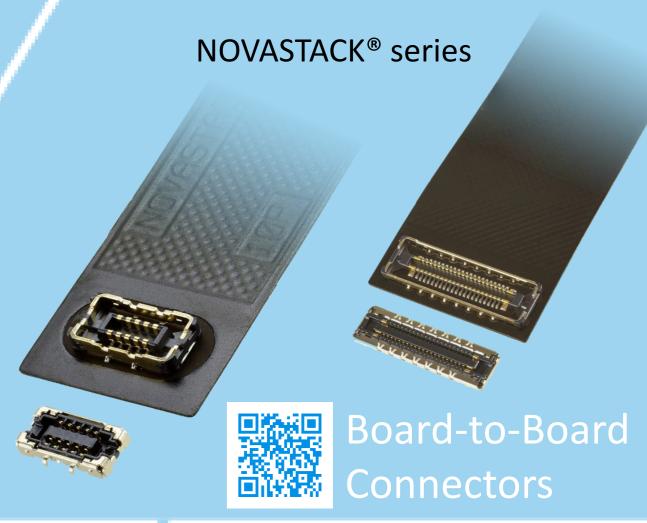




AP series







MINIFLEX® series















**EVAFLEX®** series

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