CABLINE®-CA II

풀 실드, 메카니컬 록 포함, 고속 전송 대응, 0.4mm 피치, 수평 결합 타입 세선 동축 커넥터

Product Specifications: Horizontal Mating type 0.4 Board Pitch (mm) Wiping Length (mm) 0.54 1.1 max. with cover Height Mated size Formula: 6.95 + (0.4*?p)Width (mm) 6.2 Depth Up to 60 Range Pin Counts

Available

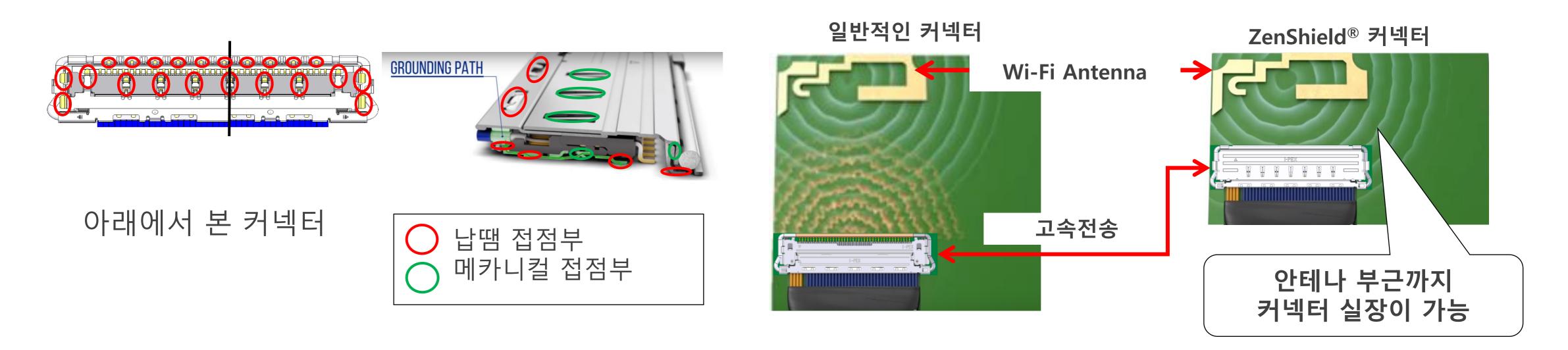
Applicable Cable Size:				
Maximum O.D. (mm)	0.4			
Micro-Coaxial	45 ohm: #38 or smaller			
for Signal (AWG)	50 ohm: #40 or smaller			
Twinax (AWG)	#40, #42			
Discrete (AWG)	#34 or smaller			

Applicable Standards (Reference Only):

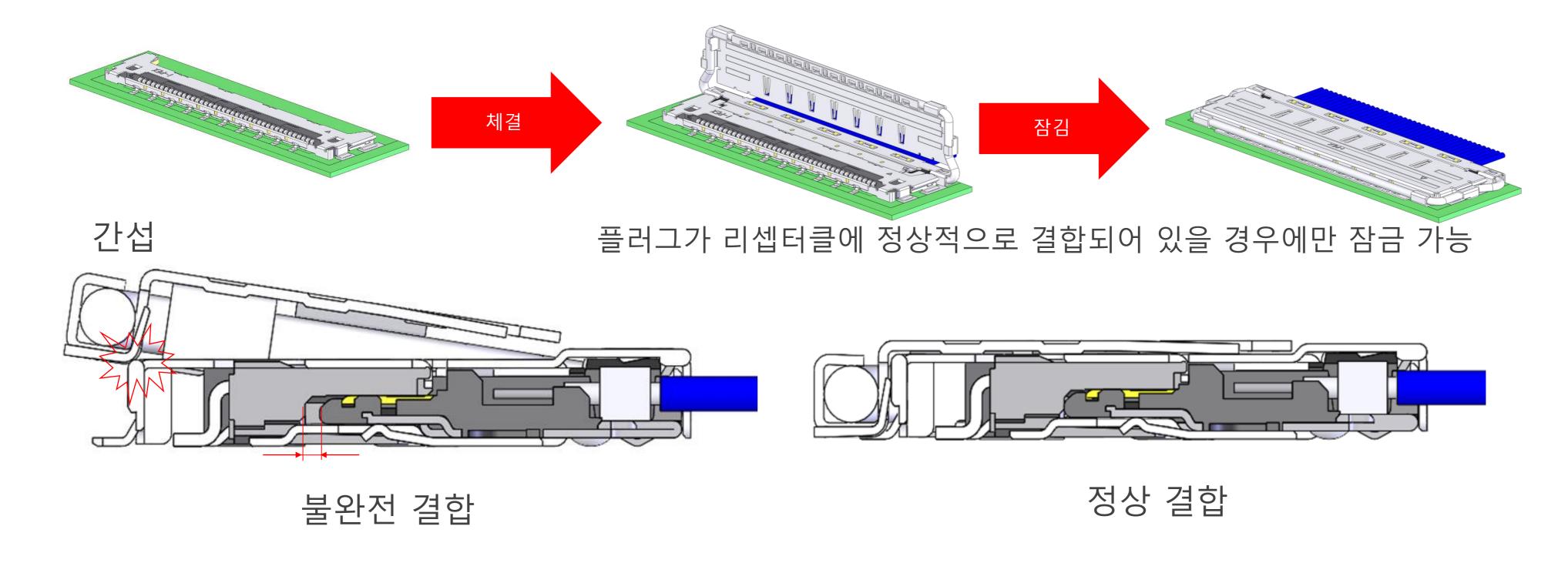
USB4/Thunderbolt 4 (20 Gbps/lane), PCIe® Gen 4 (16 GT/s), eDP HBR 3 (8.1 Gbps)

20, 30, 40, 50

ZenShield® 풀 실드와 다중 접점 그라운드 구조로 EMI 대책 강화



에카니컬 록 바를 통한 불완전 결합 방지와 플러그 빠짐 방지



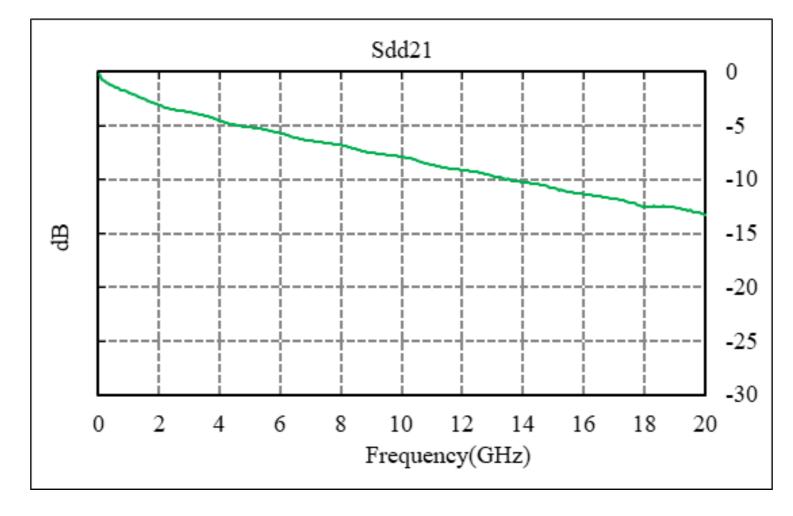
우수한 차동 SI 성능

Test material:

CABLINE-CA II harness (GND finger type)

Cable: Micro-coaxial AWG #38 45Ω

Cable Length: 320mm



Sdd11 0 -10 -20 -30 -40 Frequency(GHz)

Insertion Loss

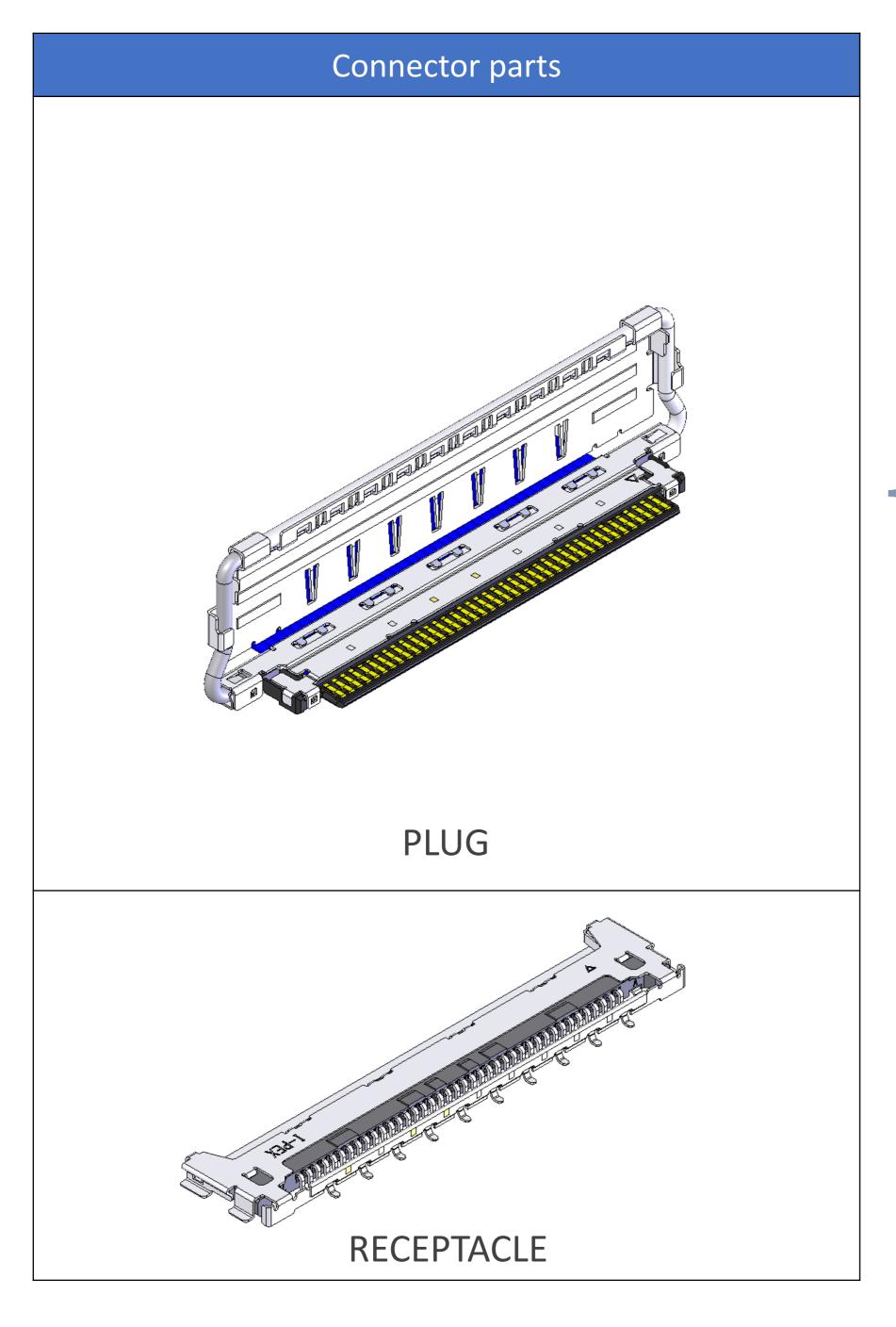
Return Loss

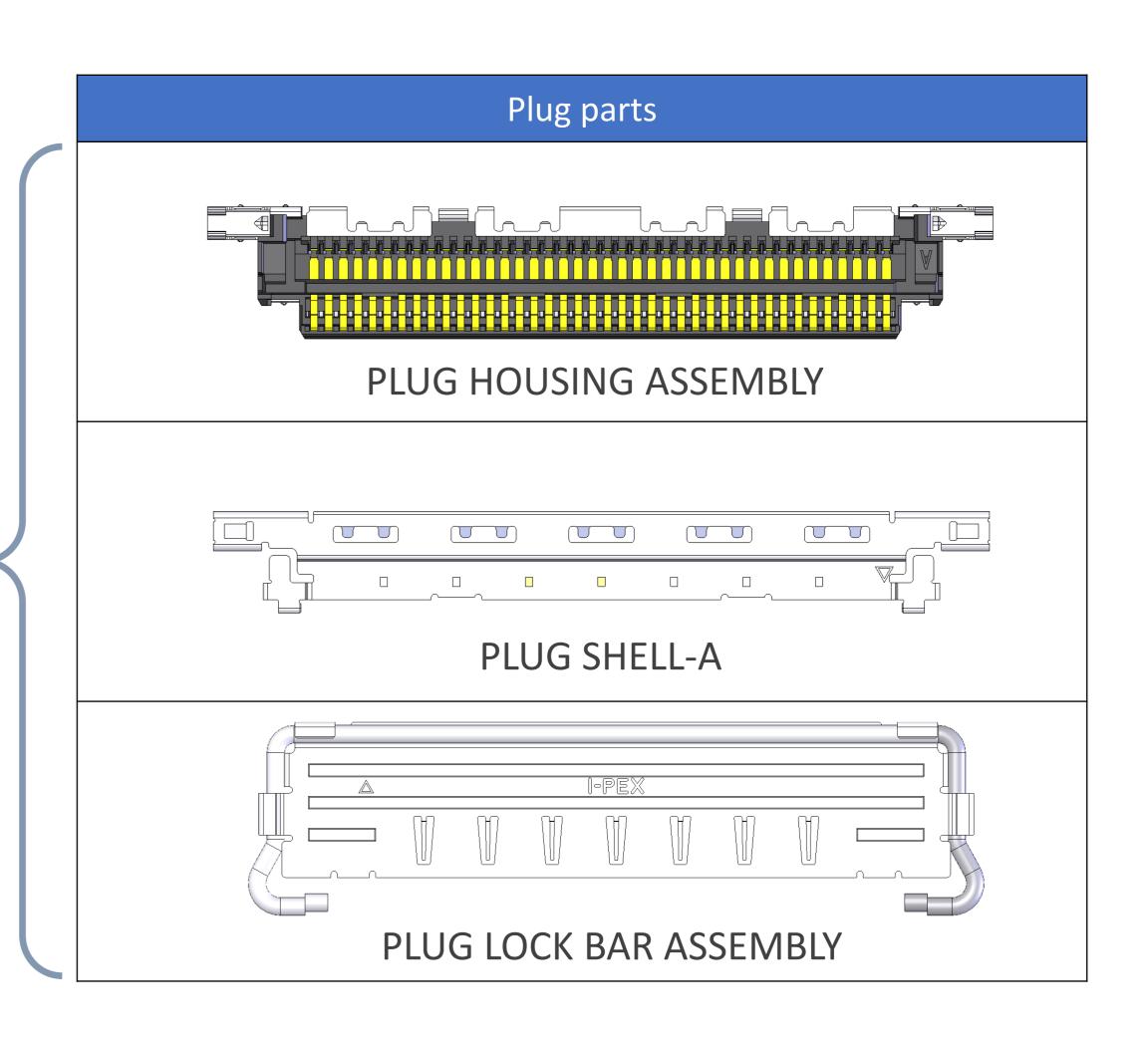


^{*}기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁 드립니다.
* CABLINE-CA II PLUS(wider space 타입)에서는 60p의 핀 수도 준비되어 있습니다.

Component Parts Details

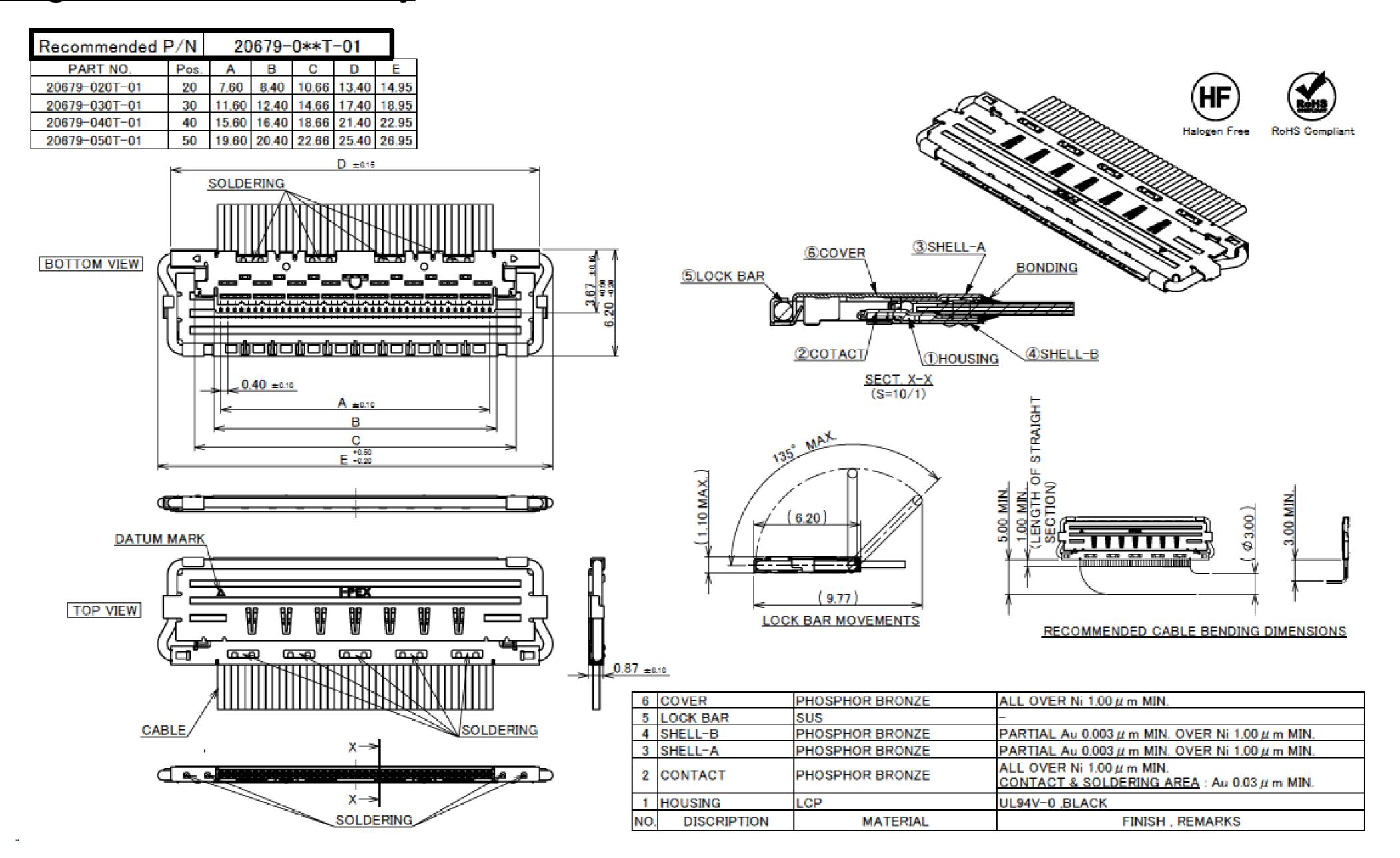
Component Parts



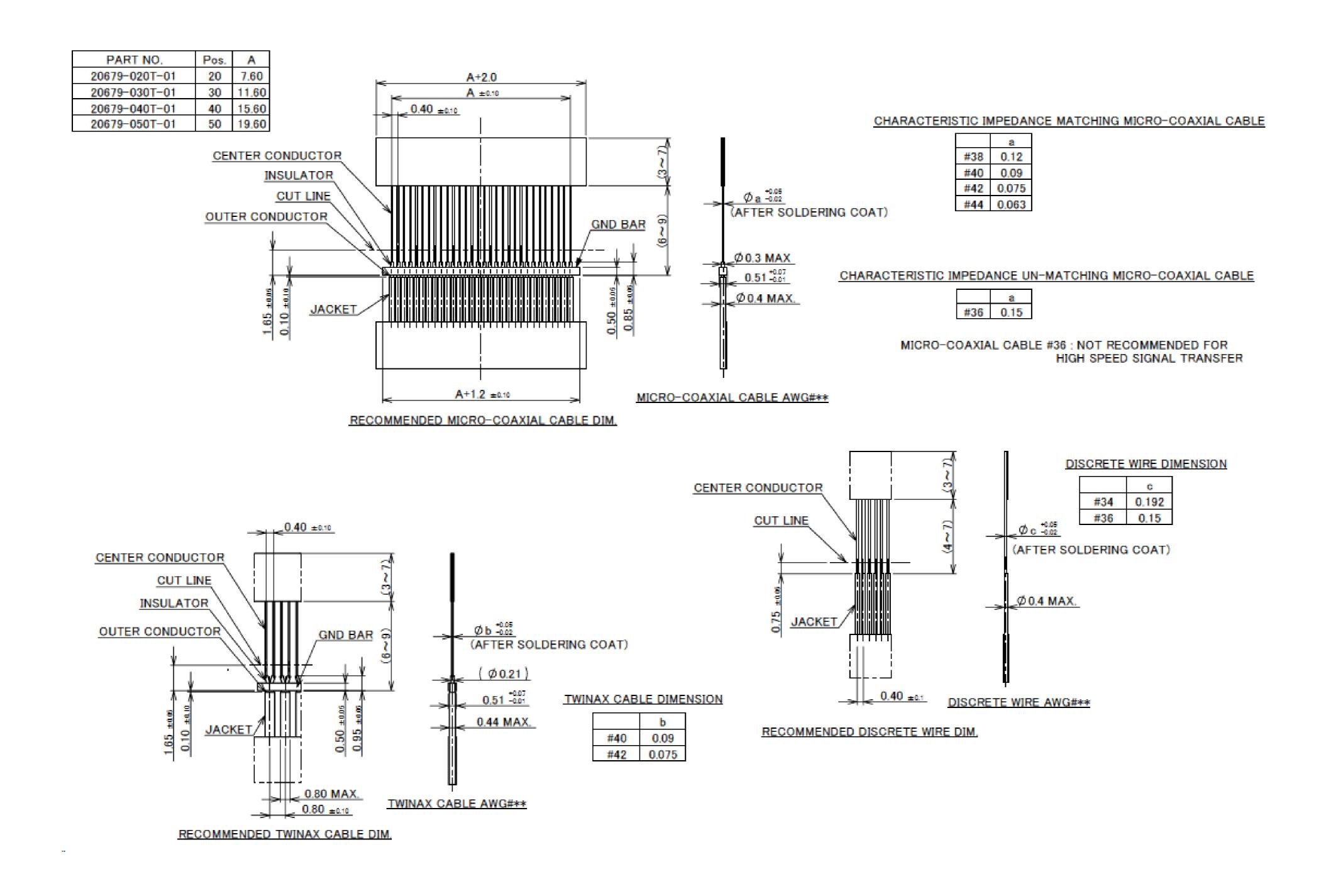




Plug for Cable Assembly



Rev.9



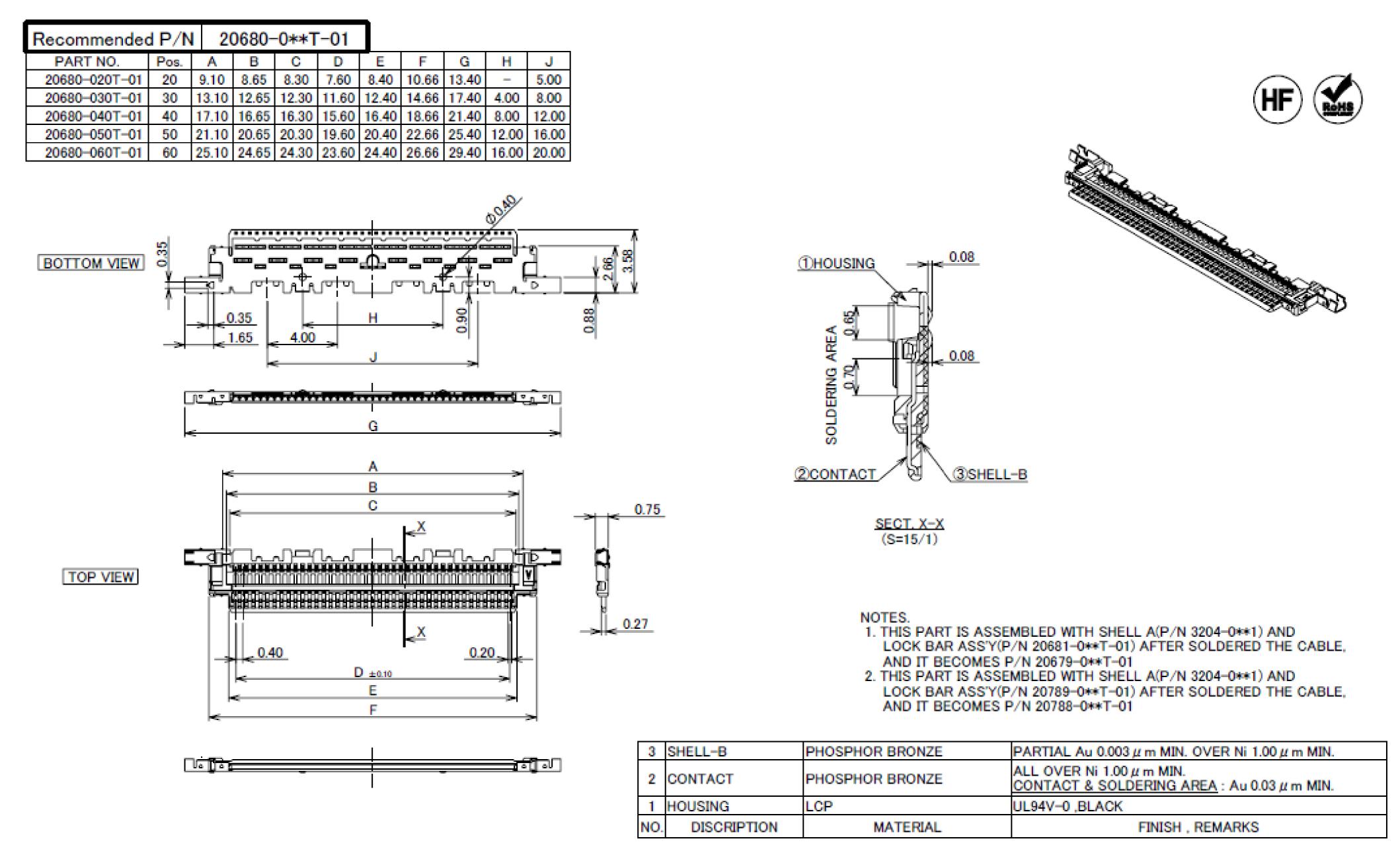


Plug for Cable Assembly

ITEMS	SPECIFICATION			
ADDITO ADI E OADI E	MICRO-COAXIAL CABLE: AWG# 44, 42, 40, 38, 36			
APPLICABLE CABLE	DISCRETE WIRE: AWG# 36, 34 TWINAX CABLE: AWG# 40, 42			
RATING VOLTAGE	100V AC (PER CONTACT PIN)			
TOTTING TOETAGE	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 50 CONTACTS			
RATING AMPERAGE (FOR CONTACT)	0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 50 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 50 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 18 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 6 CONTACTS **TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION			
OPERATING TEMPERATURE	248~378K(-40°C~105°C)			
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)			
CONTACT RESISTANCE	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: 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 30 CYCLES)	20P : 9.70N MAX. 30P : 14.55N MAX. 40P : 19.40N MAX. 50P : 24.25N MAX.			
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.			
CABLE RETENTION FORCE	20P : 9.80N MIN. 30P : 14.70N MIN. 40P : 19.60N MIN. 50P : 24.50N MIN.			
PRODUCT SPECIFICATION	PRS-2163			
TEST REPORT	TR-15103			
INSTRUCTION MANUAL	HIM-15033			
ASSEMBLY MANUAL	ASM-15005			
APPEARANCE CRITERIA NO.	QLS-A***			

Rev.9

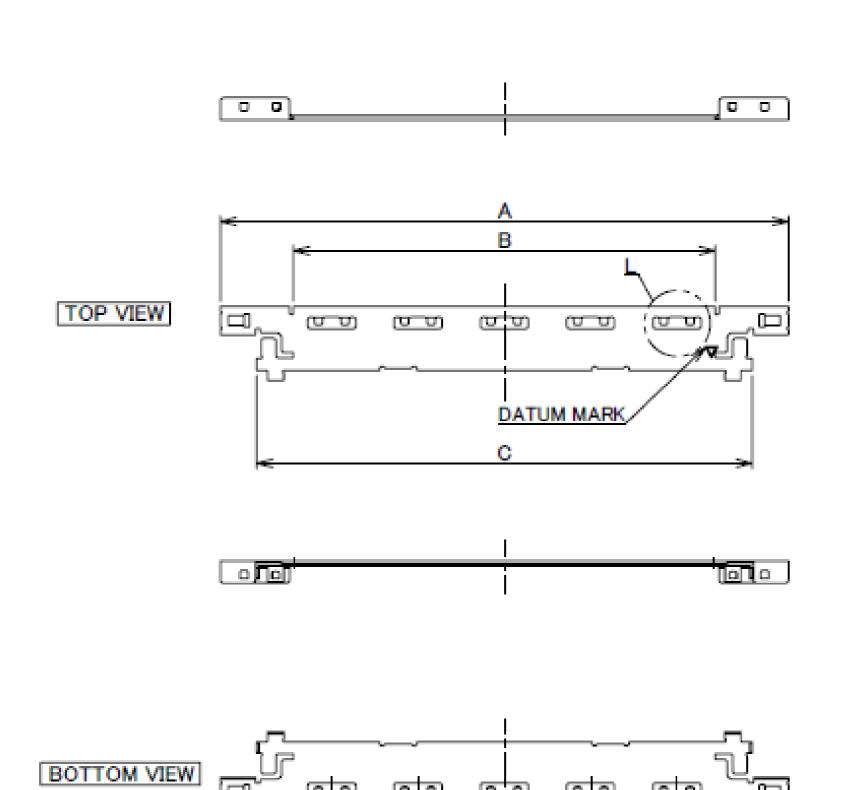
Plug Housing Assembly



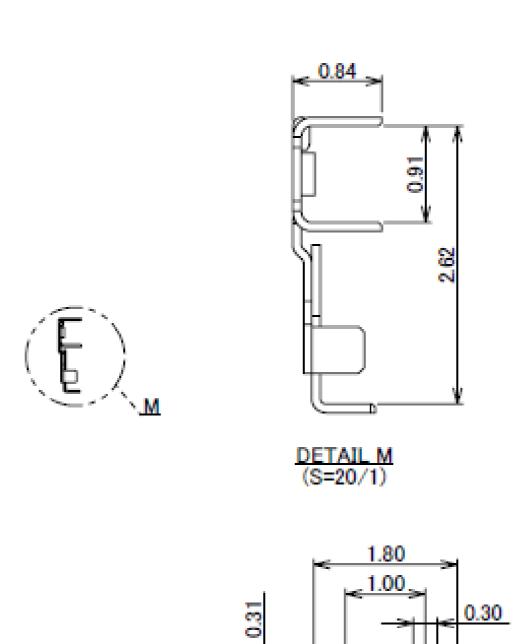


Plug Shell-A

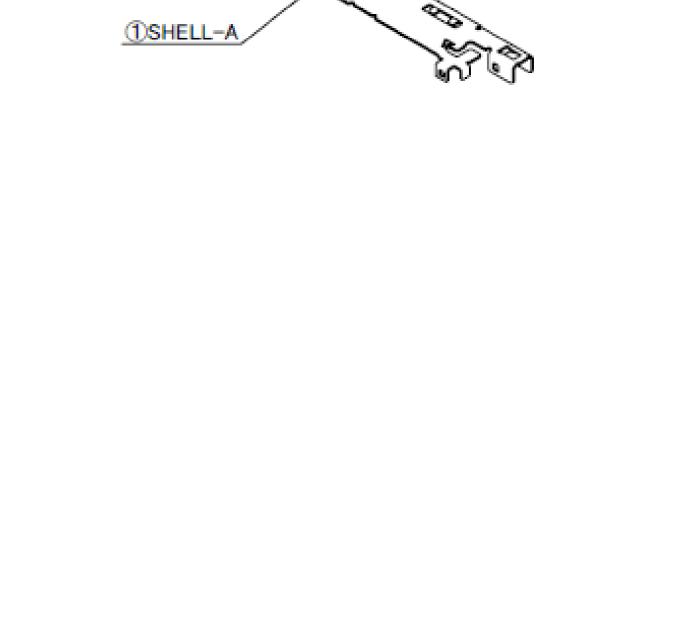
Recommended P/N		1	3204-0**1			
PART NO.	Pos.	Α	В	С	D	E
3204-0201	20	13.40	7.88	10.66	2.50	5.00
3204-0301	30	17.40	11.88	14.66	3.00	9.00
3204-0401	40	21.40	15.88	18.66	3.25	13.00
3204-0501	50	25.40	19.88	22.66	3.40	17.00
3204-0601	60	29.40	23.88	26.66	4.00	20.00



 $E = D \times (n-1)$



DETAIL L (S=15/1)



	1	SHELL-A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
ı	VO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.7

Lock Bar Assembly

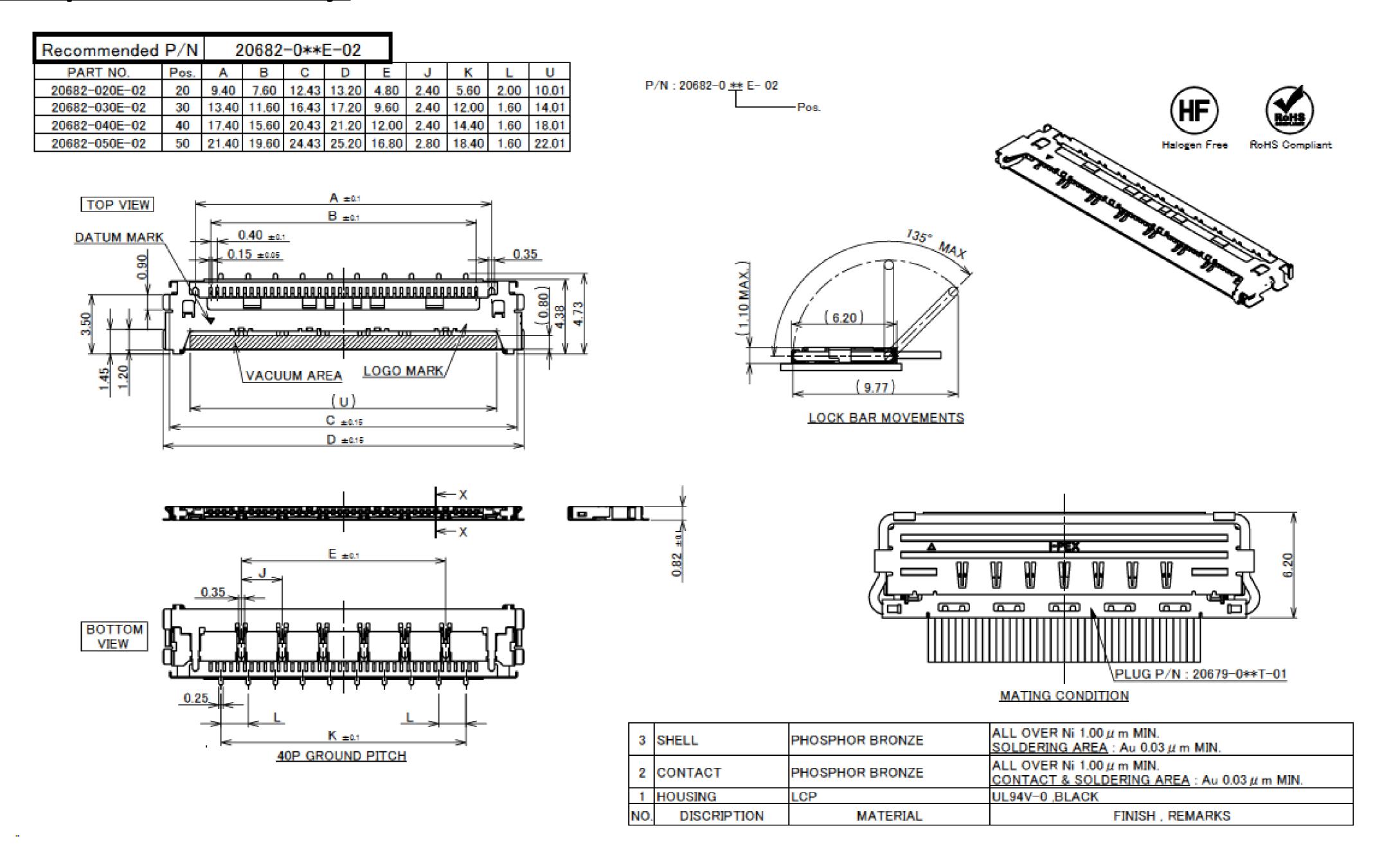
PART NO. Pos. A B C 20681-020T-01 20 12.65 13.85 4.00 20681-030T-01 30 16.65 17.85 8.00 20681-040T-01 40 20.65 21.85 12.00 20681-050T-01 50 24.65 25.85 16.00		HF C
		② COVER
DATUM MARK 0.60 2.00 C (B)	0.93	① LOCK BAR

2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
1	LOCK BAR	SUS Ø 0.55	
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS



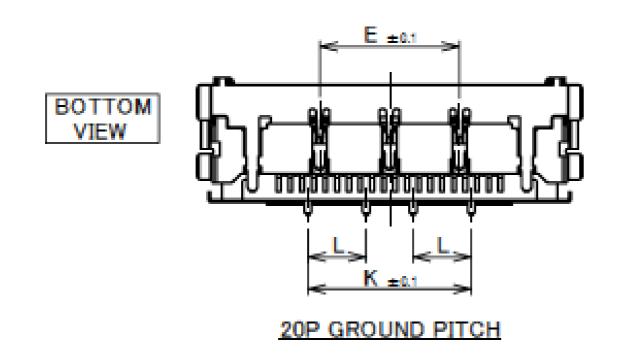


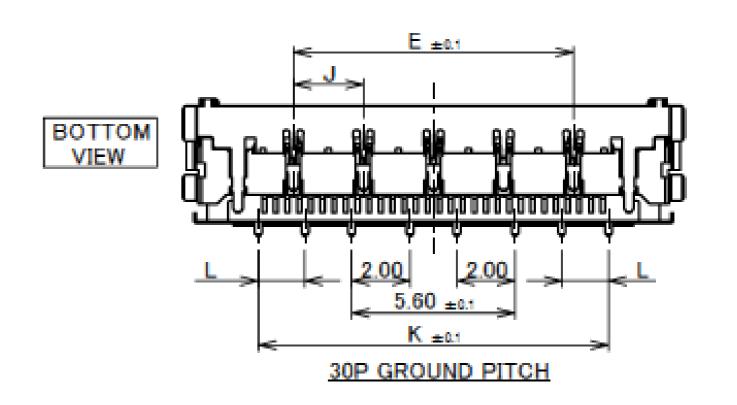
Receptacle Assembly

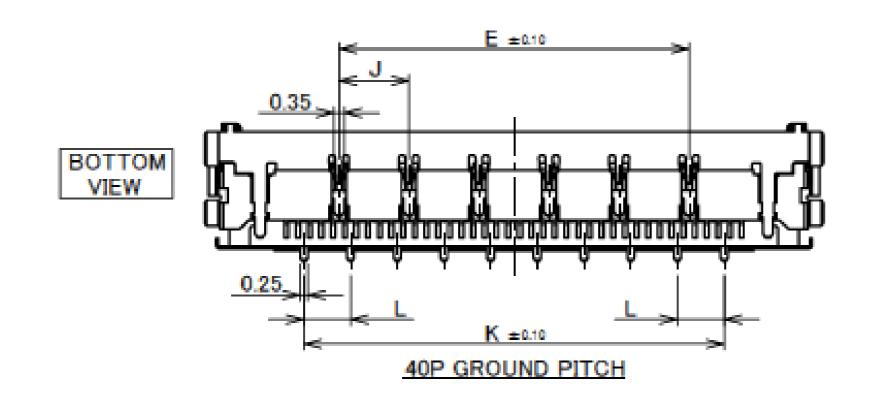


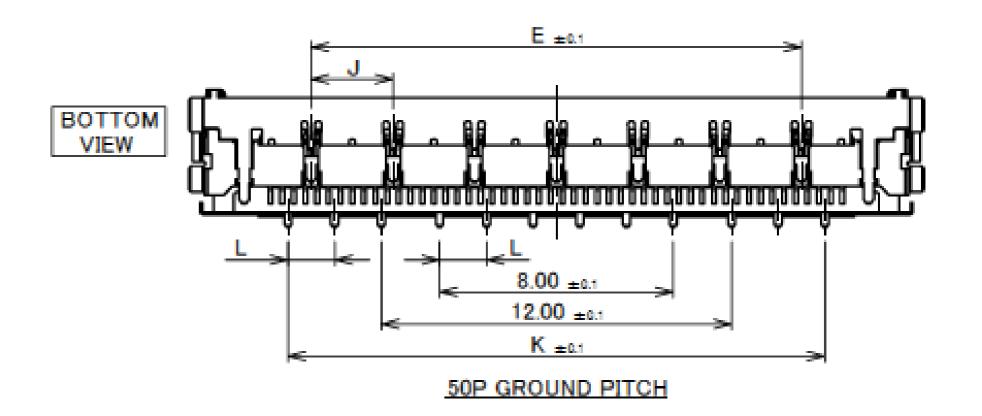
Rev.13

PART NO.	Pos.	E	J	K	L
20682-020E-02	20	4.80	2.40	5.60	2.00
20682-030E-02	30	9.60	2.40	12.00	1.60
20682-040E-02	40	12.00	2.40	14.40	1.60
20682-050E-02	50	16.80	2.80	18.40	1,60





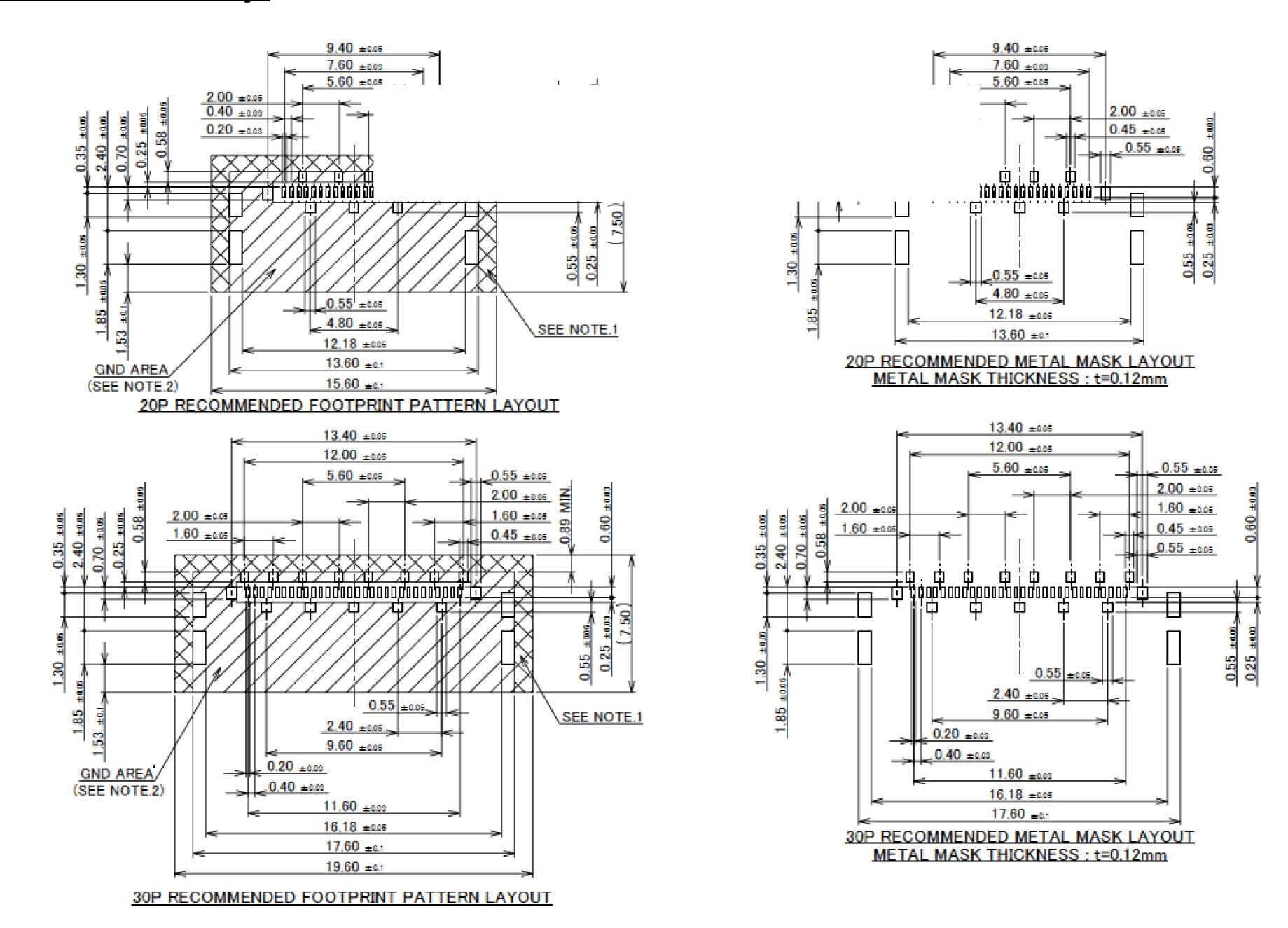




Rev.13

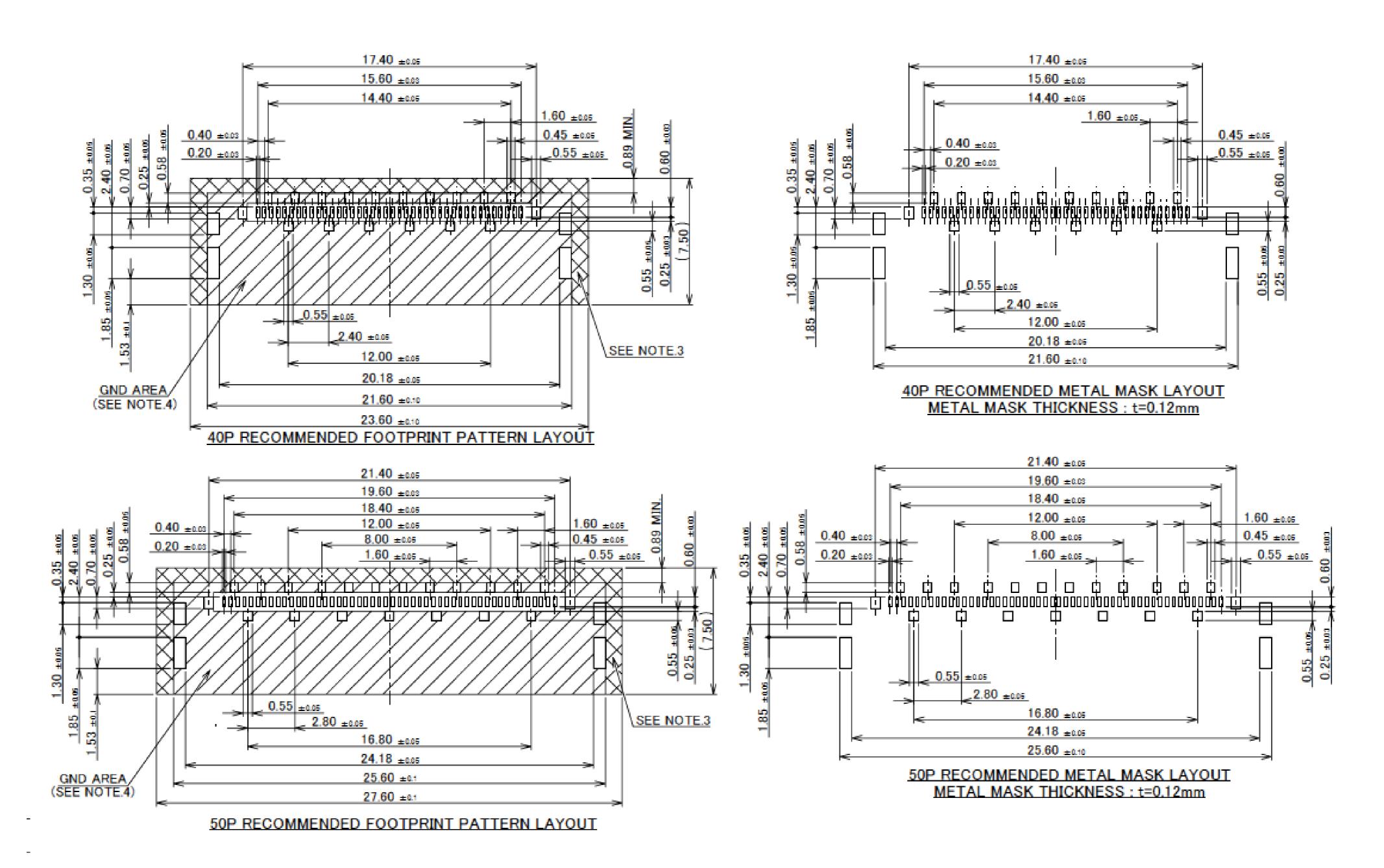


Receptacle Assembly



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

Rev.13

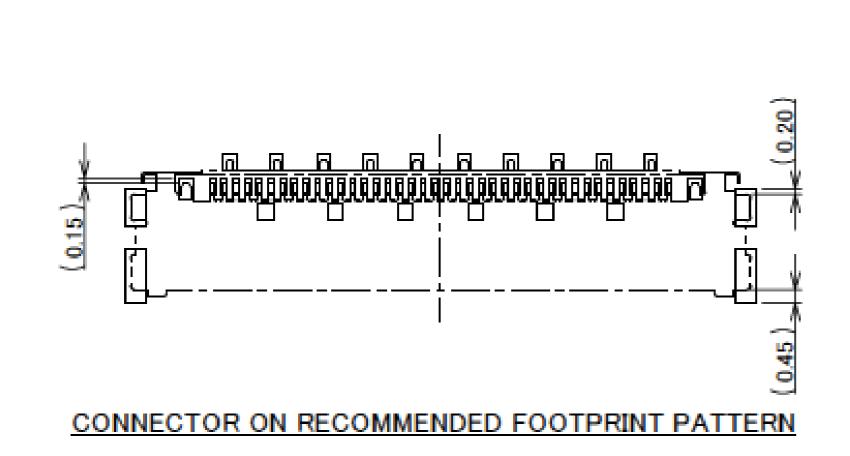


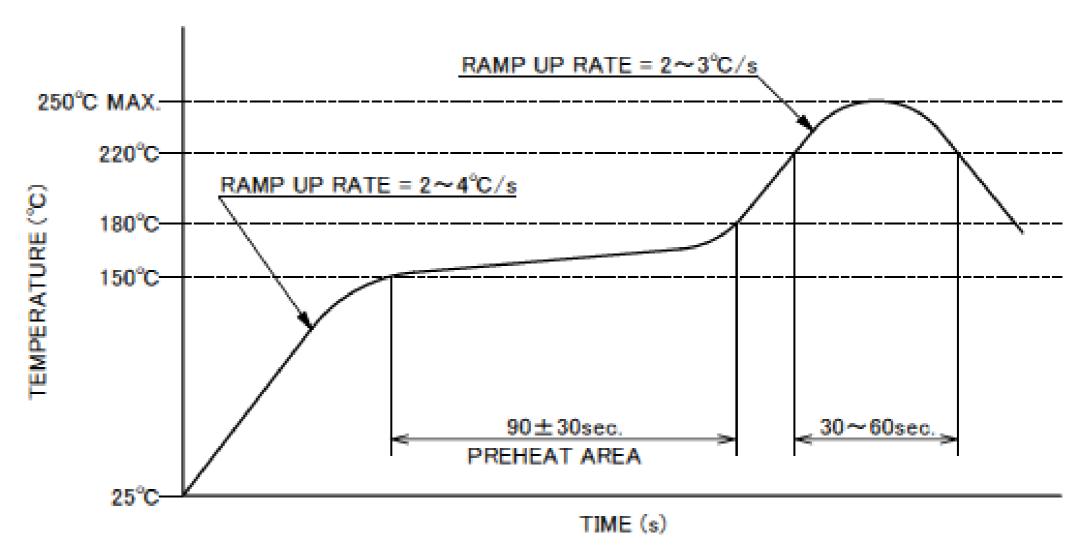
NOTES.

- DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
- SOLDER RESIST MUST BE APPLIED TO THIS AREA.



Receptacle Assembly





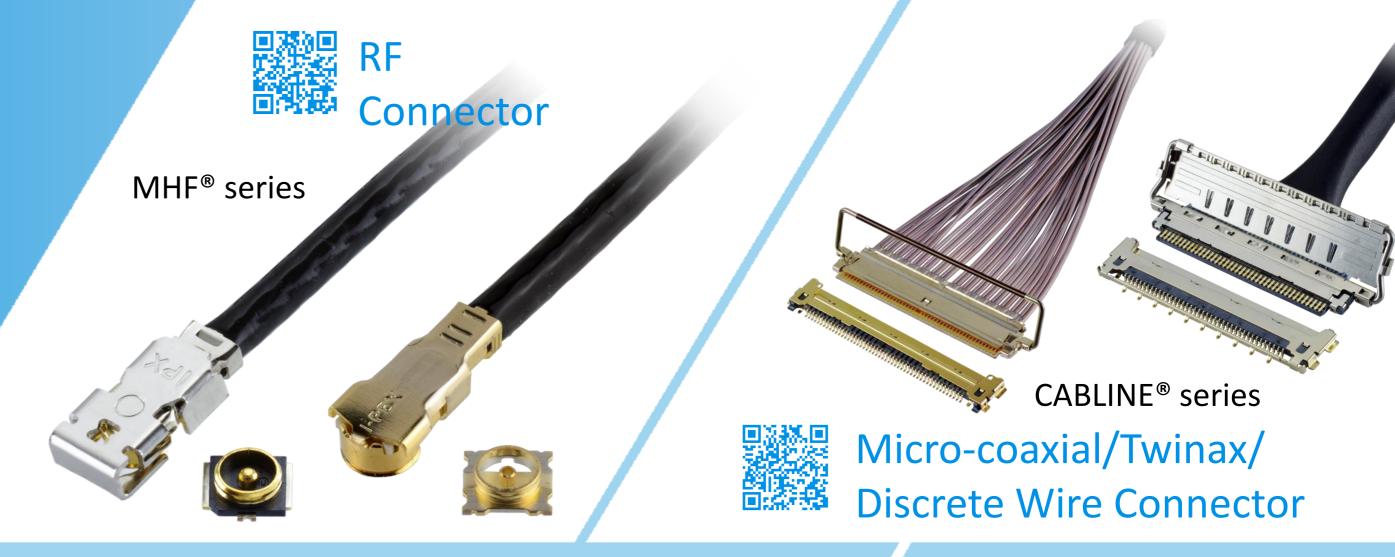
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

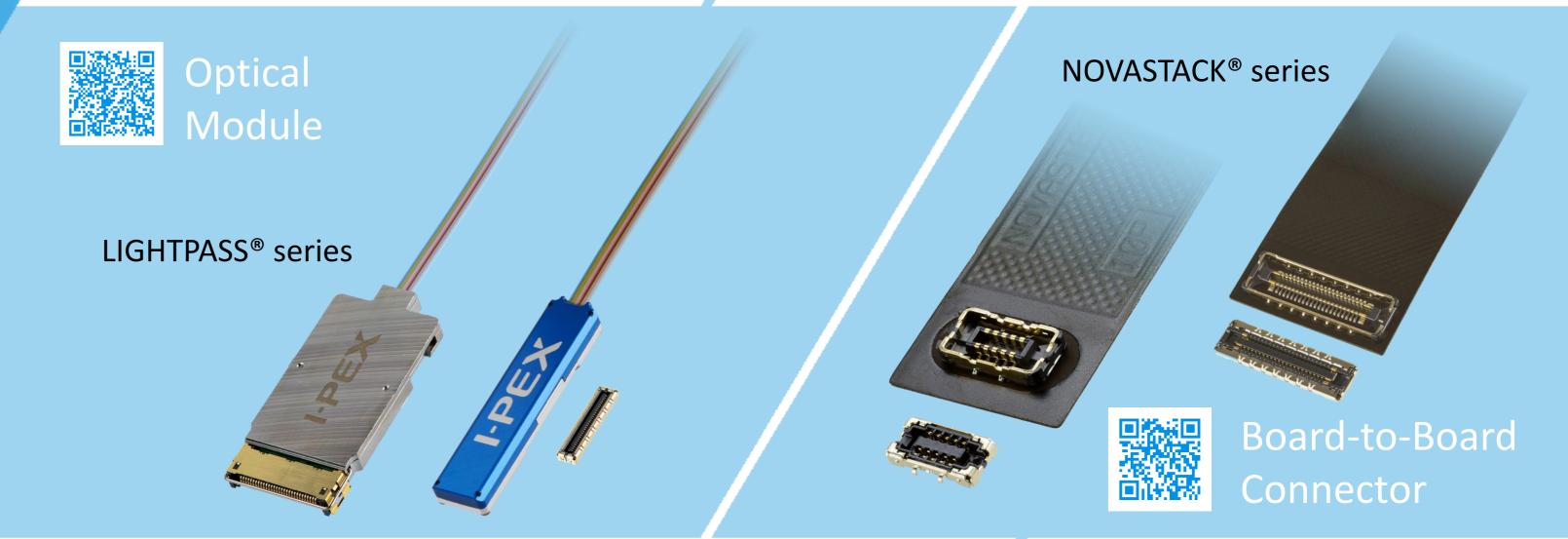
Rev.13

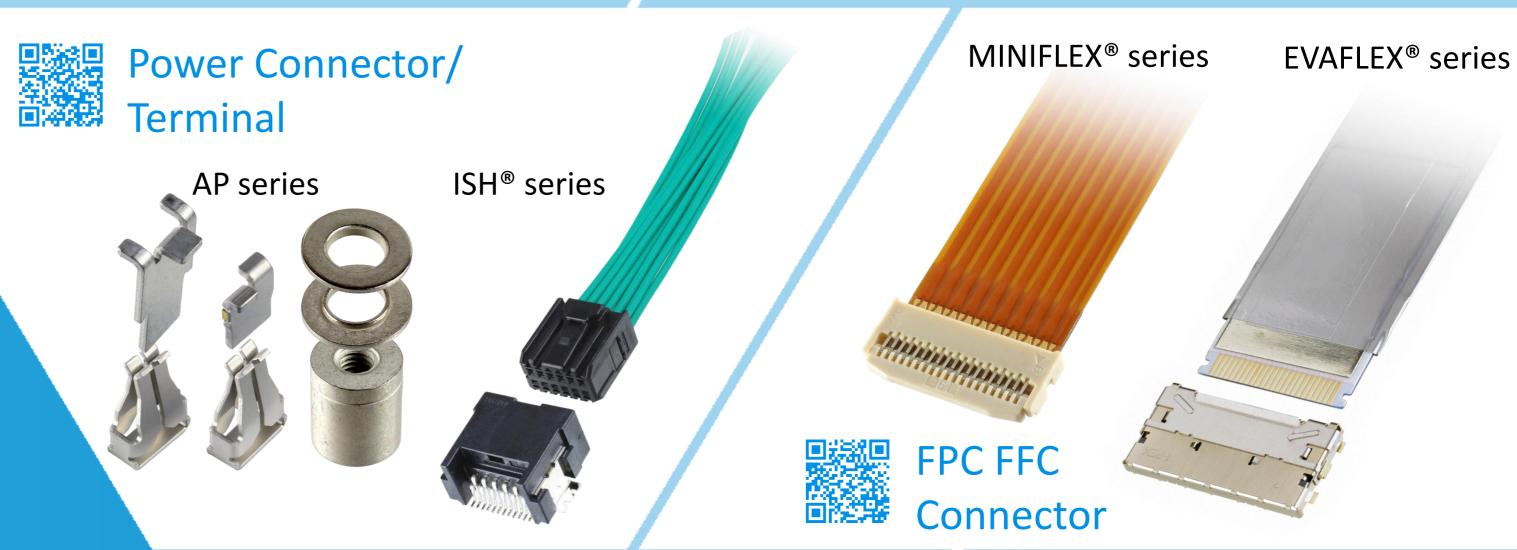
ITEMS	SPECIFICATION			
	MICRO-COAXIAL : AWG# 44 , 42 , 40 , 38 , 36			
APPLICABLE CABLE	DISCRETE WIRE: AWG# 36, 34			
	TWINAX CABLE: AWG# 40, 42			
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OPERATING TEMPERATURE	233~378K(−40°C~105°C)			
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)			
CONTACT 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)			
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INSULATION RESISTANCE	INITIAL: 1000Mohm MIN. / AFTER TEST: 500Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min			
DURABILITY	30 CYCLES			
MATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 9.70N MAX. 30P : 14.55N MAX. 40P : 19.40N MAX. 50P : 24.25N MAX.			
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.			
CABLE RETENTION FORCE	20P : 9.70N MIN. 30P : 14.55N MIN. 40P : 19.40N MIN. 50P : 24.25N MIN.			
COPLANARITY	0.10 MAX.			
PRODUCT SPECIFICATION	PRS-2163			
TEST REPORT	TR-15103			
INSTRUCTION MANUAL	HIM-15033			
PACKING STANDARD	PST-15027			
APPEARANCE CRITERIA No. QLS-A***				



Custom Connectors Available









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