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

Available

Pin Counts

Applicable Cable Size:	
Maximum O.D. (mm	n) 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

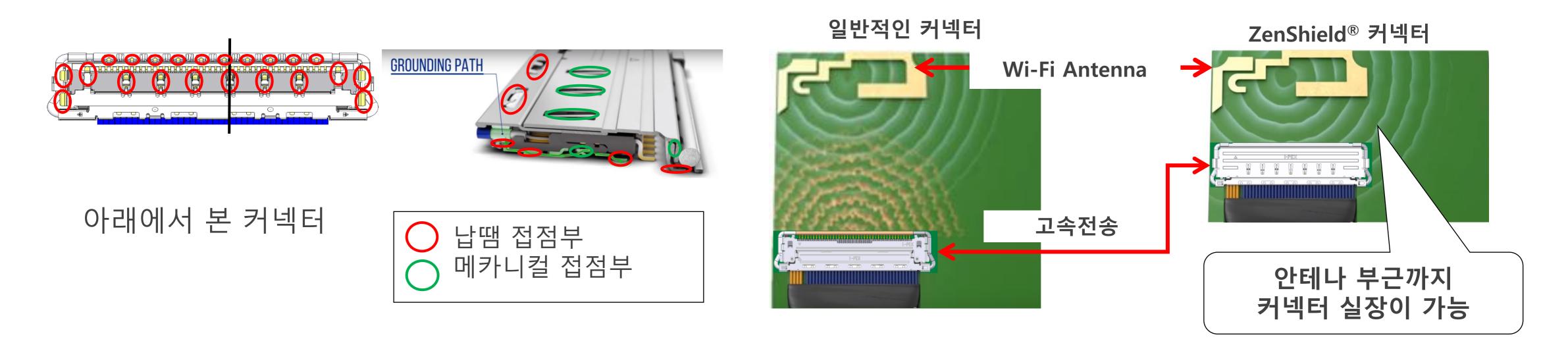
Applicable Standards (Reference Only):

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

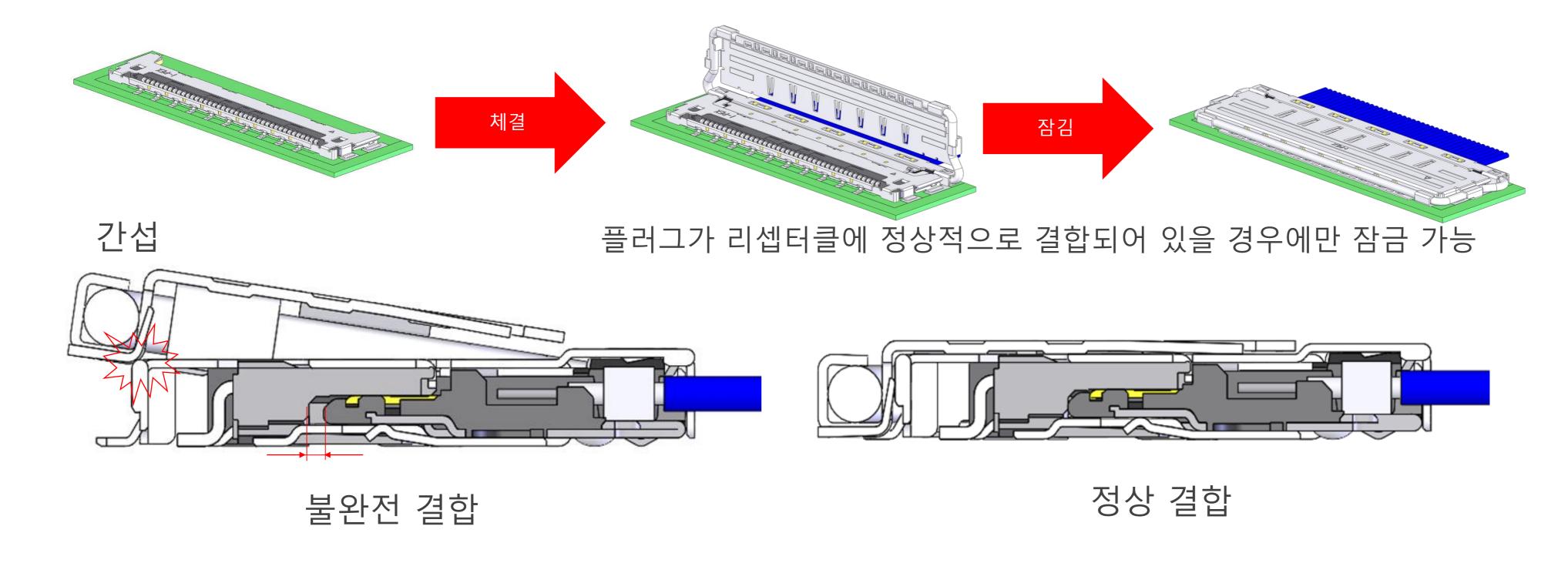
*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁 드립니다.
* CABLINE-CA II PLUS(wider space 타입)에서는 60p의 핀 수도 준비되어 있습니다.

20, 30, 40, 50

ZenShield® 풀 실드와 다중 접점 그라운드 구조로 EMI 대책 강화



에카니컬 록 바를 통한 불완전 결합 방지와 플러그 빠짐 방지



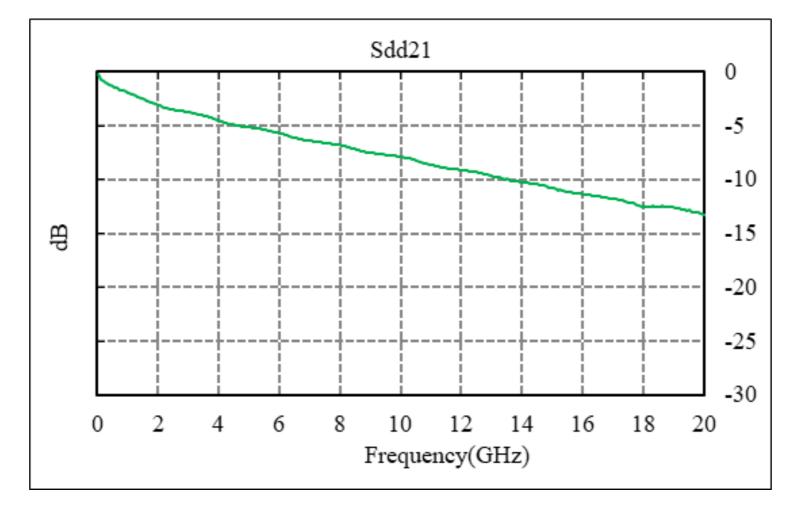
우수한 차동 SI 성능

Test material:

CABLINE-CA II harness (GND finger type)

Cable: Micro-coaxial AWG #38 45Ω

Cable Length: 320mm



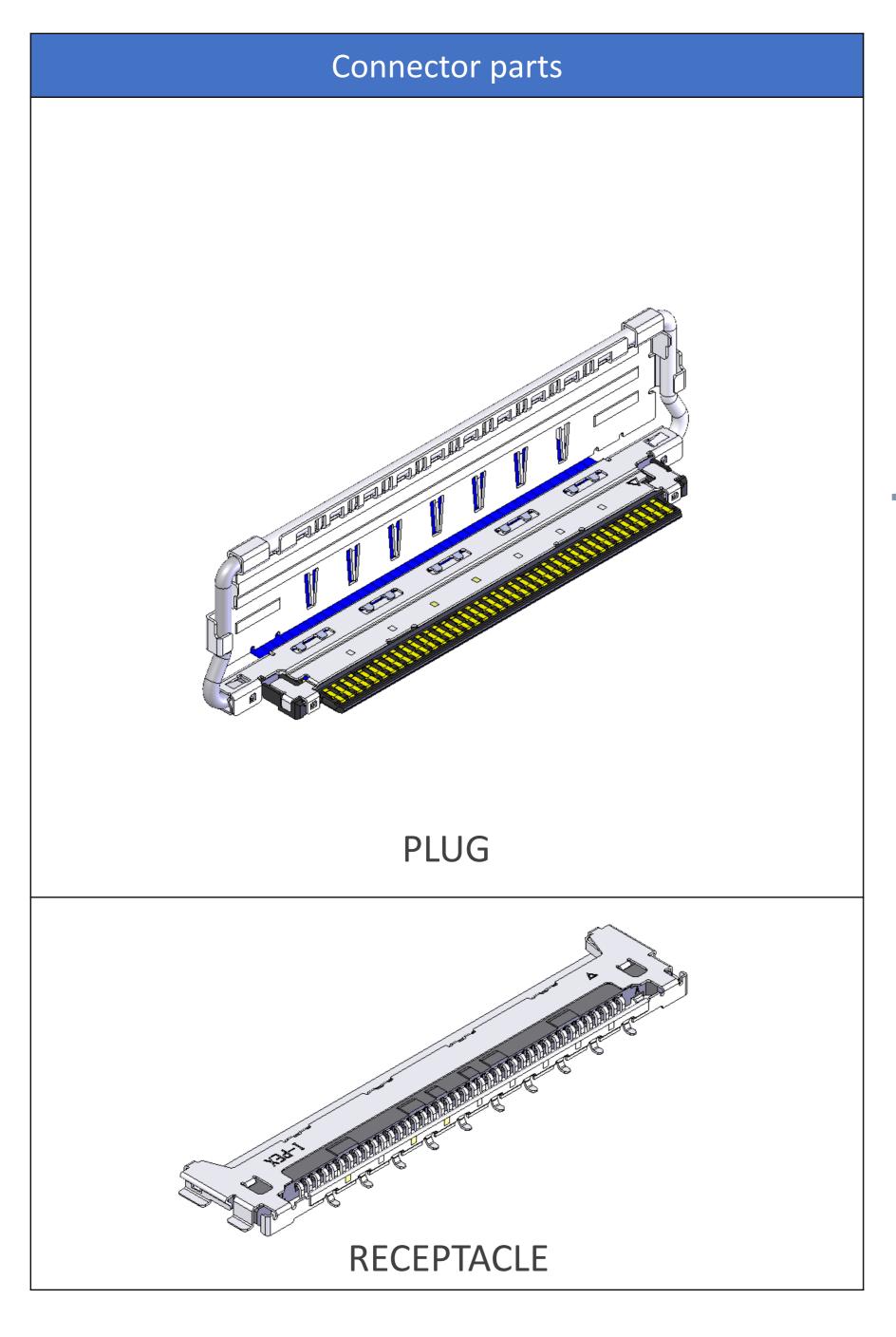
Insertion Loss

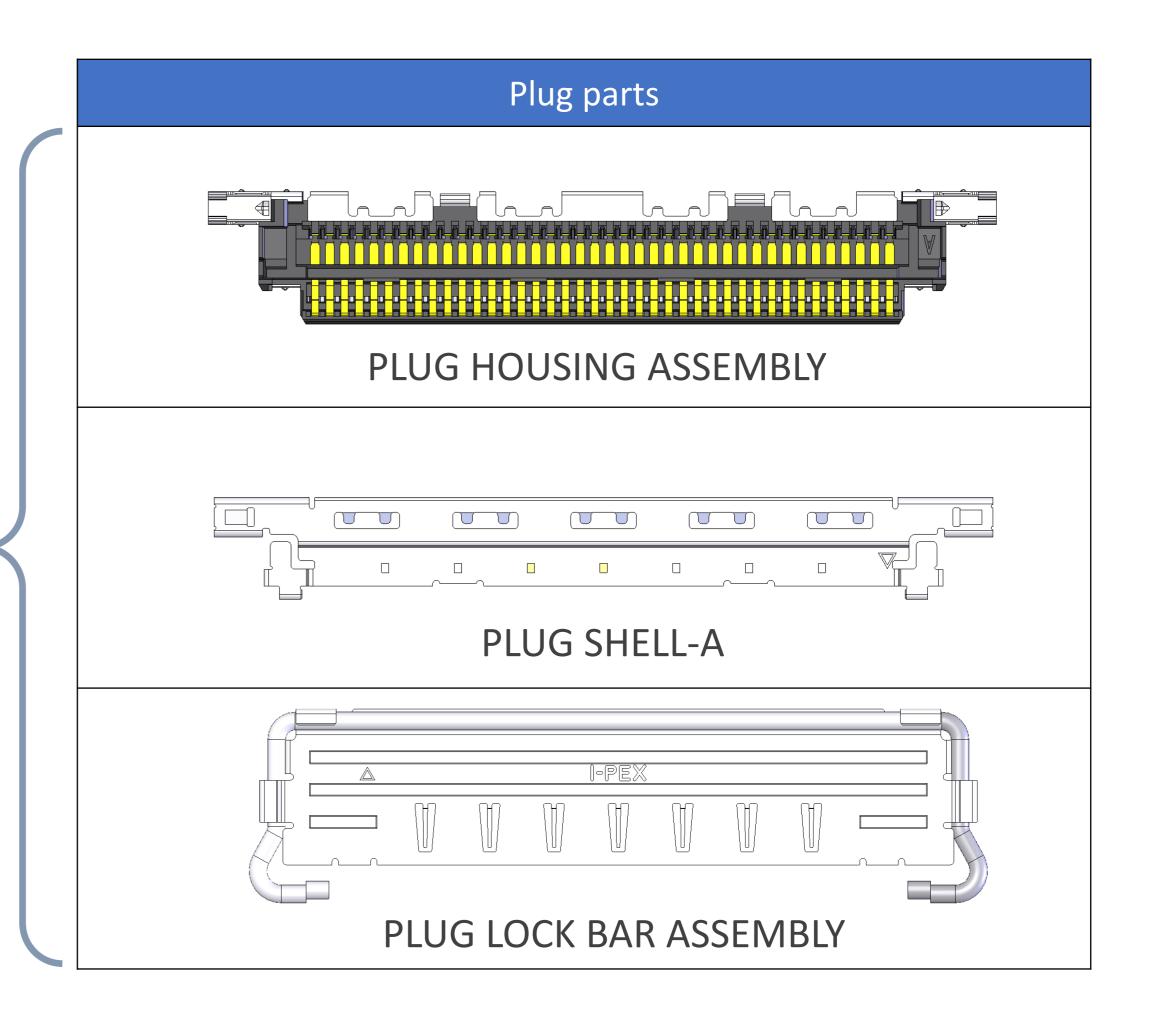
Return Loss



Component Parts Details

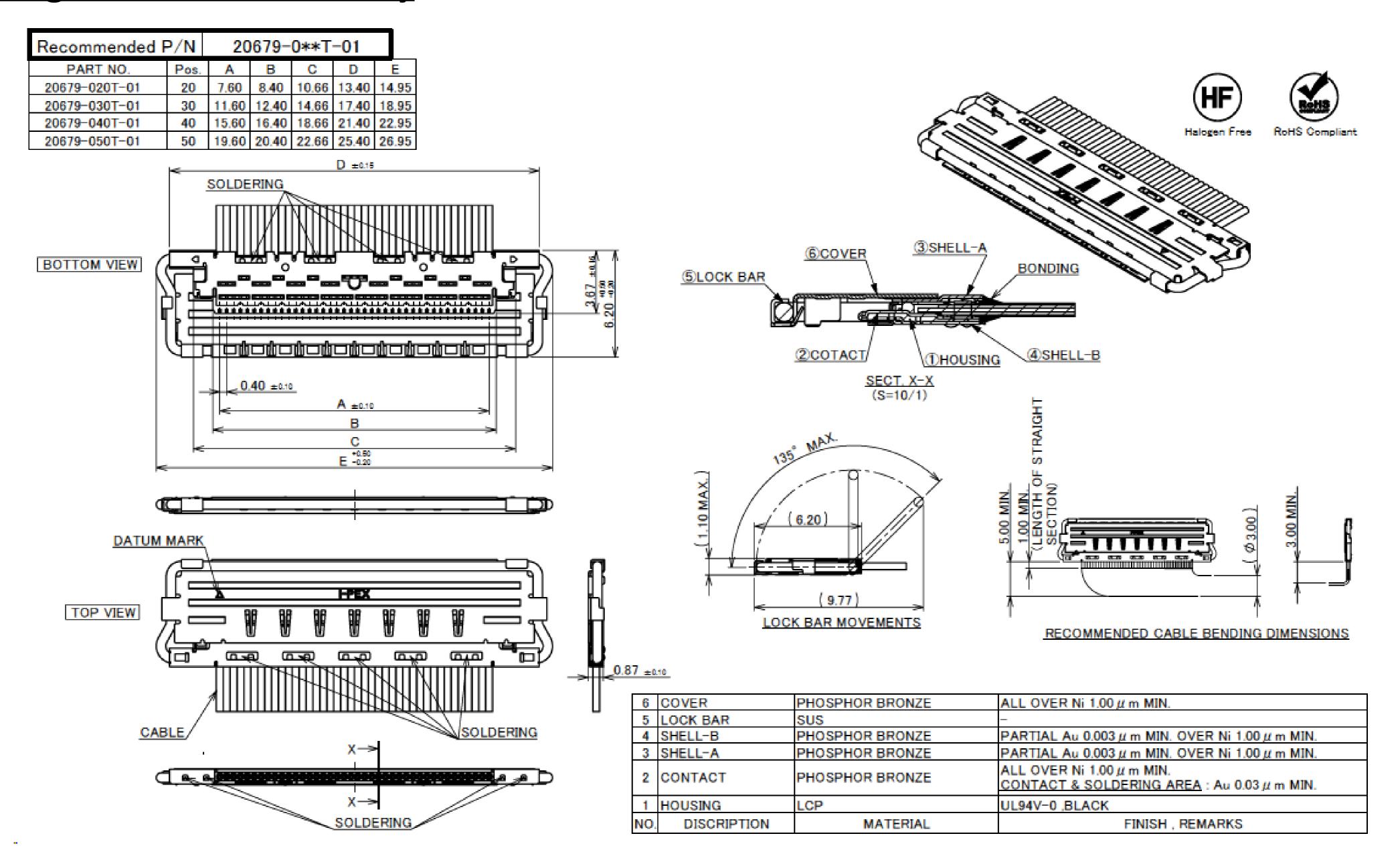
Component Parts



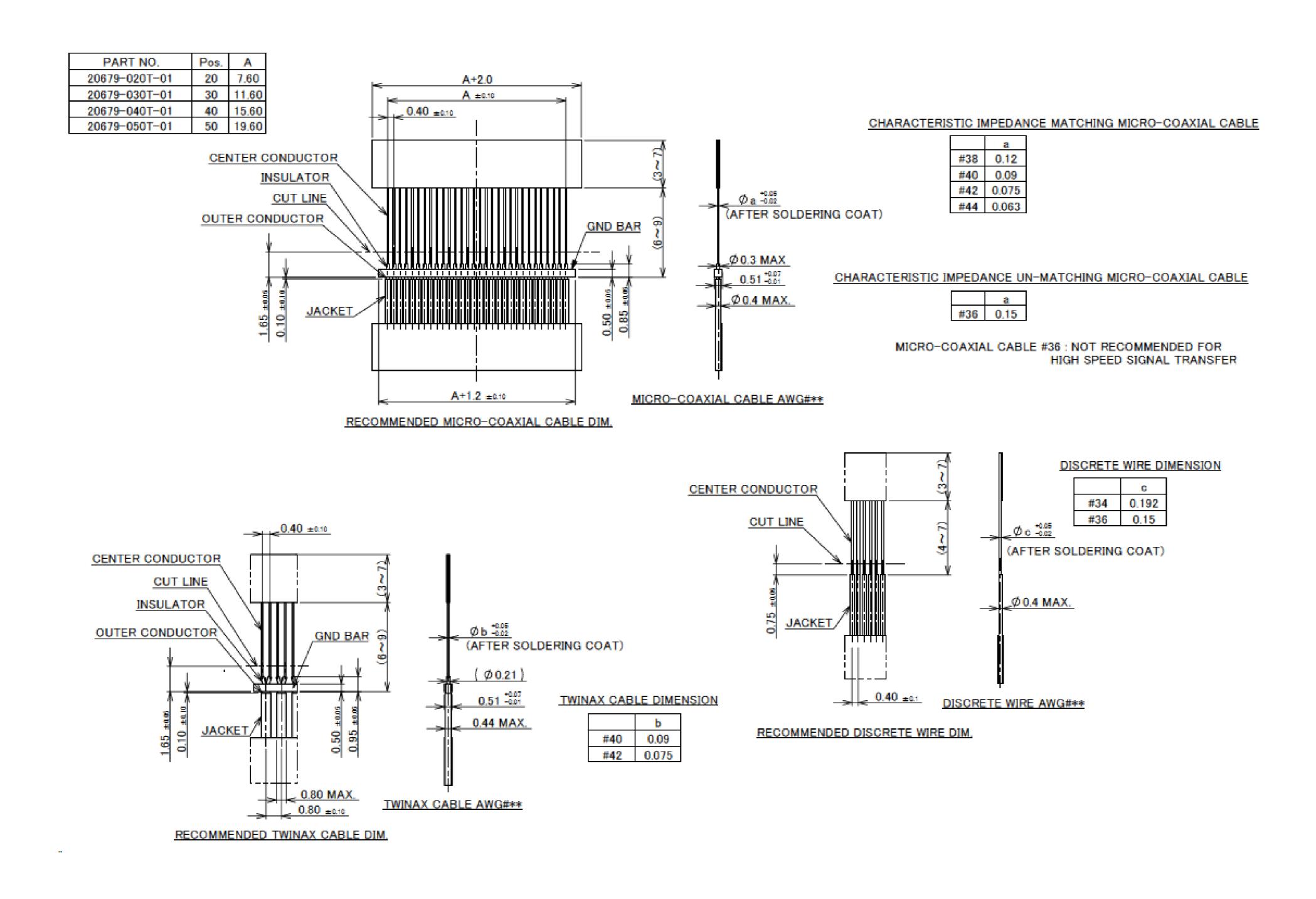




Plug for Cable Assembly



Rev.9



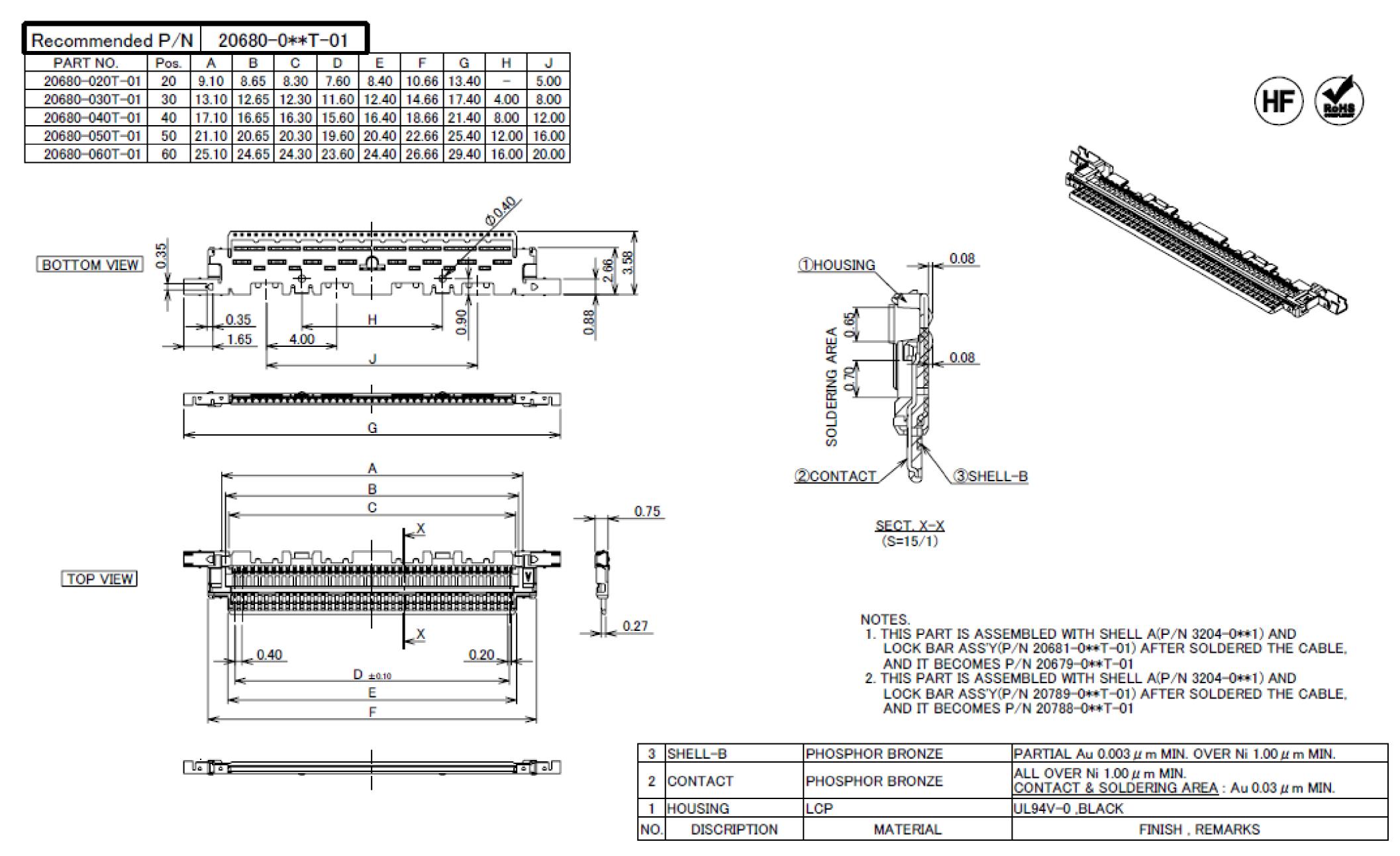


Plug for Cable Assembly

ITEMS	SPECIFICATION		
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 44, 42, 40, 38, 36		
	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

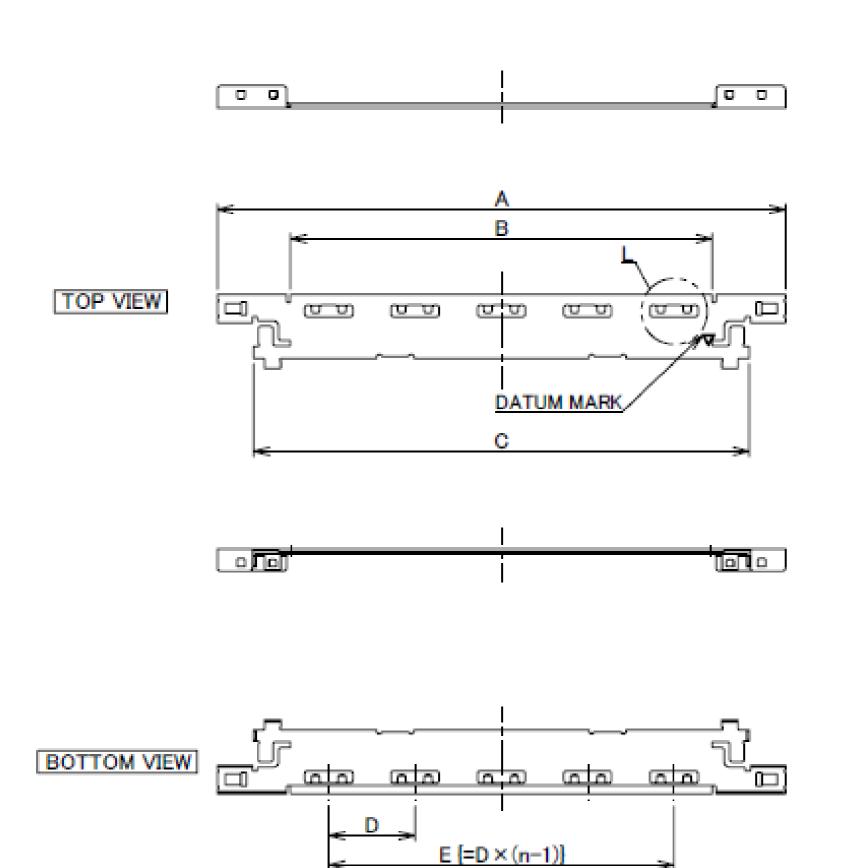
Plug Housing Assembly

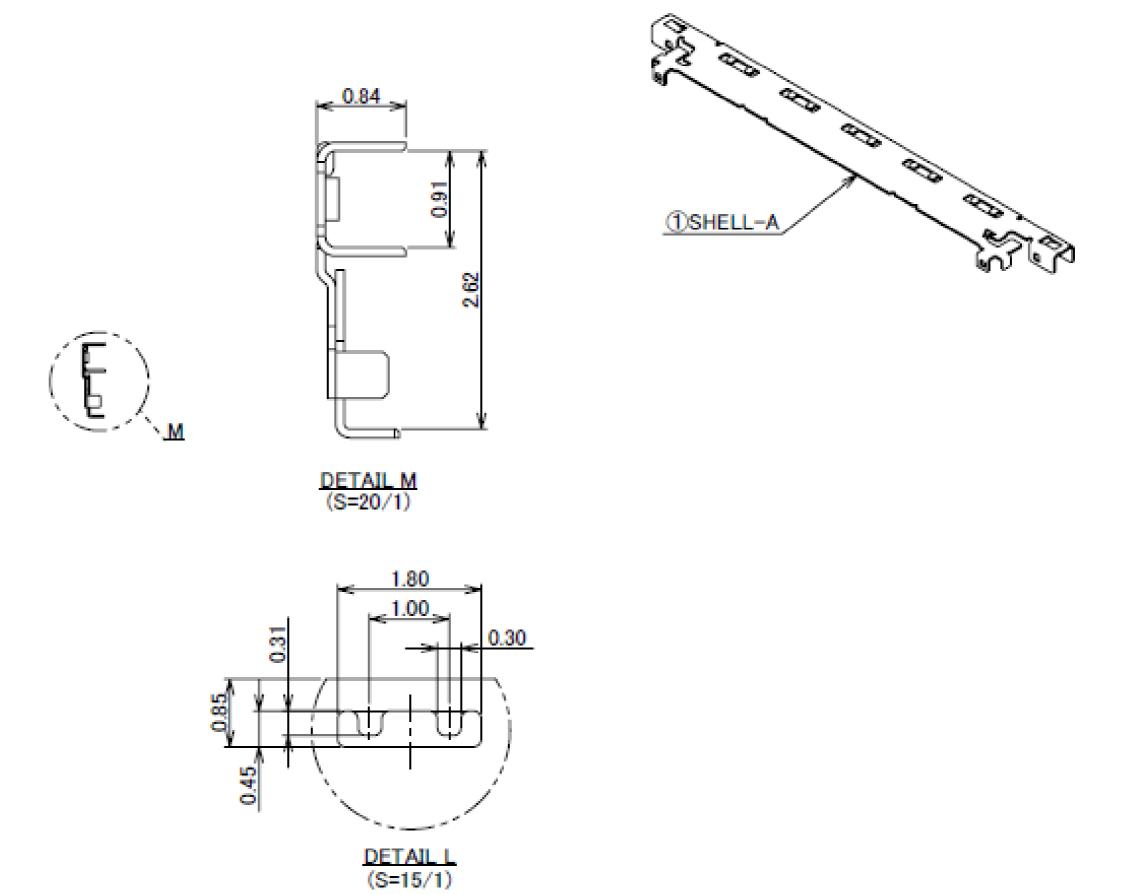




Plug Shell-A

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





1 SHELL-A PHOSPHOR BRONZE PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO. DISCRIPTION MATERIAL FINISH , REMARKS

Rev.7

Lock Bar Assembly

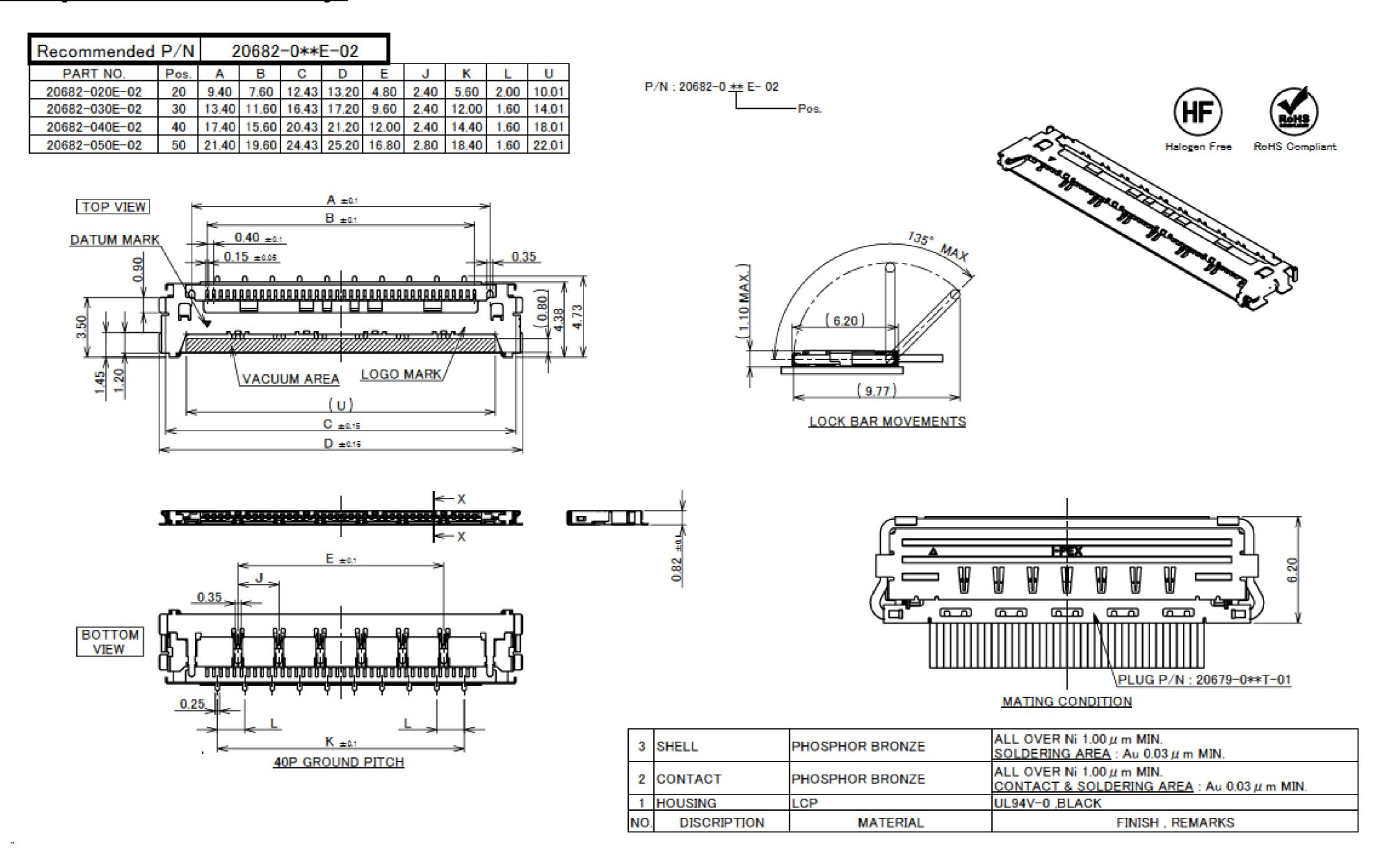
Recommended P/N 20681-0**T-01 PART NO. Pos. A B C 20681-020T-01 20 12.65 13.85 4.00 20681-030T-01 30 16.65 17.85 8.00 20681-040T-01 40 20.65 21.85 12.00 20681-050T-01 50 24.65 25.85 16.00		(2) COVER
DATUM MARK 0.60 2.00 C B 1.93	0.93	① LOCK BAR





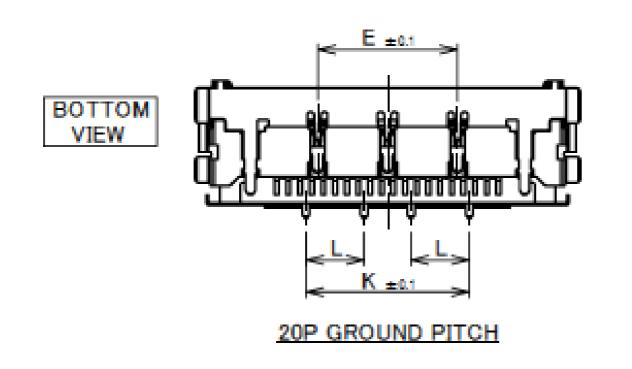


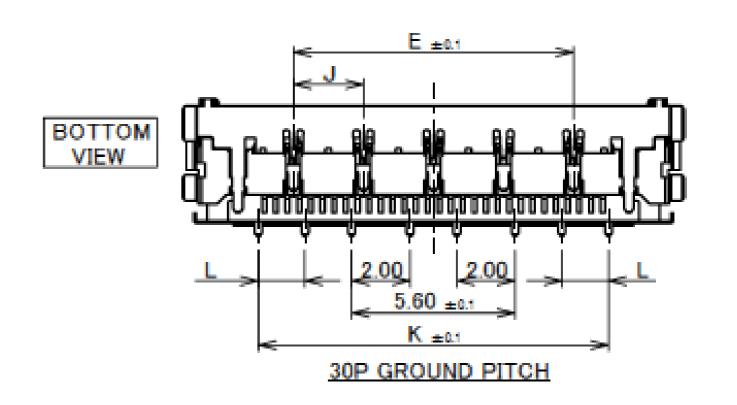
Receptacle Assembly

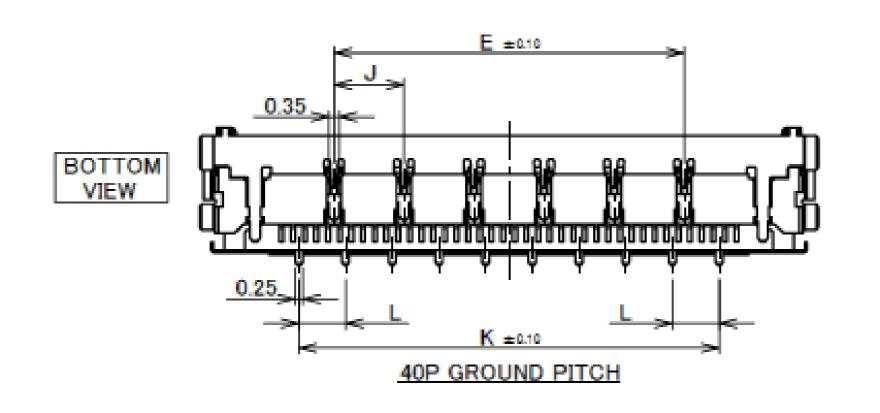


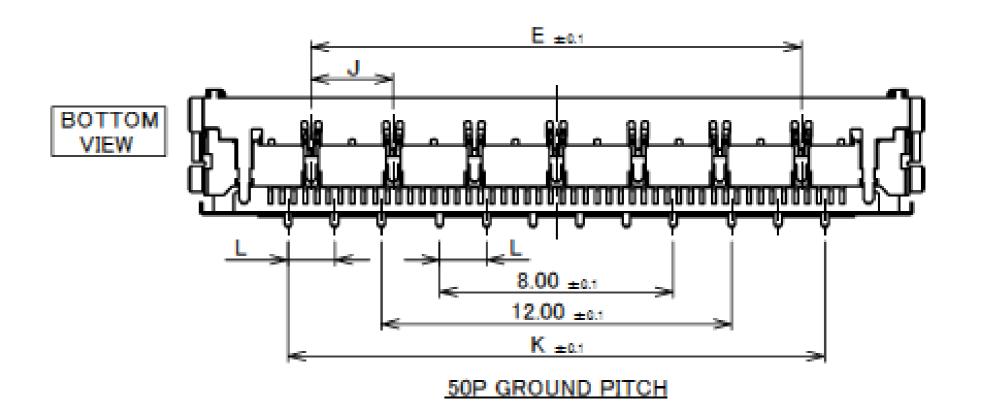
Rev.13

PART NO.	Pos.	Е	J	K	٦
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





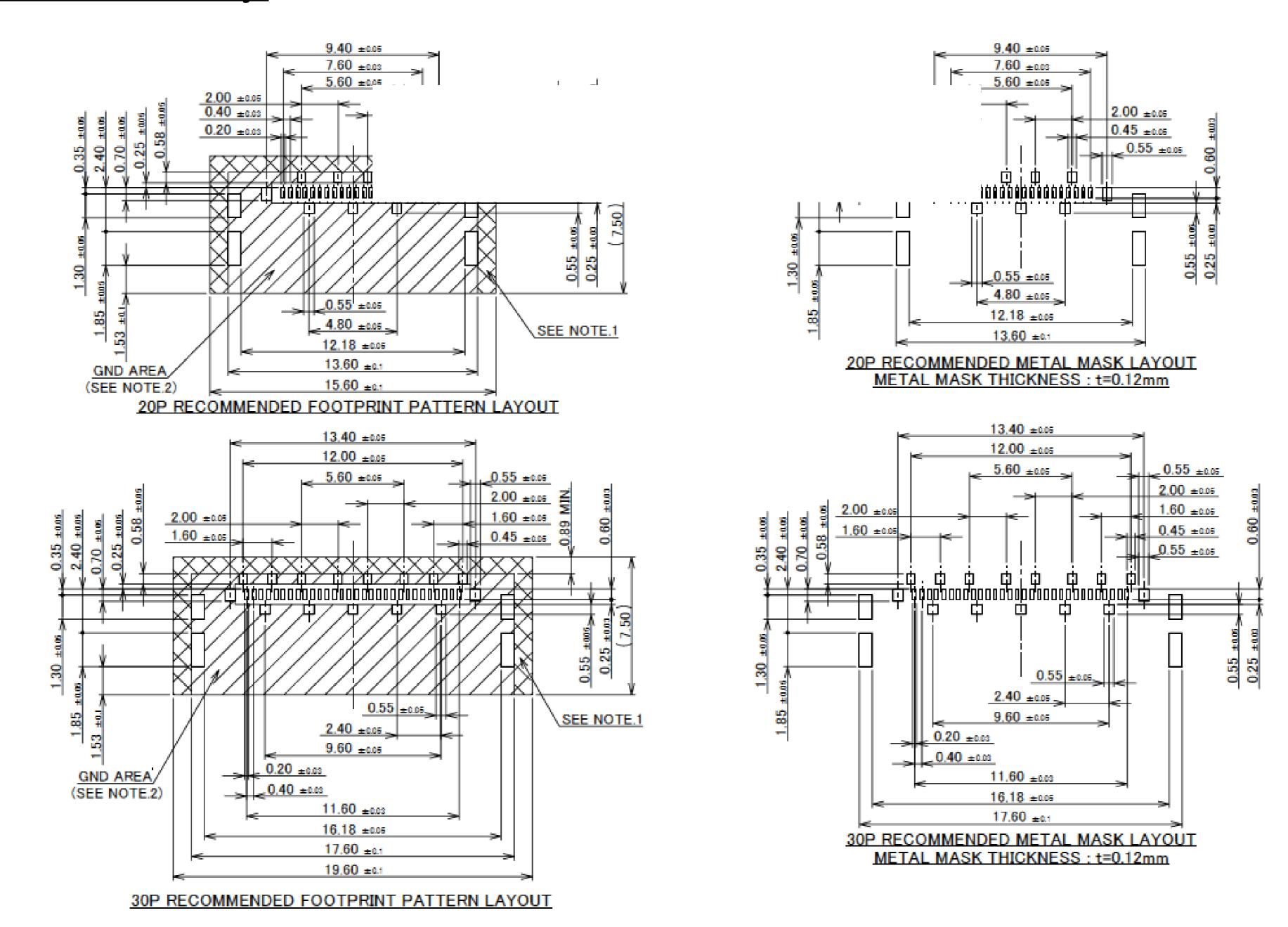




Rev.13

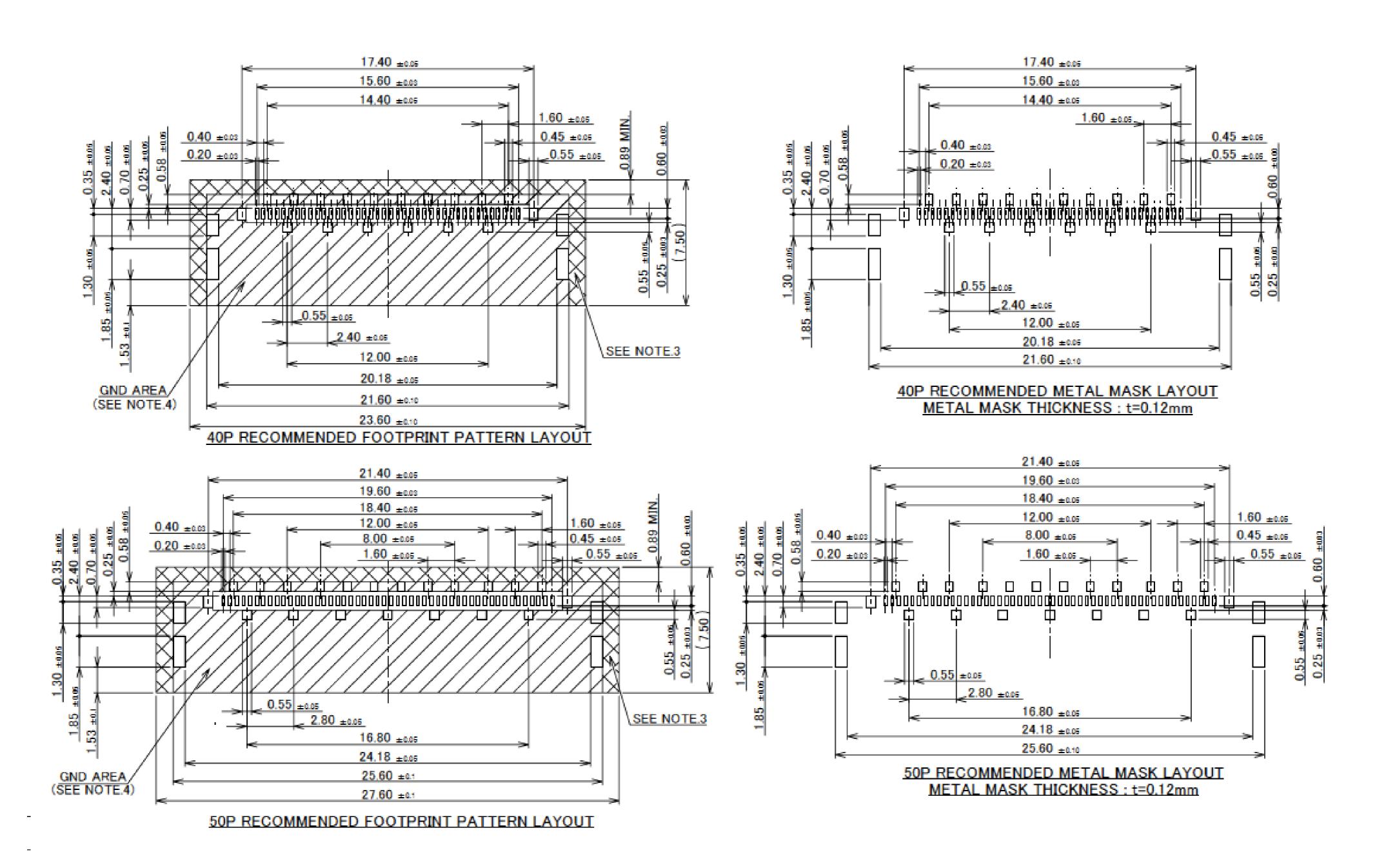


Receptacle Assembly



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

Rev.13



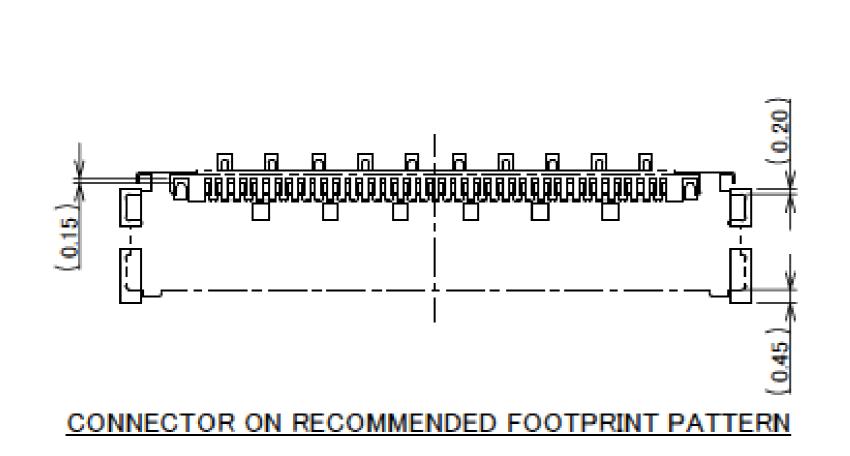
NOTES.

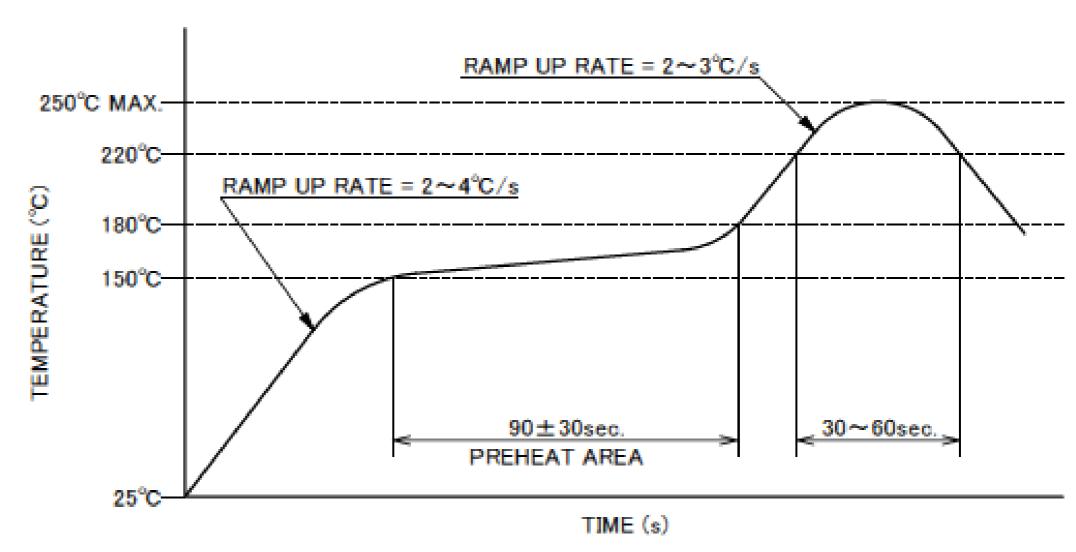
DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

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				
RATING VOLTAGE	100V AC (PER CONTACT PIN)				
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 50 CONTACTS 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 CON				
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)				
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 : 9.70N 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***				





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