CABLINE®-CA II

Fully-shielded with mechanical lock, high-data-rate transfer, 0.4 mm pitch, horizontal mating type micro-coaxial connector

Product Specifications:				
Mating type		Horizontal		
Board Pitch (mm)		0.4		
Wiping Length (mm)		0.54		
Mated size (mm)	Height	1.1 max. with cover		
	Width	Formula: 6.95 + (0.4*?p)		
	Depth	6.2		
Din Counts	Range	Up to 60		
Pin Counts	Available	20, 30, 40, 50		

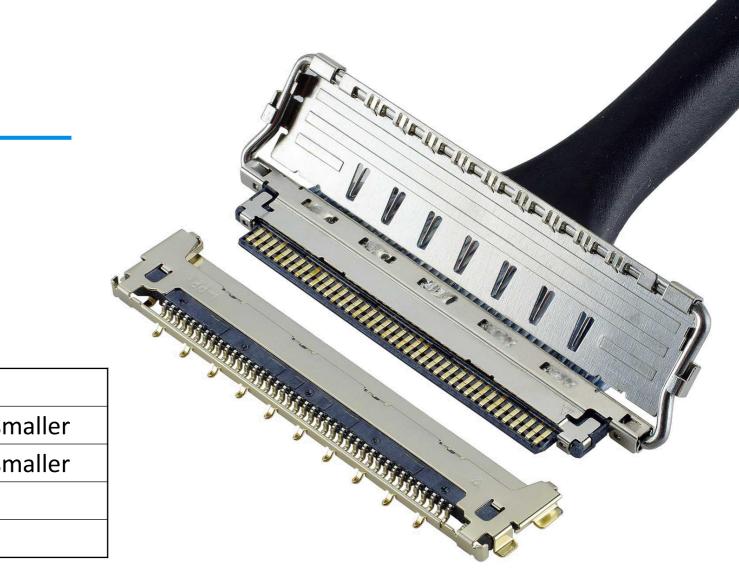
^{*} Please inquire for pin counts not listed or outside of the pin count range. * 60p is also available with CABLINE®-CA II PLUS (wider space type).

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

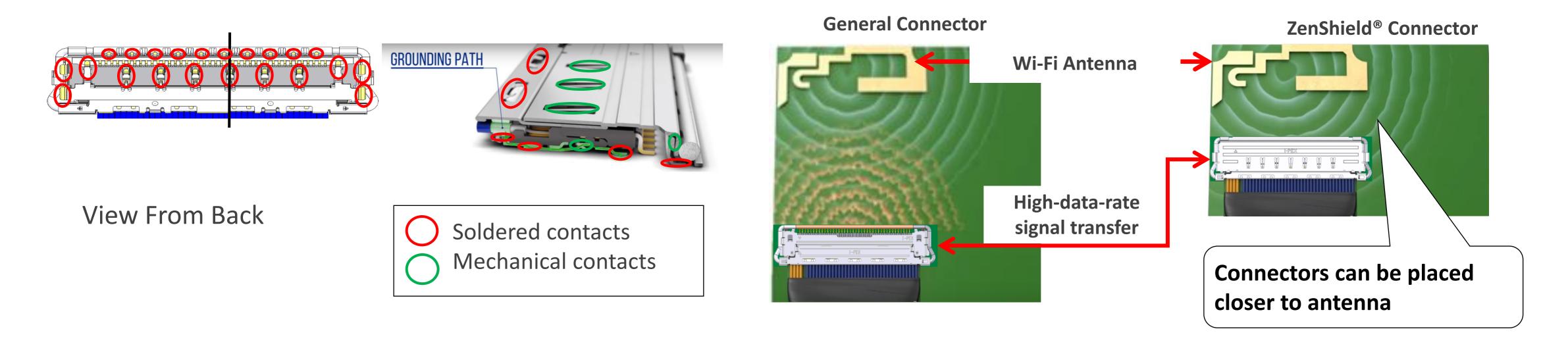
Applicable Cable Size:

Applicable Standards (Reference Only):

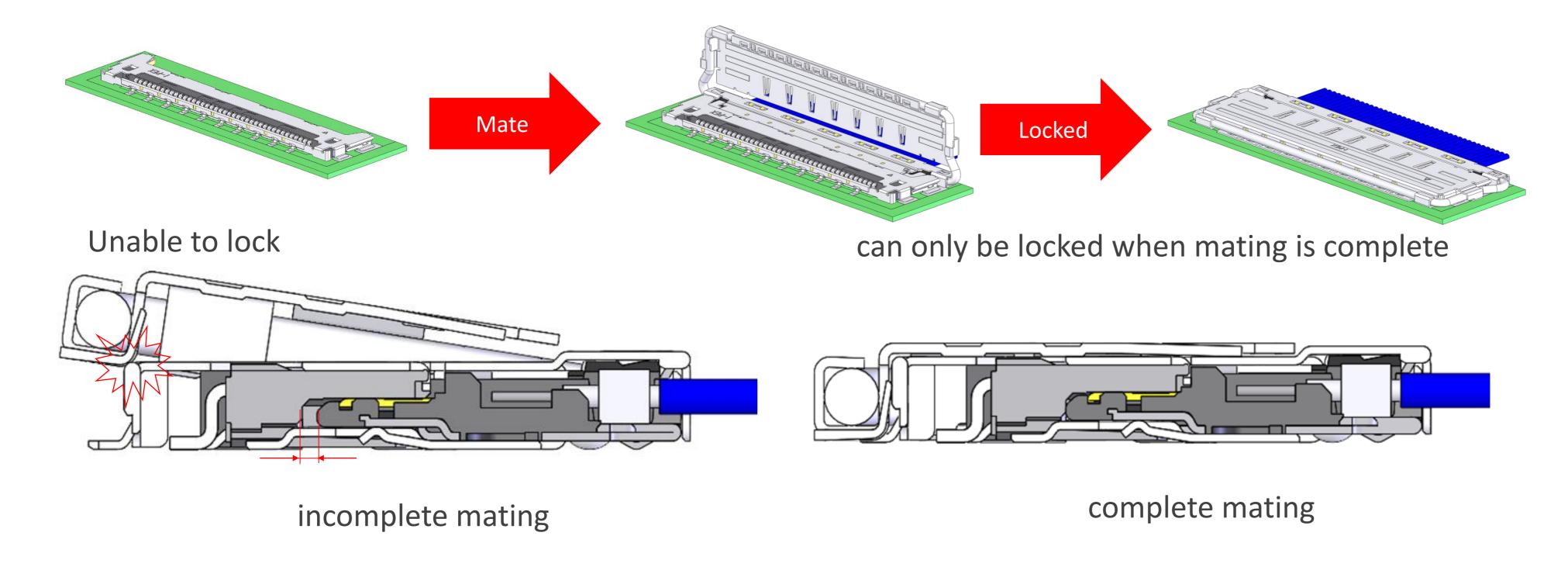
USB4/Thunderbolt 4 (20 Gbps/lane), PCIe® Gen 4 (16 GT/s),
eDP HBR 3 (8.1 Gbps)



ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage



Mechanical locking cover prevents incomplete mating and back-out/un-mating



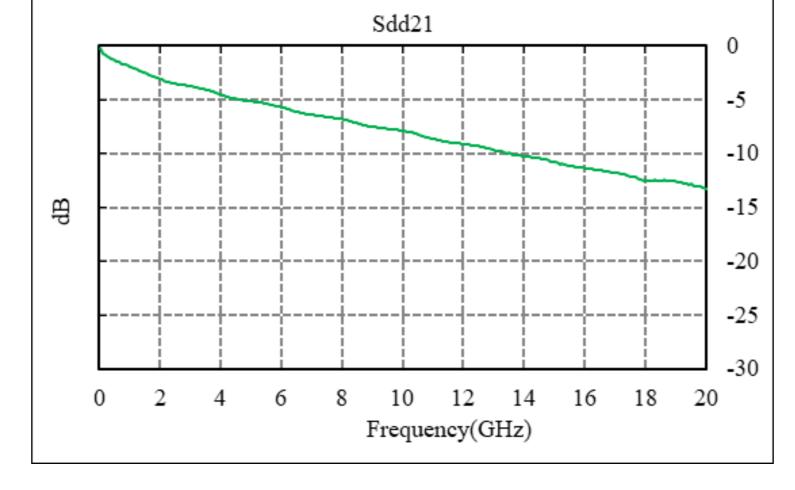
Excellent differential SI performance

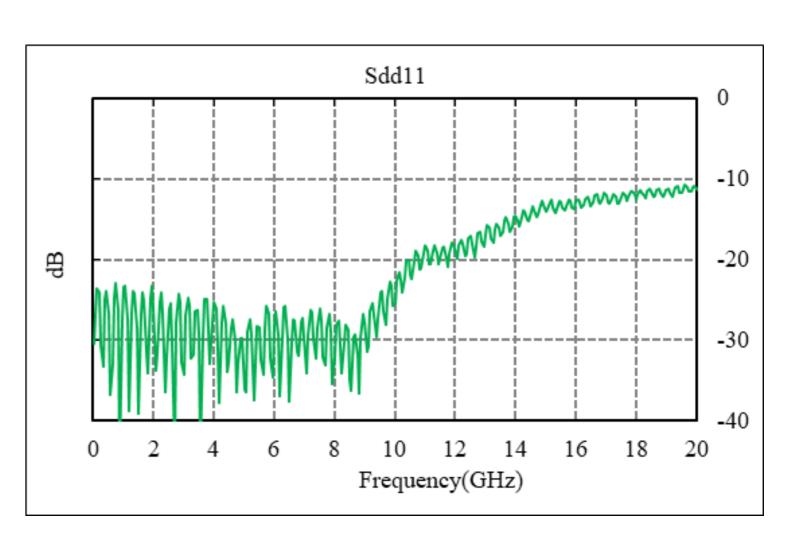
Test material:

CABLINE-CA II harness (GND finger type)

Cable: Micro-coaxial AWG #38 45Ω

Cable Length: 320mm



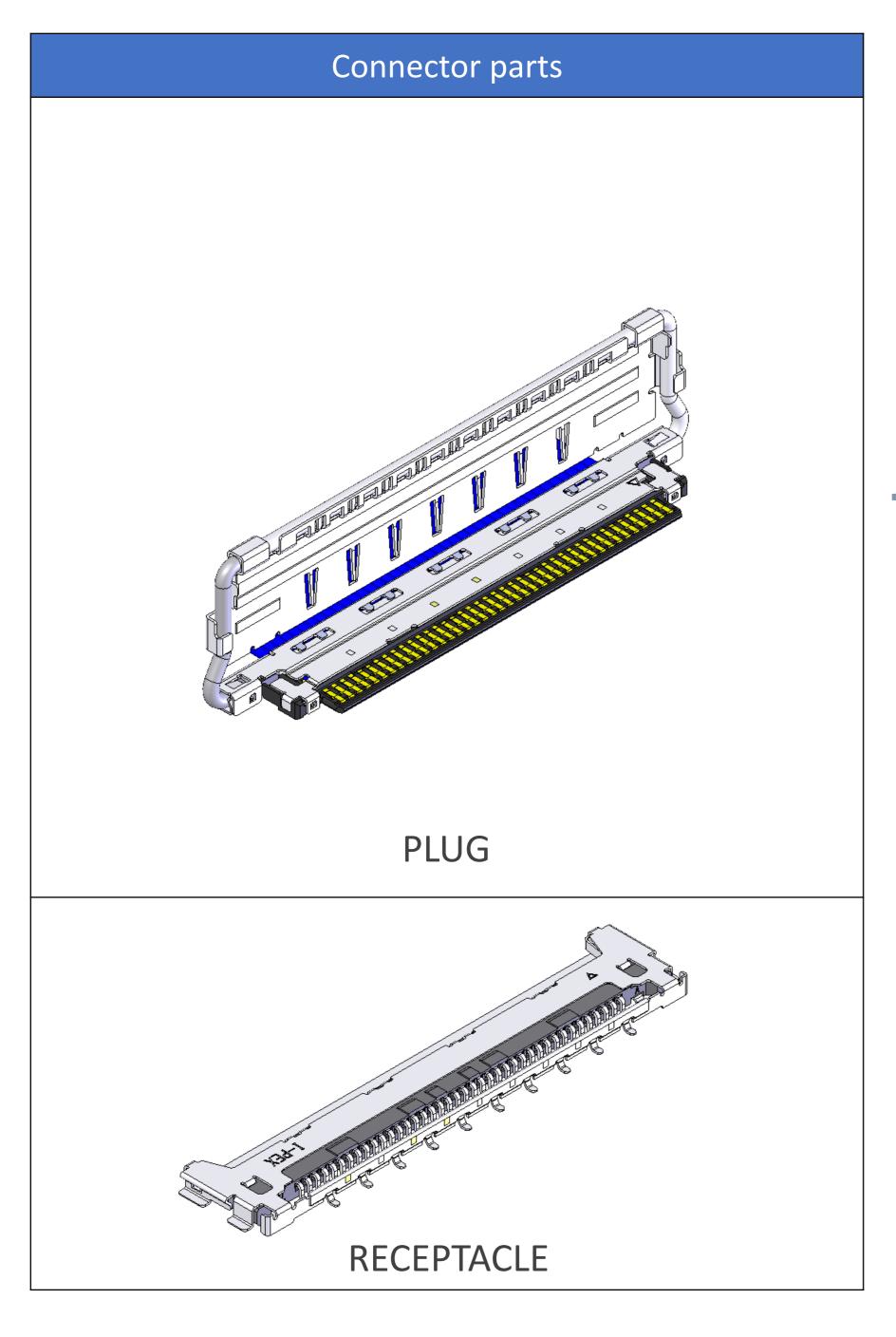


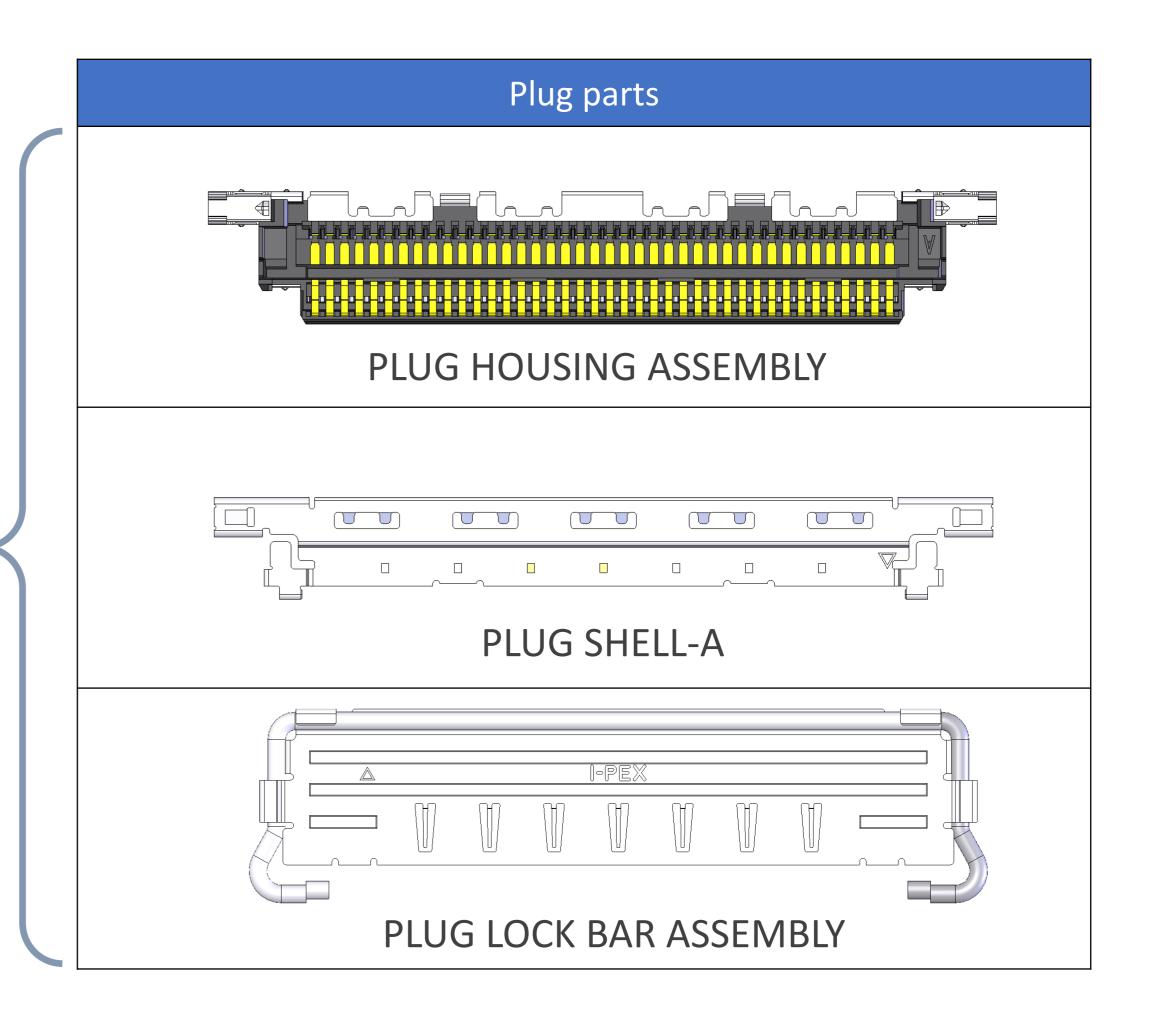
Return Loss



Component Parts Details

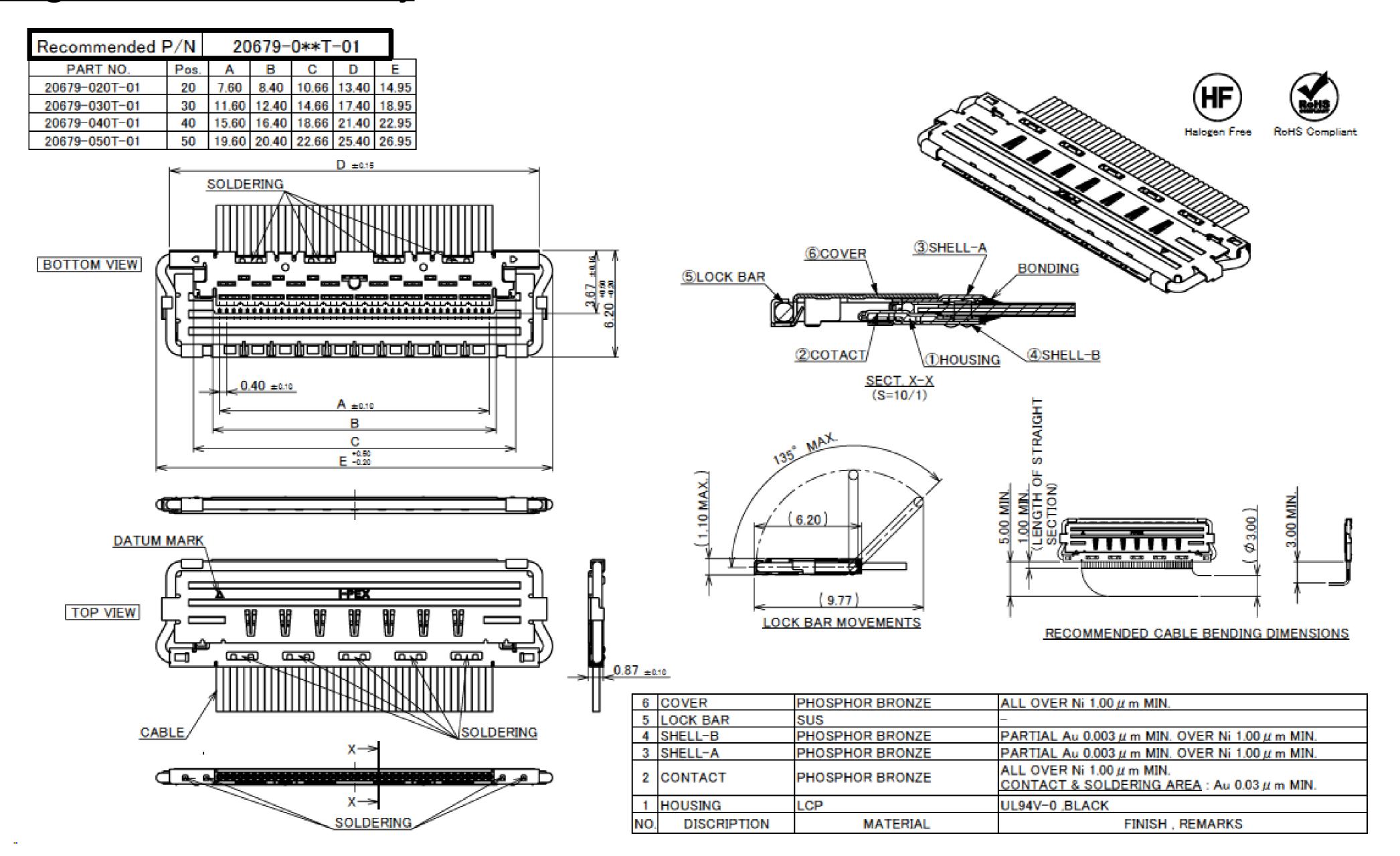
Component Parts



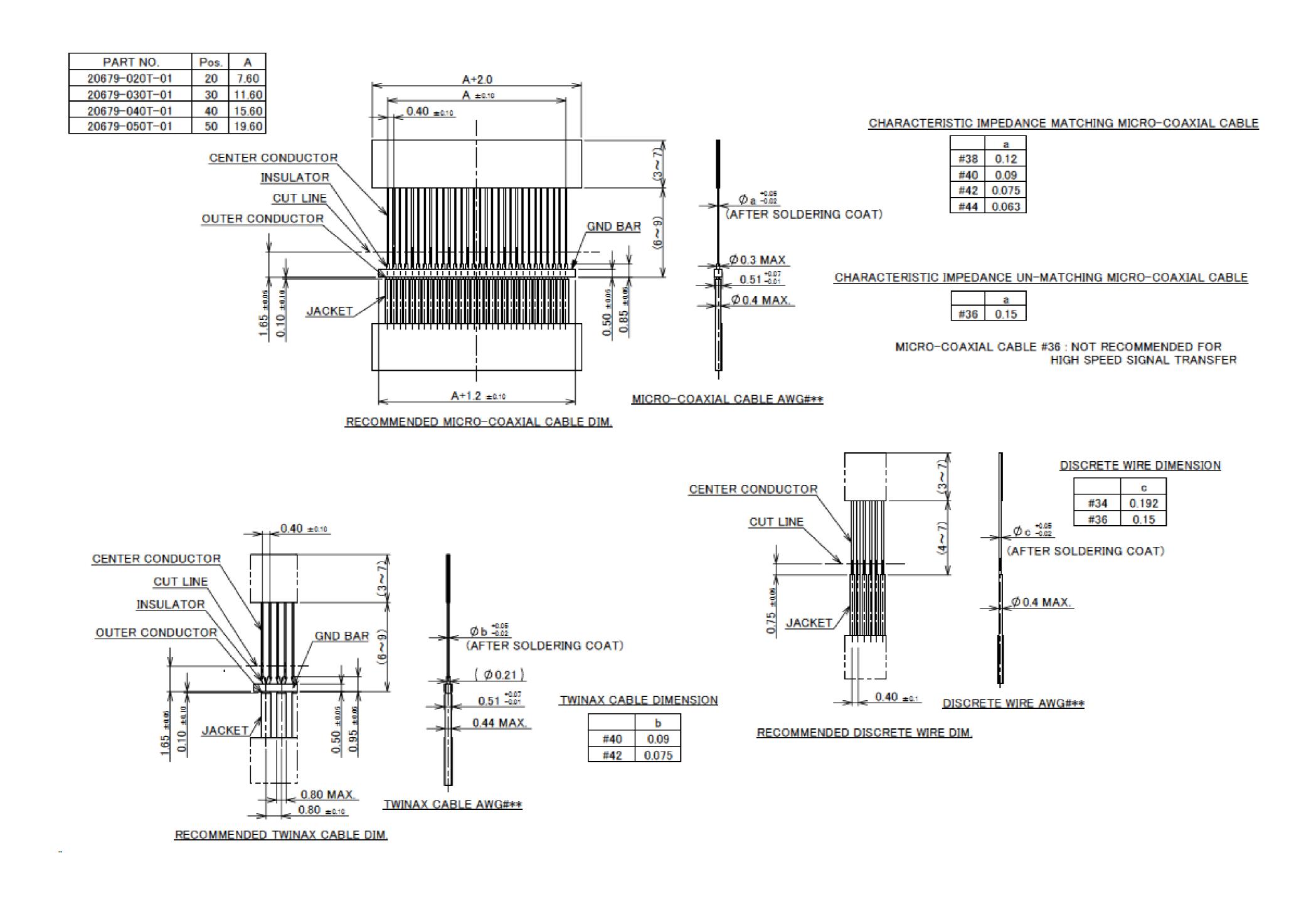




Plug for Cable Assembly



Rev.9



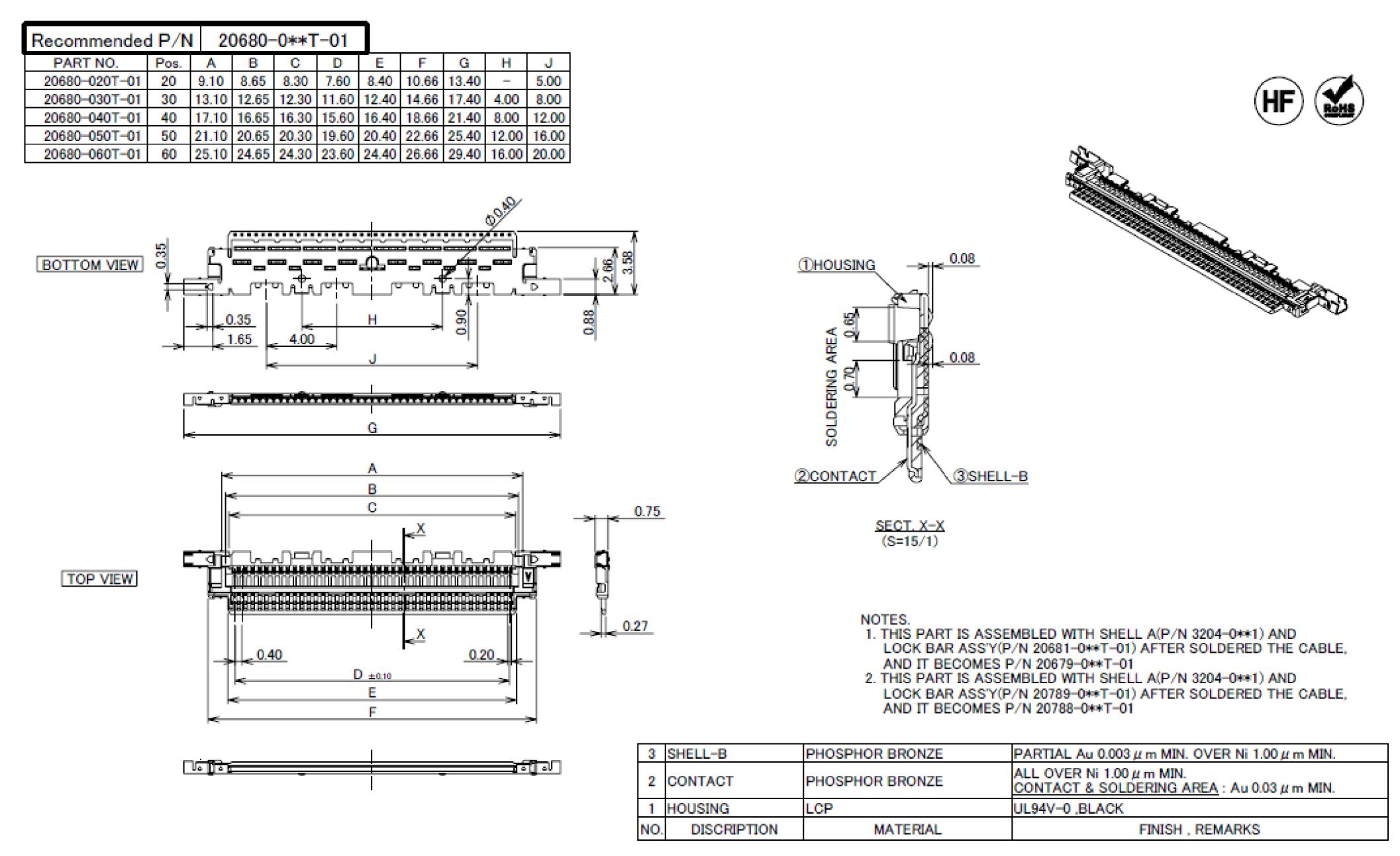


Plug for Cable Assembly

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

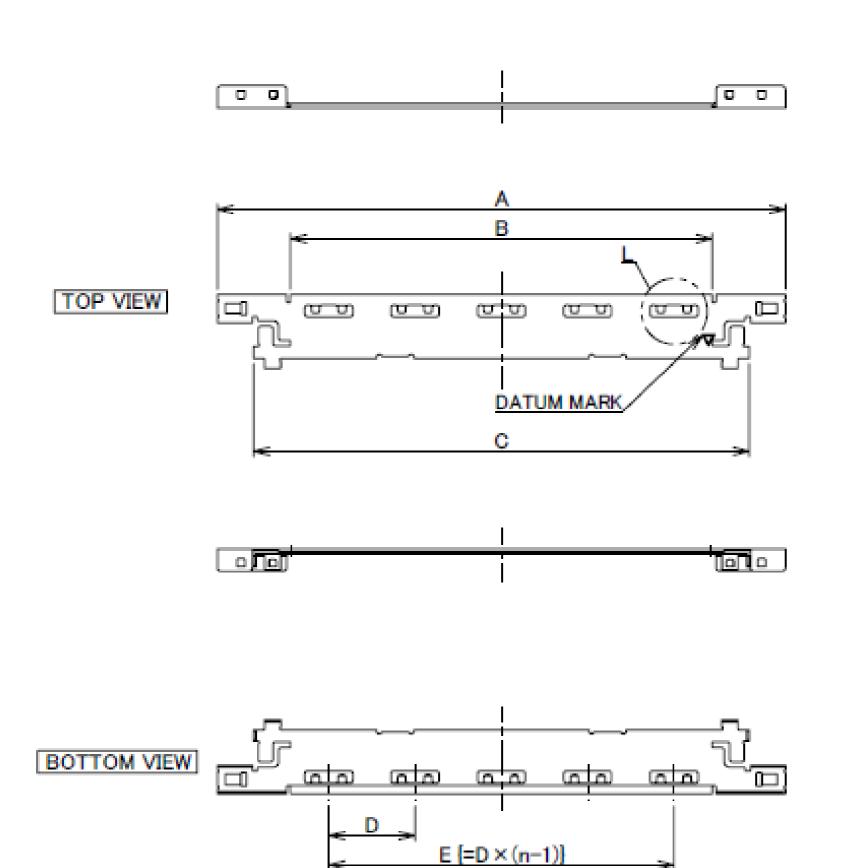
Plug Housing Assembly

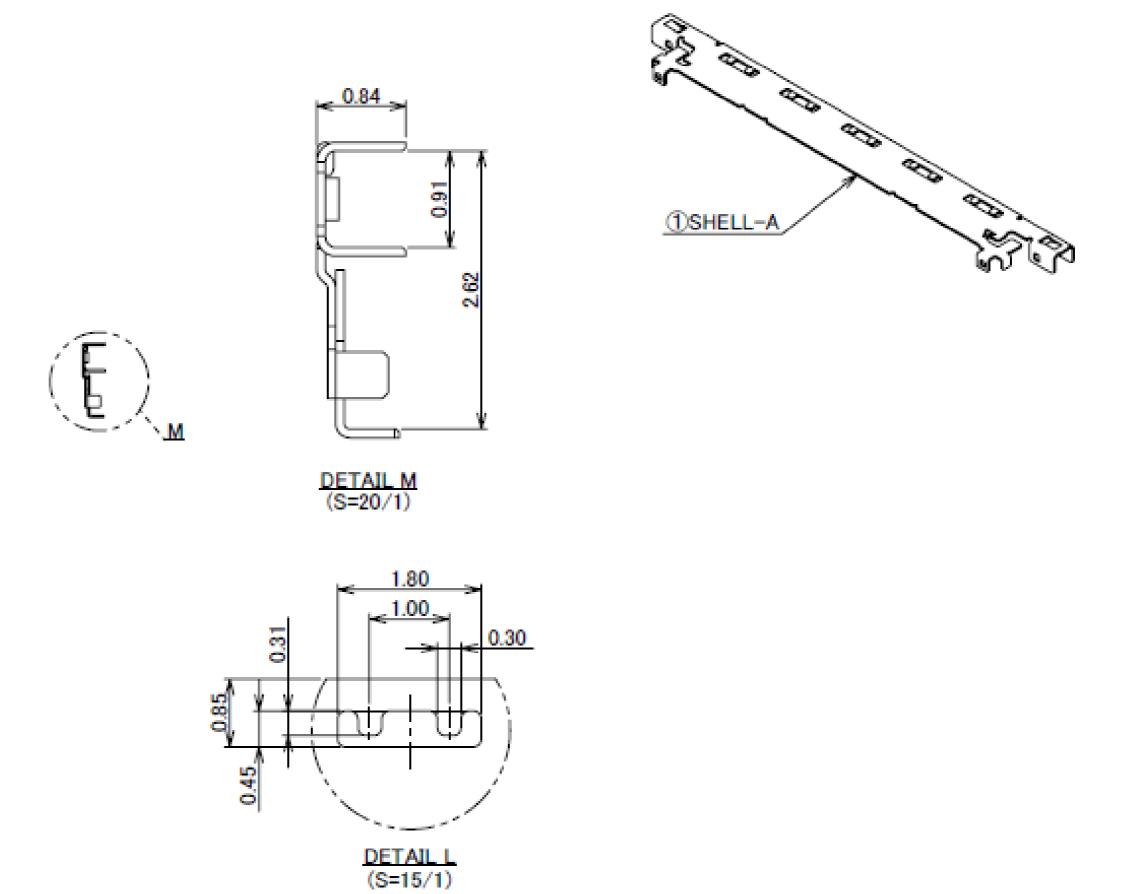




Plug Shell-A

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





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

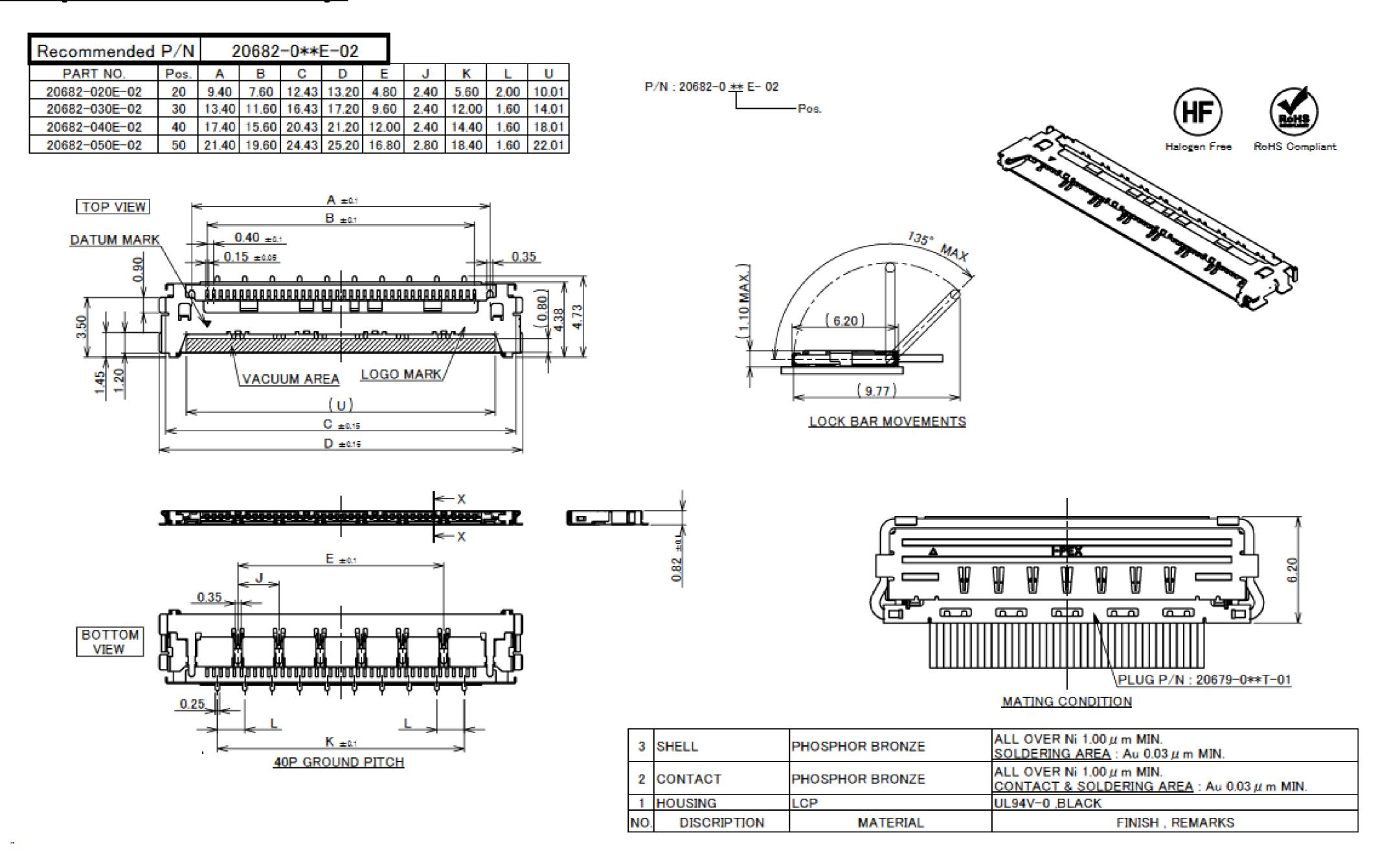
Recommended P/N 20681-0**T-01 PART NO. Pos. A B C 20681-020T-01 20 12.65 13.85 4.00 20681-030T-01 30 16.65 17.85 8.00 20681-040T-01 40 20.65 21.85 12.00 20681-050T-01 50 24.65 25.85 16.00		(2) COVER
DATUM MARK 0.60 2.00 C B 1.93	0.93	① LOCK BAR





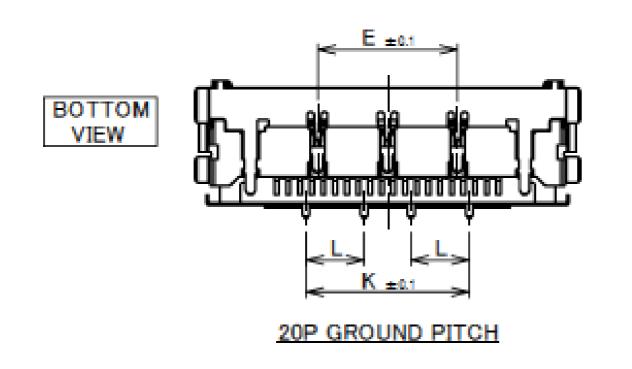


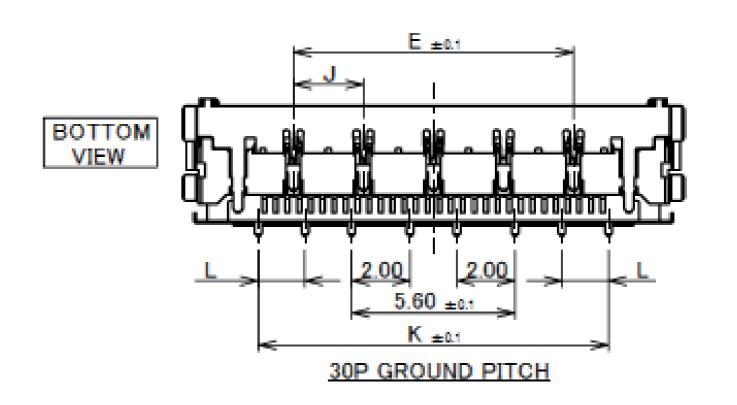
Receptacle Assembly

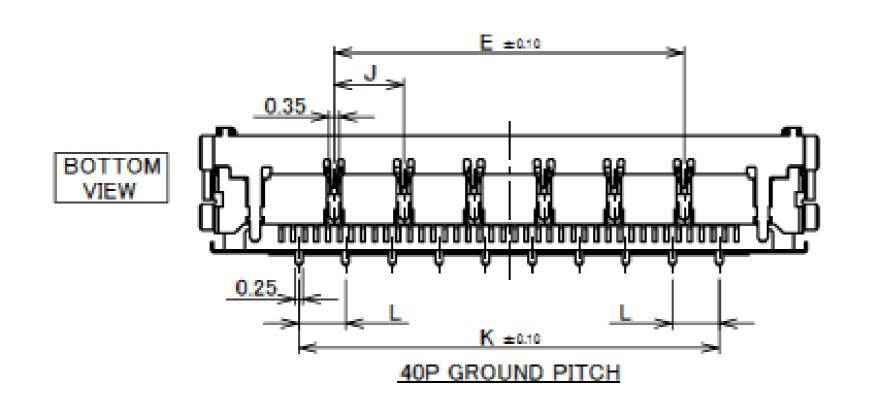


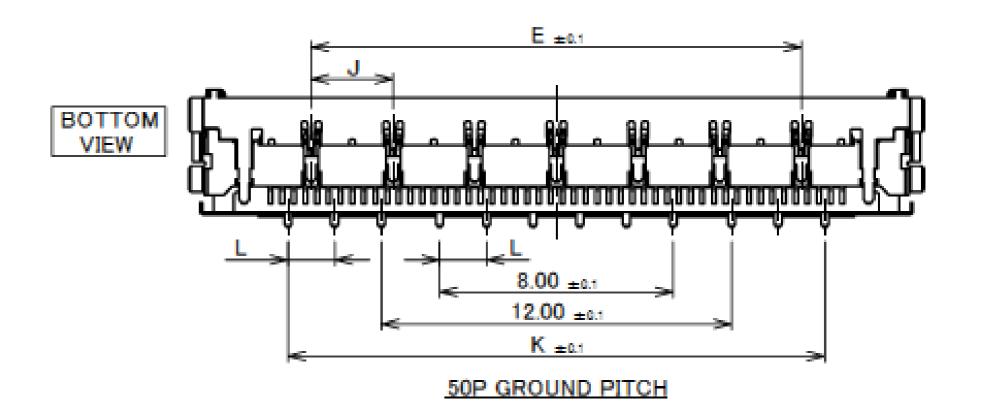
Rev.13

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





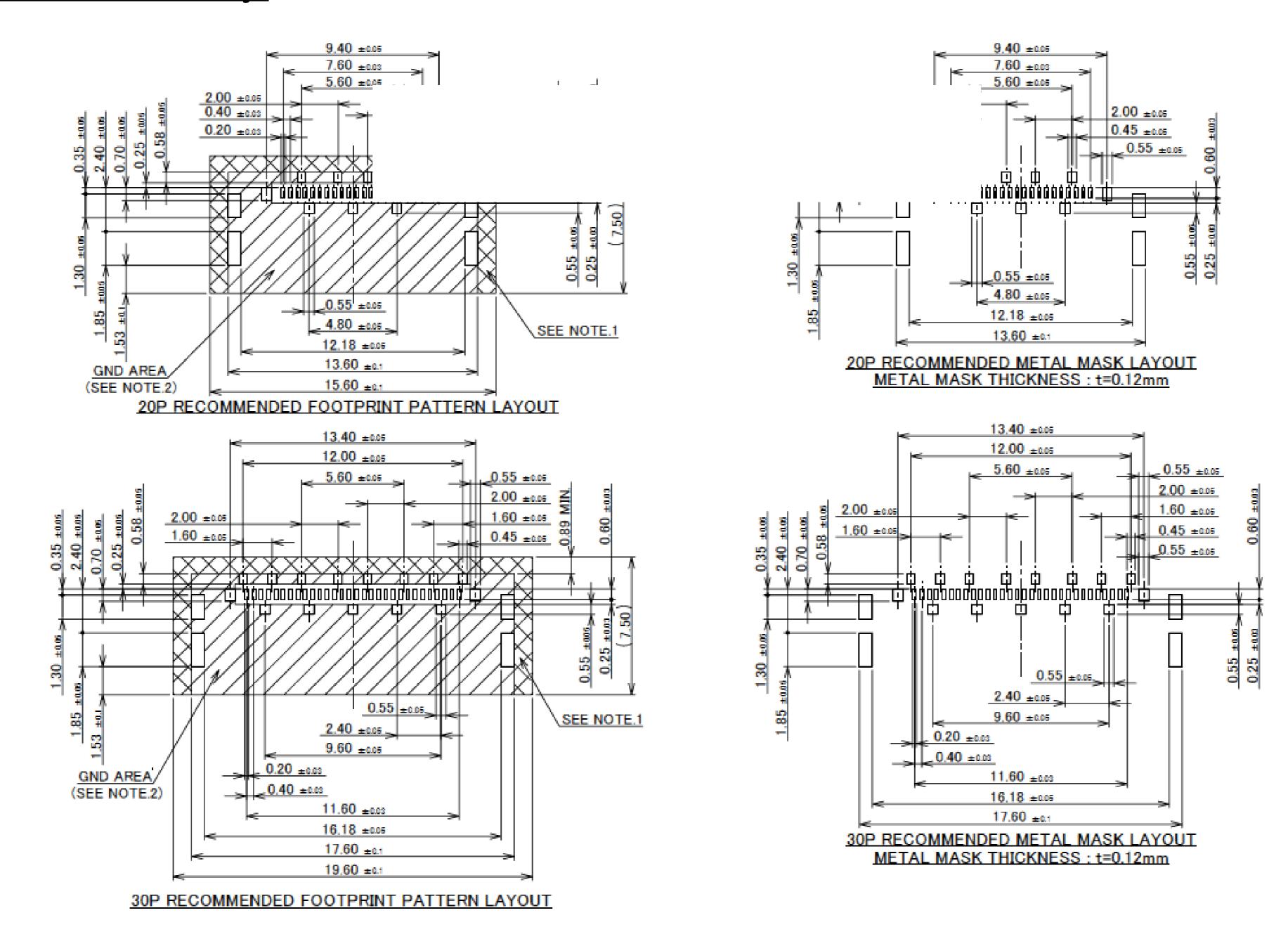




Rev.13

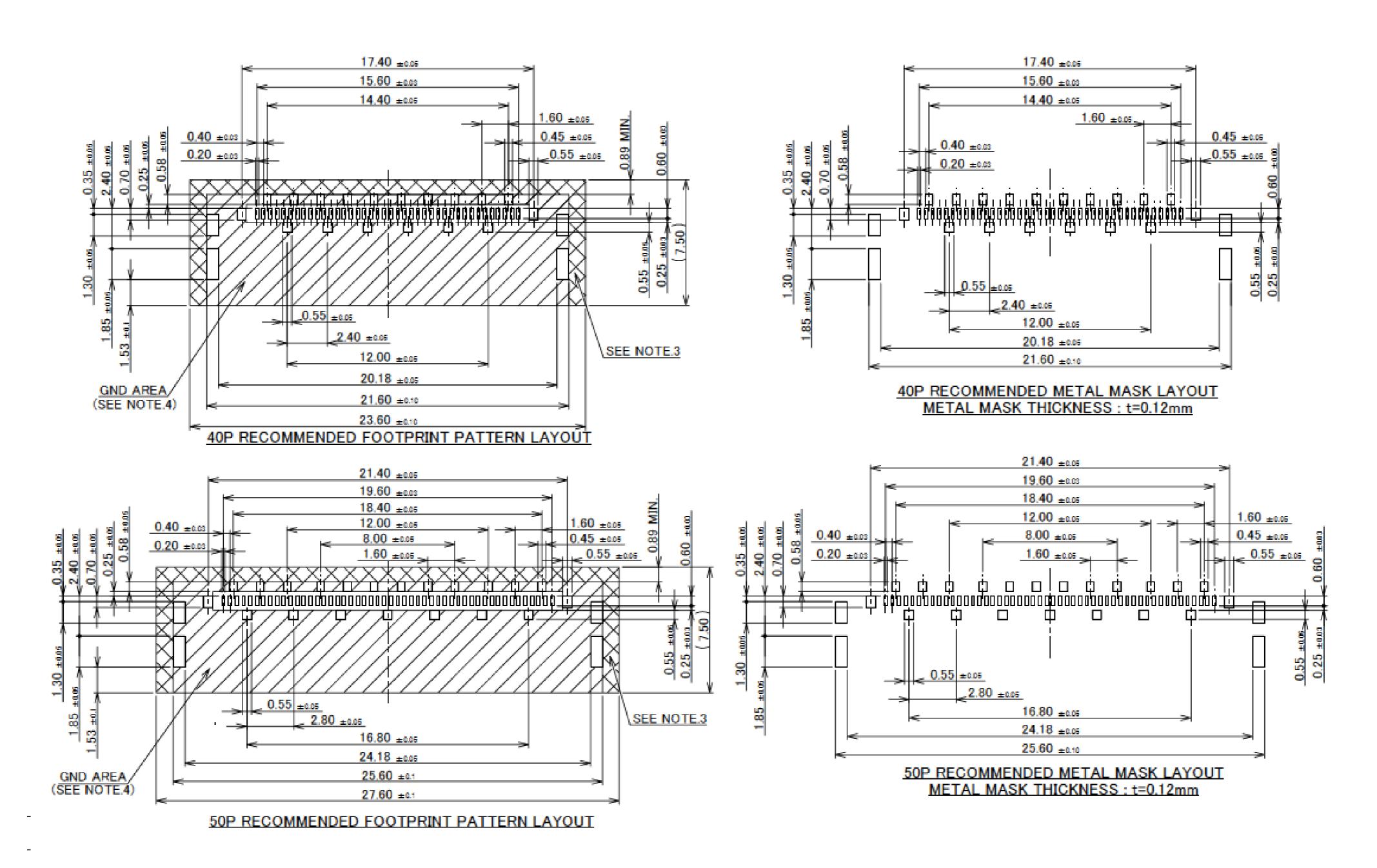


Receptacle Assembly



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

Rev.13



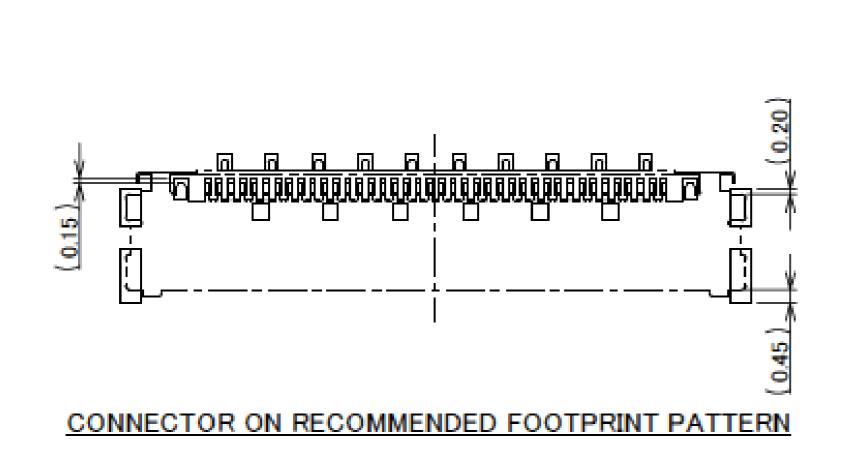
NOTES.

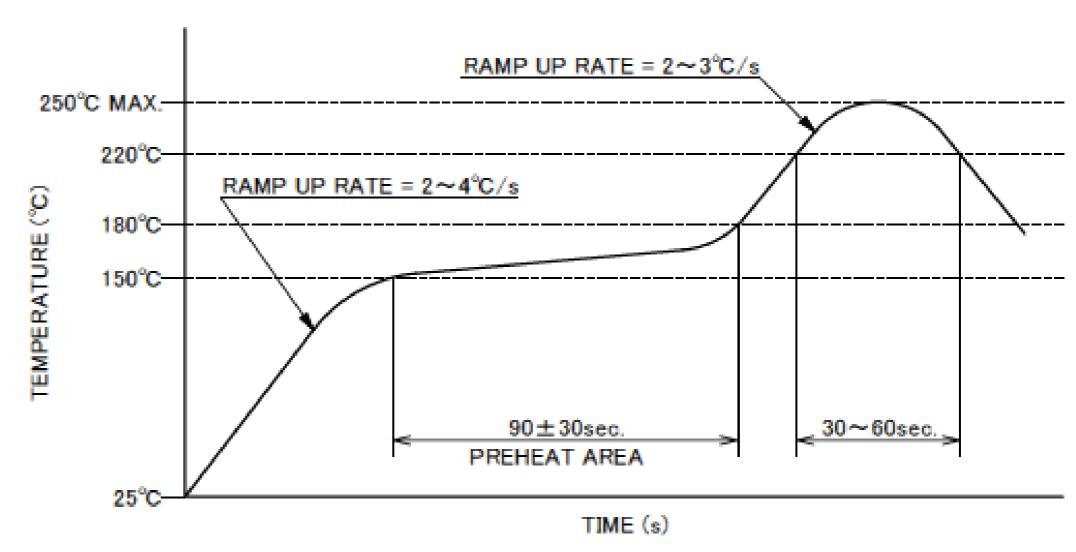
DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

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 CONTACT PIN/UP TO 6 CONTACTS **TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION.			
OPERATING TEMPERATURE	233~378K(−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 : 9.70N 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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