CABLINE®-CA II PLUS

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

*For higher data rate up to 64 Gbps PAM4, please review CABLINE-CA IIP PLUS harness solution

that mates to current CABLINE-CA II PLUS receptacle (20790-060E-01/-02).

Proc	luct	Spec	ificat	ions:	

110ddot opecifications:				
Matin	g type	Horizontal		
Board Pit	tch (mm)	0.4		
Wiping Le	ngth (mm)	0.54		
	Height	1.2 max. with cover		
Mated size (mm)	Width	Formula: 6.95 + (0.4*?p)		
(11111)	Depth	6.7		
Din Counts	Range	Up to 60		
Pin Counts	Available	60		

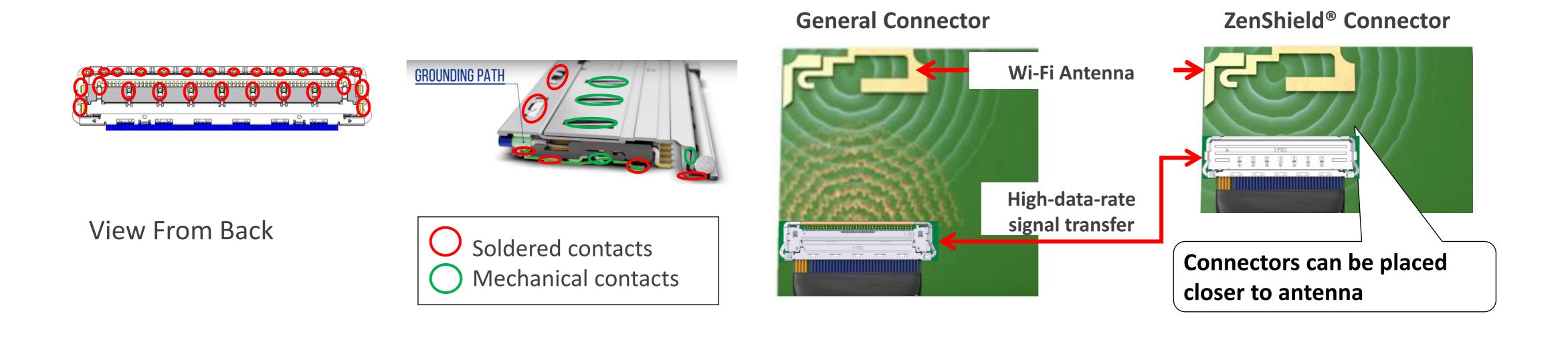
Applicable Cable Size:					
Maximum O.D. (mm)	0.4				
Micro-Coaxial	45 ohm: #38 or smaller				
for Signal (AWG)	50 ohm: #40 or smaller				
Twinax (AWG)	#40, #42				
Discrete (AWG)	#34 or smaller				

Applicable Standards (Reference Only):

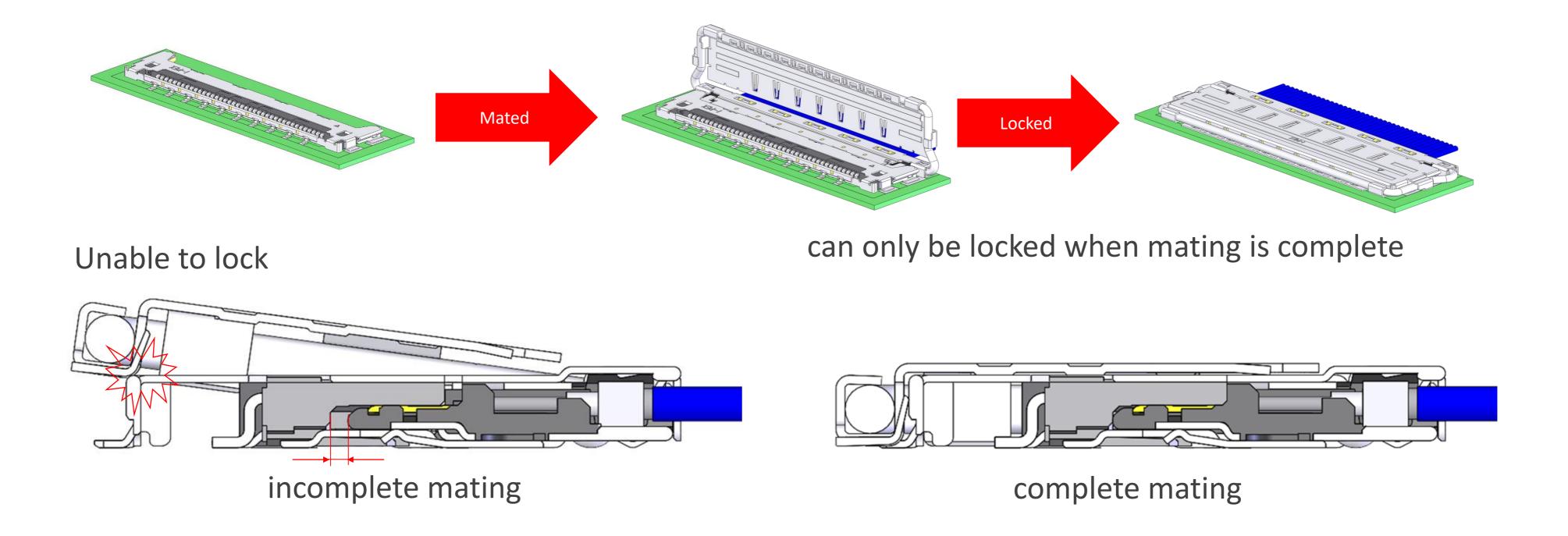
USB4 Gen3/Thunderbolt 4 (20 Gbps/lane), PCIe® Gen 4 (16 GT/s), eDP HBR 3 (8.1 Gbps)



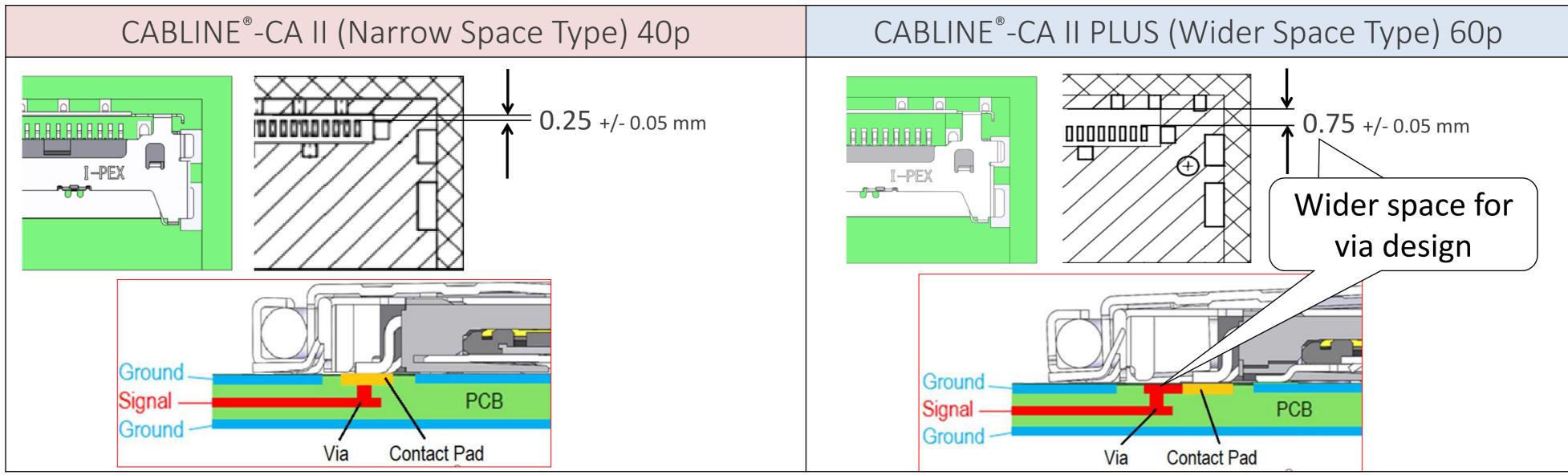
ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage



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



Wider space for vias on PCB (for Non-Via-In-Pad type PCB trace design)



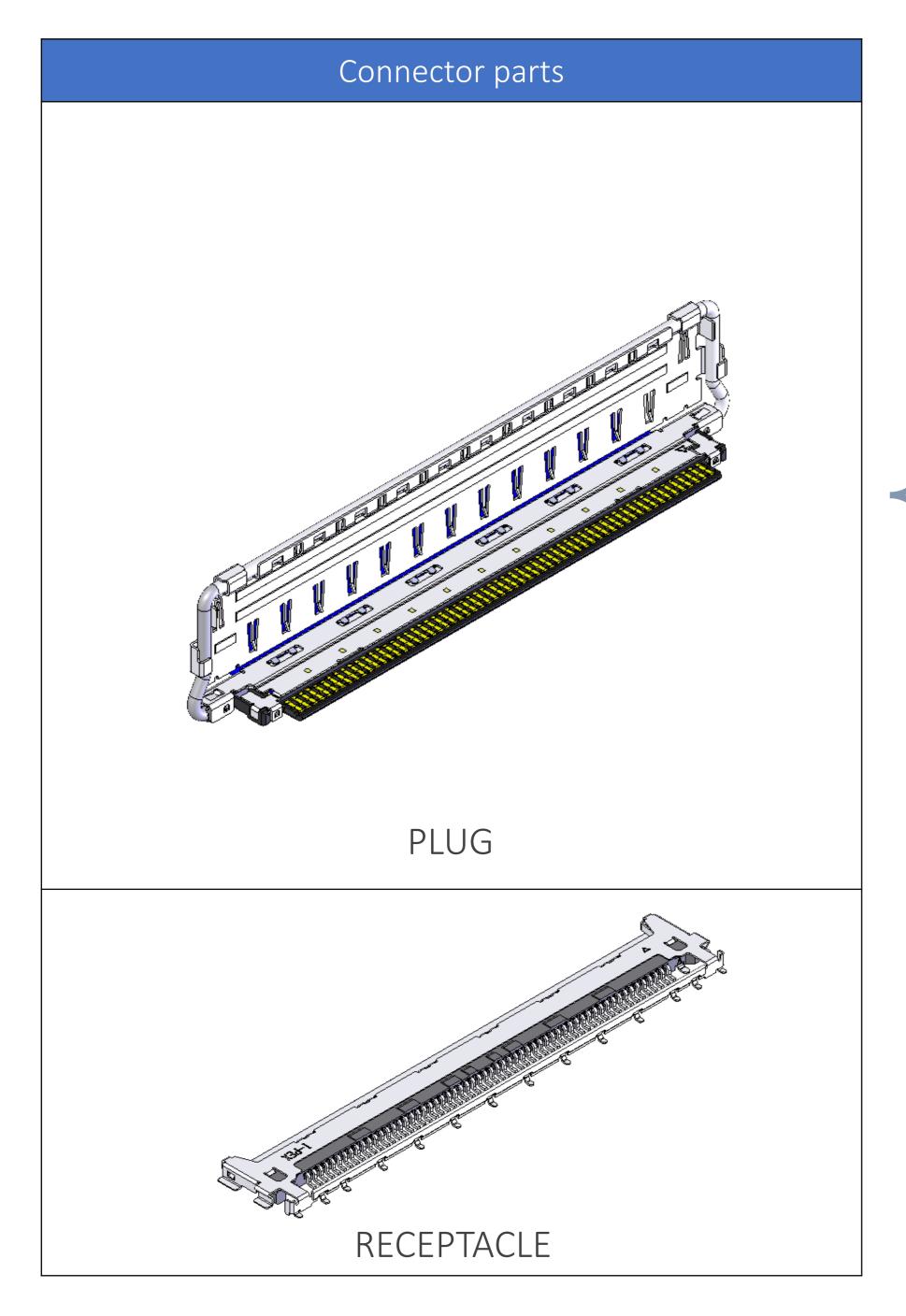


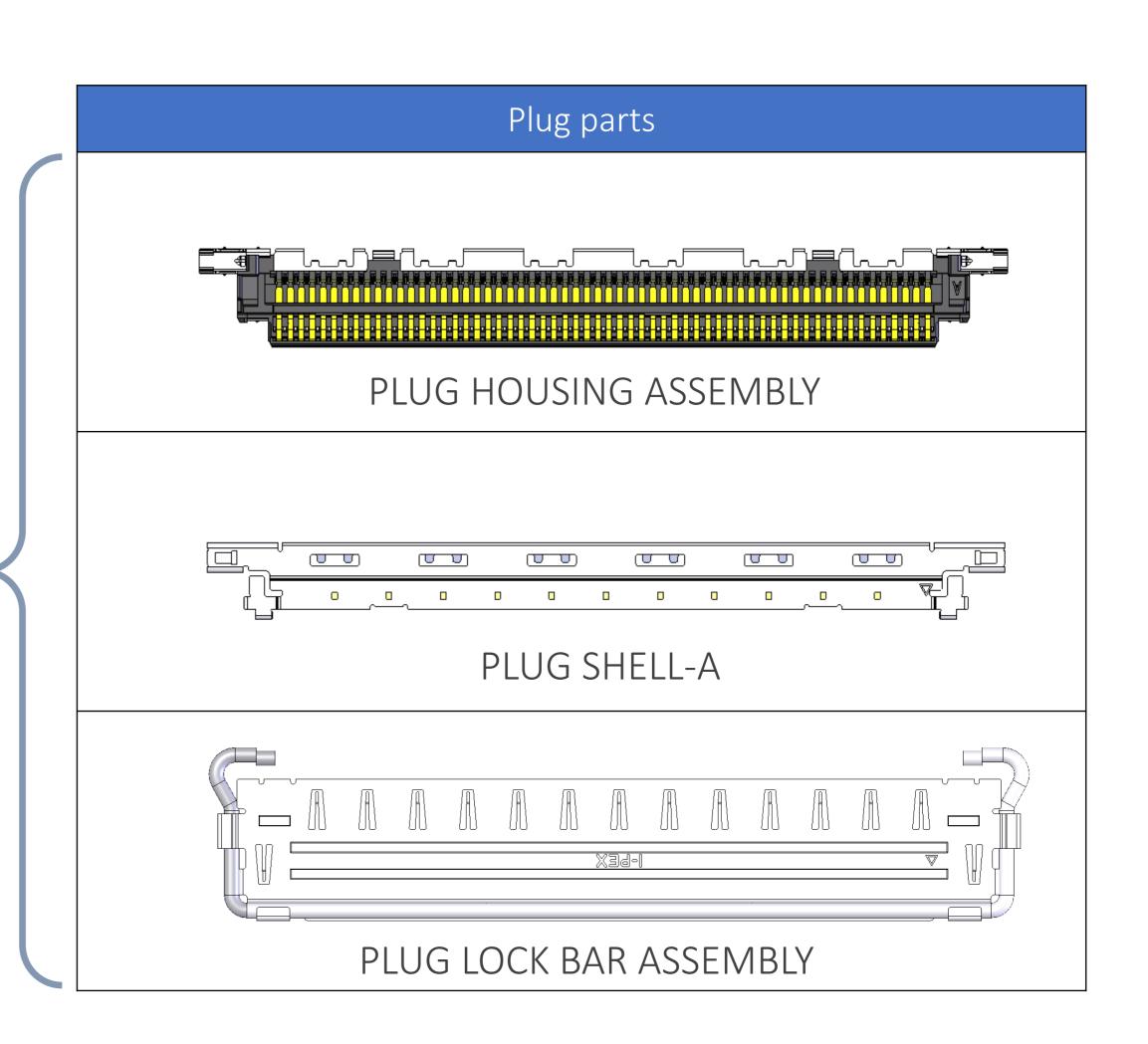
^{*} Please inquire for pin counts not listed or outside of the pin count range.

^{*20, 30, 40, 50}p are also available with CABLINE®-CA II (narrow space type).

Component Parts Details

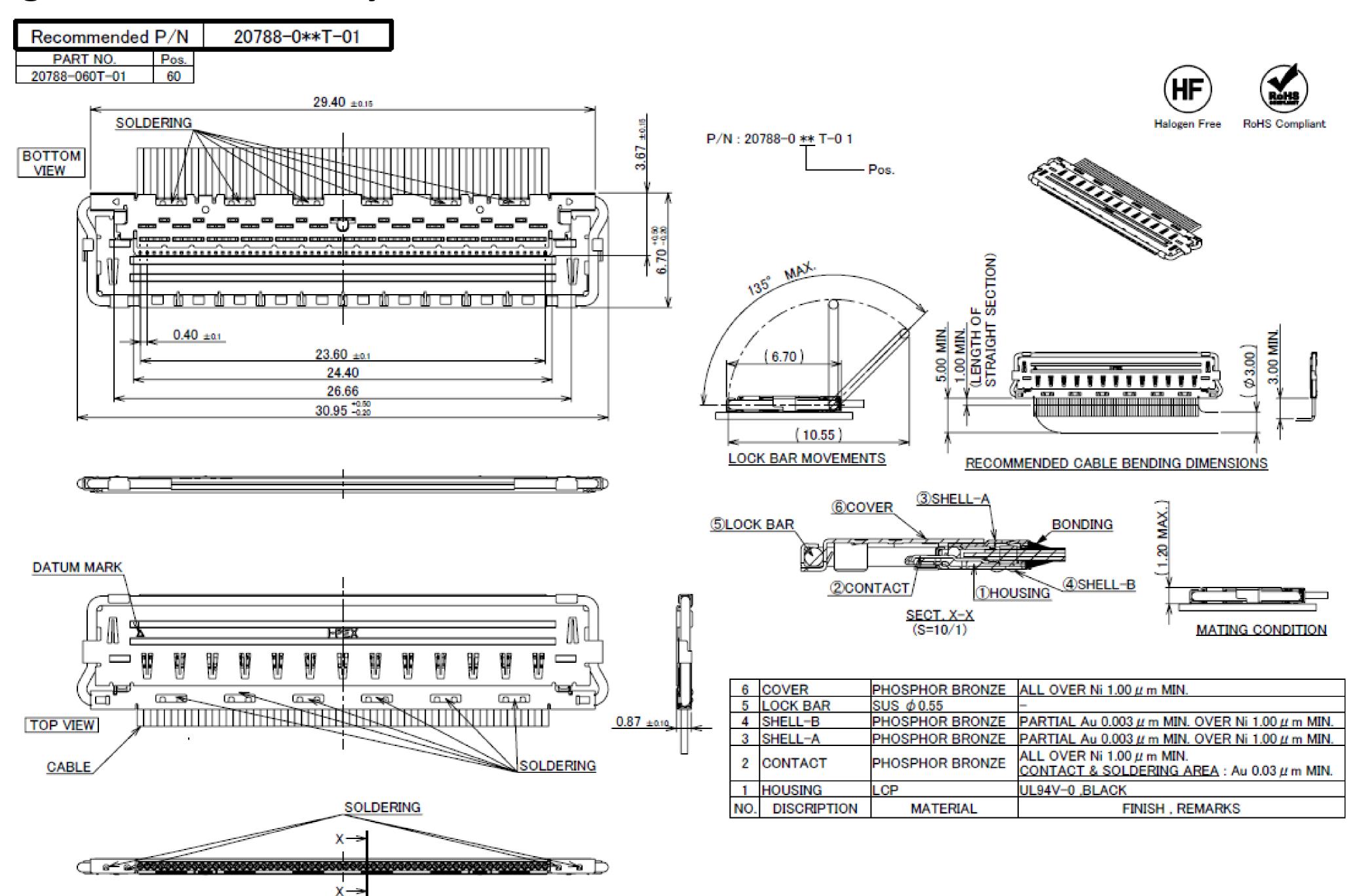
Component Parts



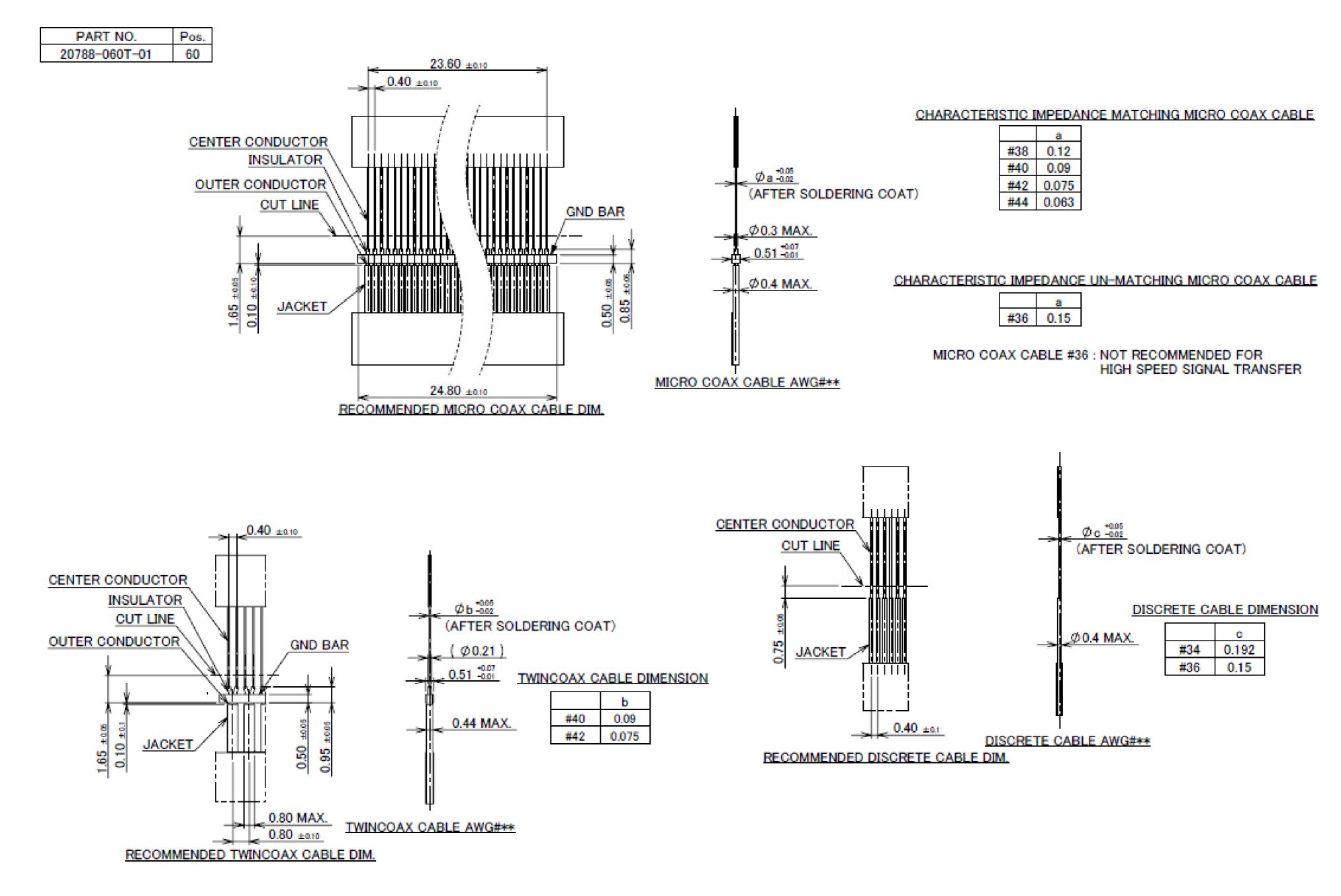




Plug for Cable Assembly



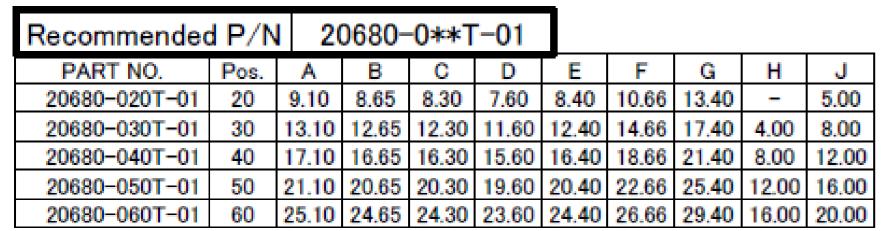
Rev.10

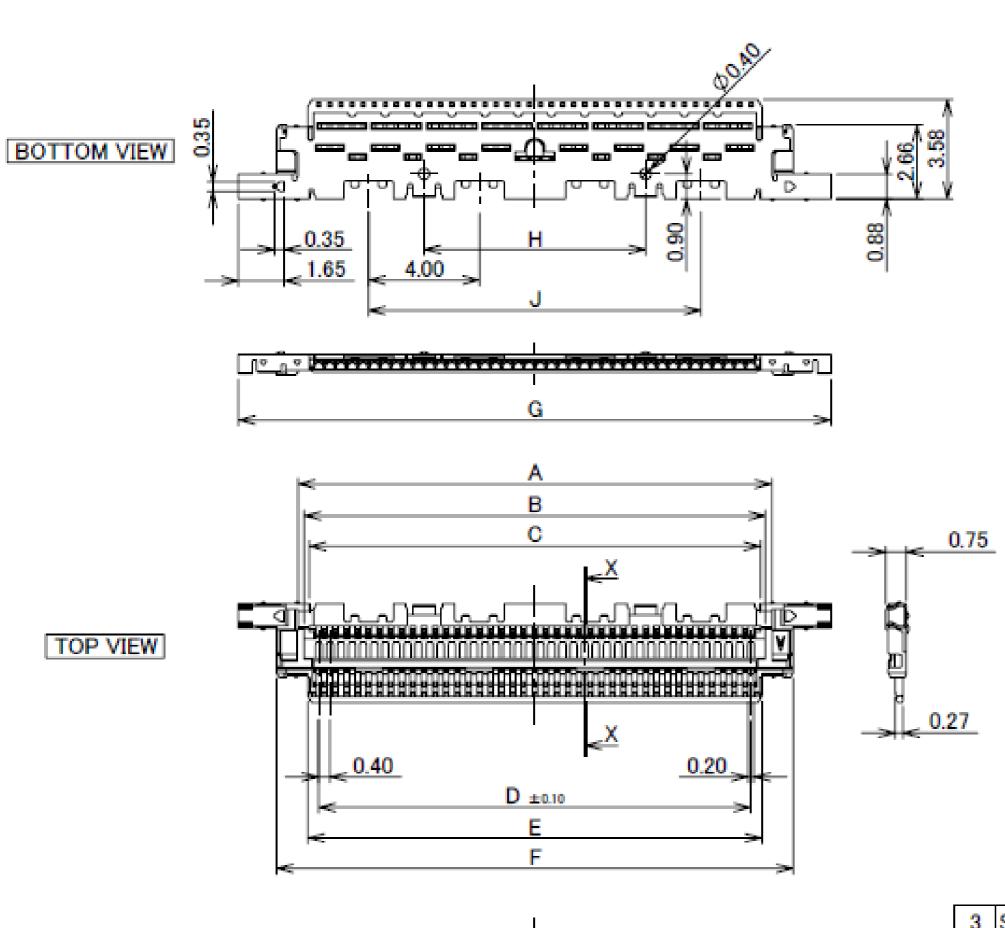


Rev.10

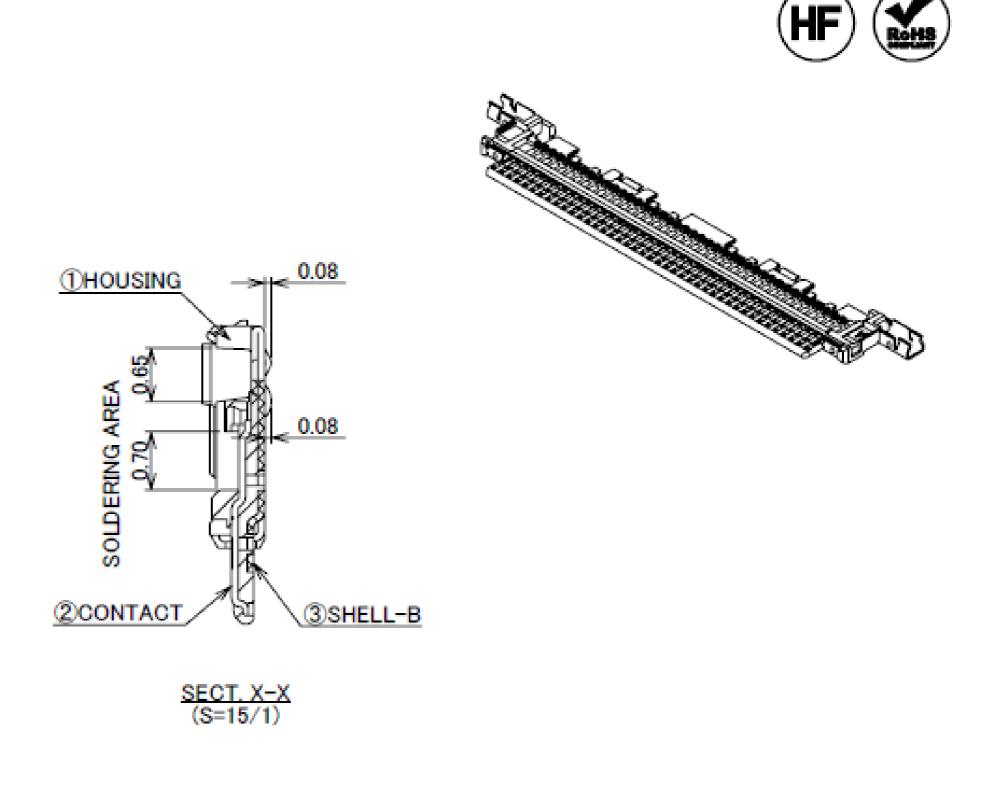


Plug Housing Assembly





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



NOTES.

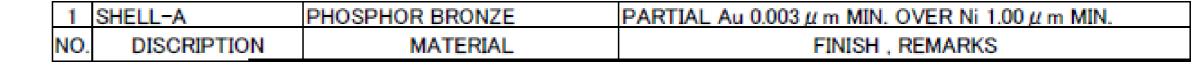
- THIS PART IS ASSEMBLED WITH SHELL A(P/N 3204-0**1) AND LOCK BAR ASS'Y(P/N 20681-0**T-01) AFTER SOLDERED THE CABLE, AND IT BECOMES P/N 20679-0**T-01
- AND IT BECOMES P/N 20679-0**T-01
 2. THIS PART IS ASSEMBLED WITH SHELL A(P/N 3204-0**1) AND LOCK BAR ASS'Y(P/N 20789-0**T-01) AFTER SOLDERED THE CABLE, AND IT BECOMES P/N 20788-0**T-01

3	SHELL-B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	IPHUSPHUR BRUNZE	ALL OVER Ni 1.00 μ m MIN. CONTACT & SOLDERING AREA: Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK
NC	DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.7

Plug Shell-A

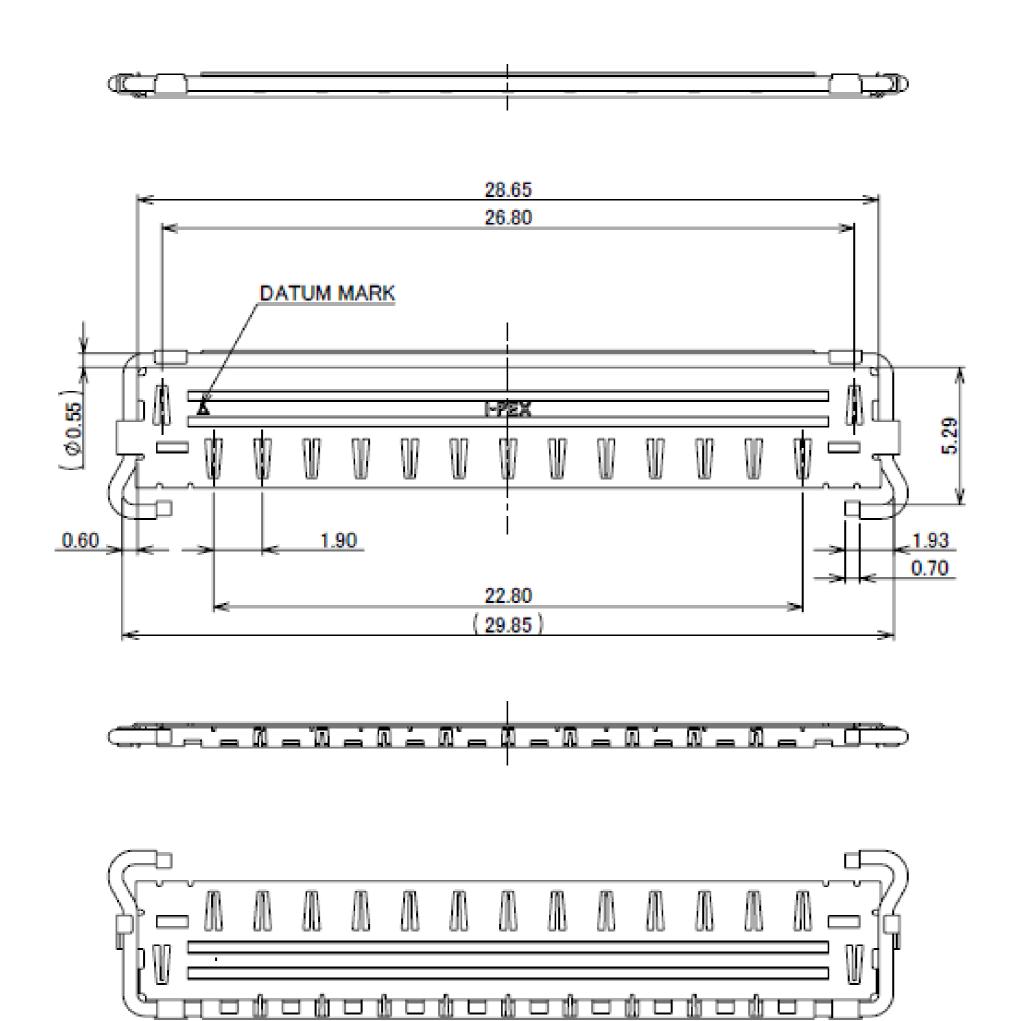
Recommende	ed P/N	320	04-0**1				
PART NO.	Pos.	A B	C D	E			
3204-0201	20		10.66 2.5				
3204-0301		17.40 11.88					(HF) (MAIS)
3204-0401		21.40 15.88					
3204-0501		25.40 19.88					
3204-0601	00	29.40 23.88	20.00 4.0	20.00		0.84	
TOP VIEW				B L DATUM MARK	(E)	DETAIL M (S=20/1)	①SHELL-A
	(o <u>i</u>	<u>aj</u>				1.80 1.00 0.30	
BOTTOM VIEW	<u>~</u>				0.85	4 () () () () () () () () () (

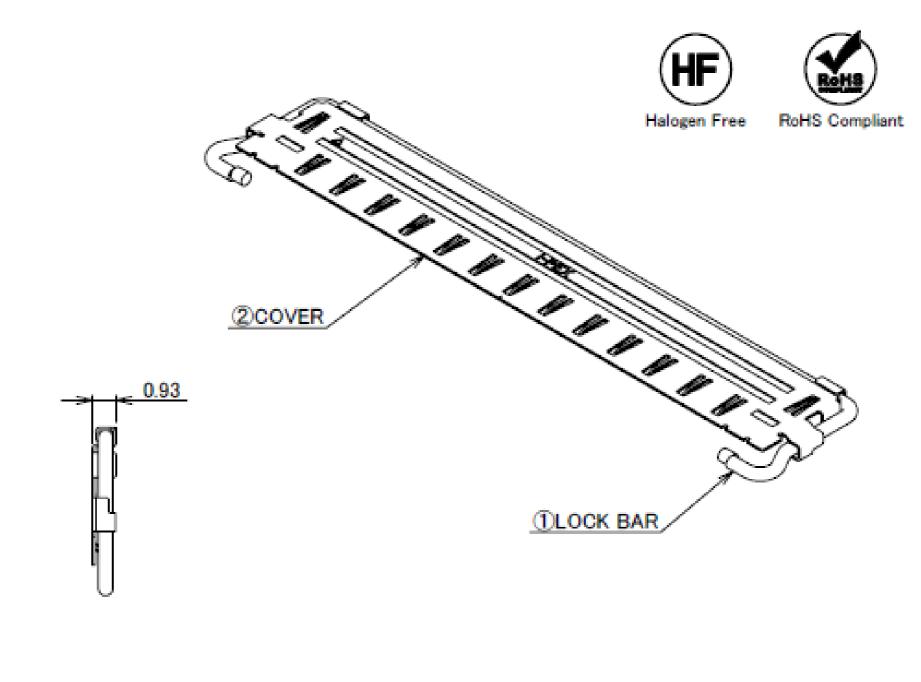




Lock Bar Assembly

Recommende	d P/N	20789-0**T-01
PART NO.	Pos.	
20789-060T-01	60	

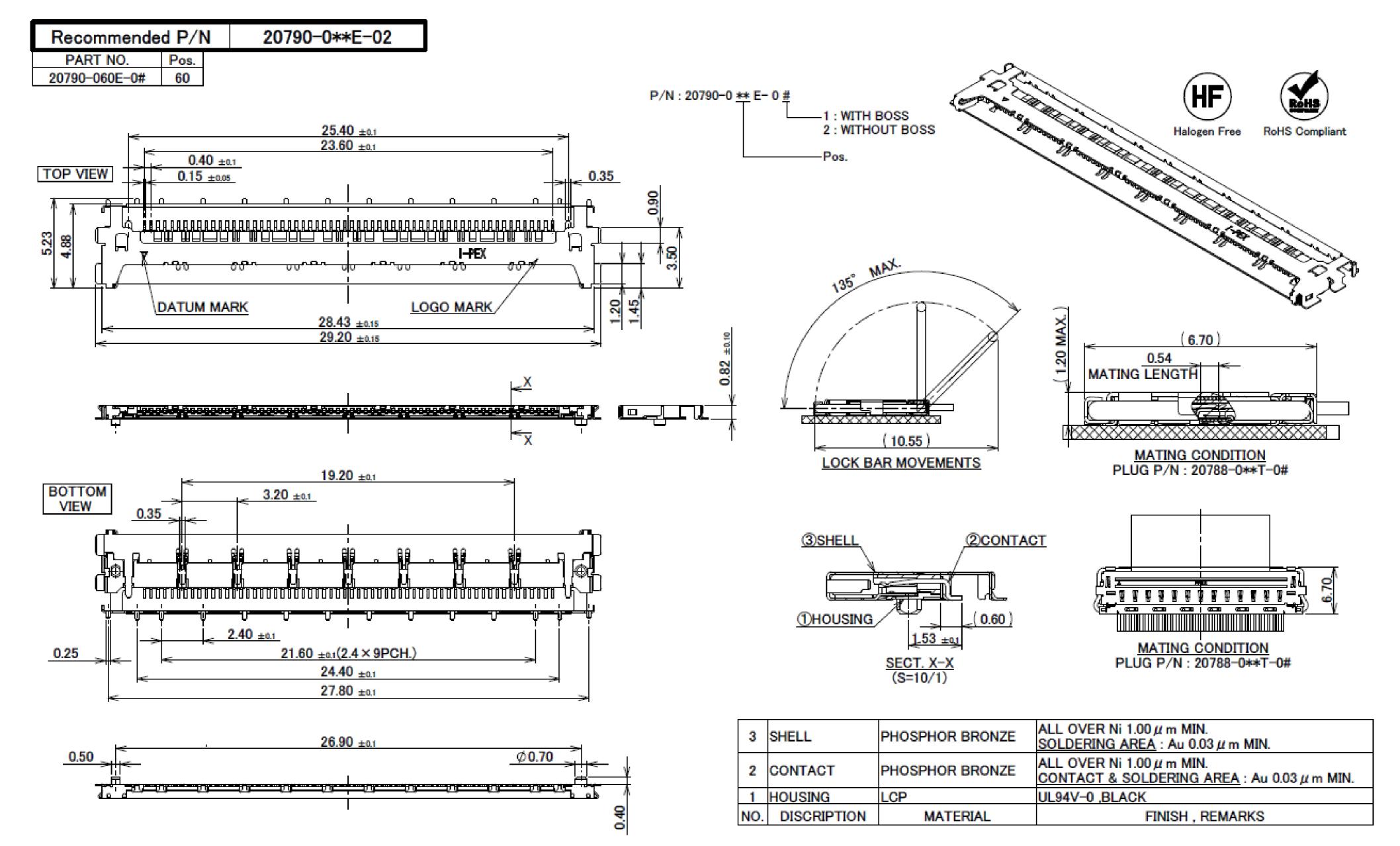




2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
1	LOCK BAR	SUS ϕ 0.55	_
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

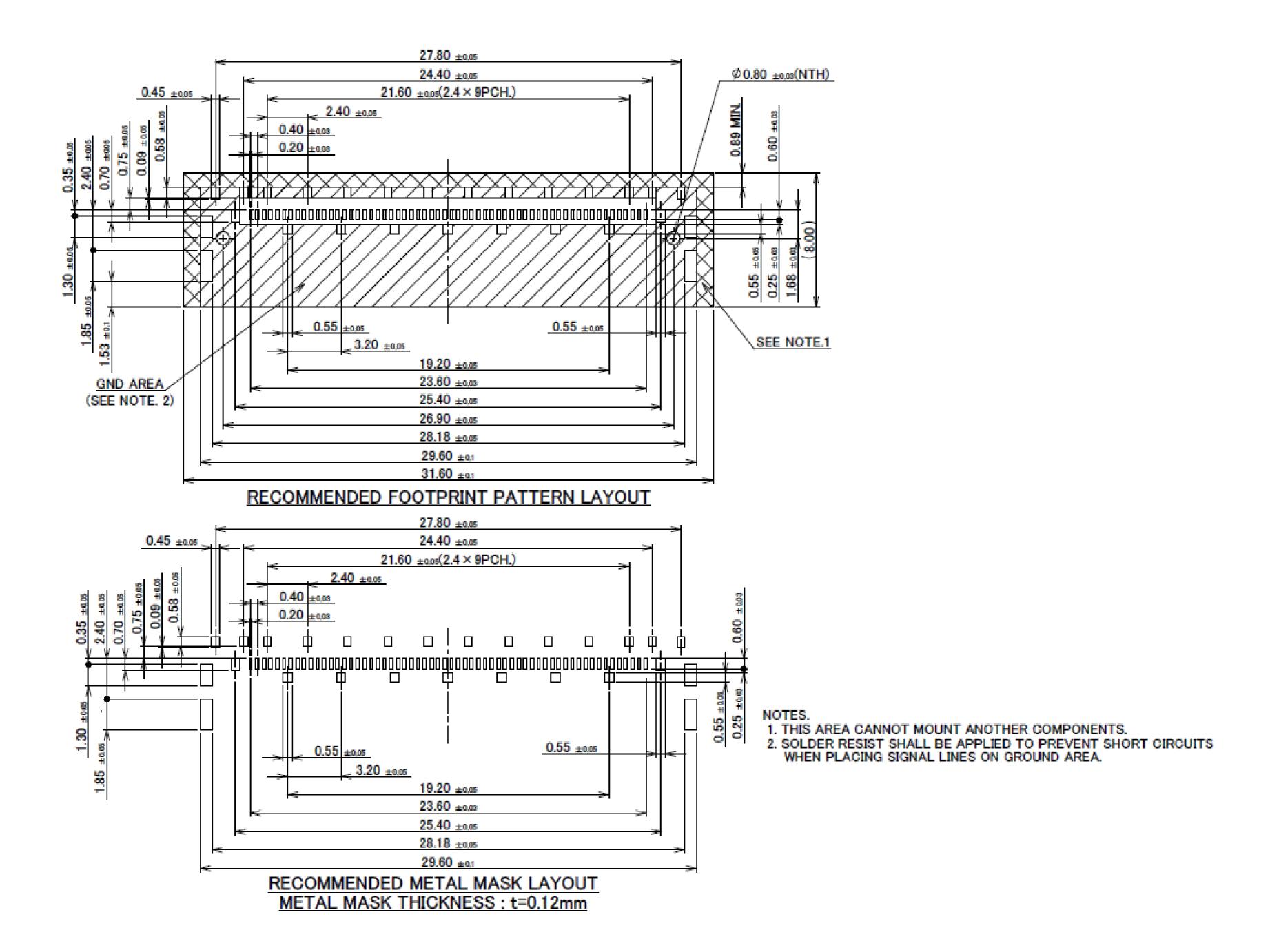
Rev.9

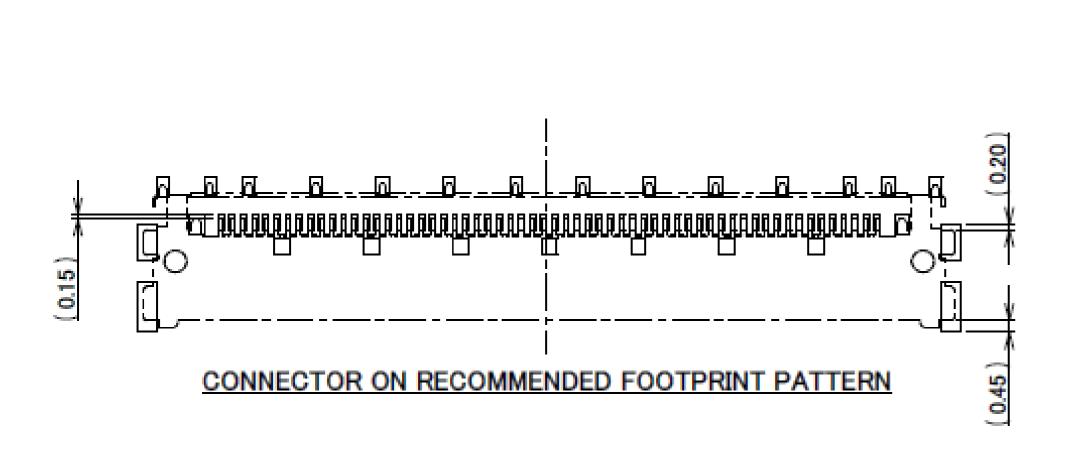
Receptacle Assembly

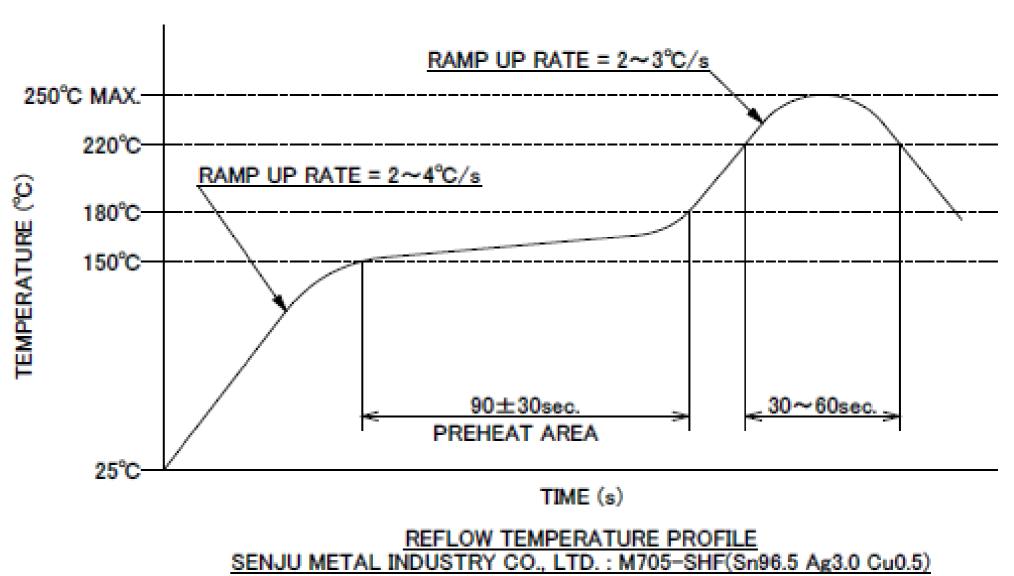




Receptacle Assembly







Rev.12

Rev.12

ITEMS	SPECIFICATION		
* DDI TO A DI E O A DI E	MICRO COAX : AWG# 44 , 42 , 40 , 38 , 36		
APPLICABLE CABLE	DISCRETE: AWG# 36, 34 TWINCOAX: AWG# 40, 42		
RATING VOLTAGE	100V AC (PER CONTACT)		
MATING VOLTAGE	0.1A AC/DC [AWG#44] PER CONTACT / UP TO 60 CONTACTS		
	0.1A AC/DC [AWG#44] PER CONTACT / UP TO 60 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT / UP TO 60 CONTACTS		
	0.3A AC/DC [AWG#40] PER CONTACT / UP TO 60 CONTACTS		
DATING AMPERAGE (FOR CONTACT)	0.5A AC/DC [AWG#38] PER CONTACT / UP TO 18 CONTACTS		
RATING AMPERAGE (FOR CONTACT)	0.8A AC/DC [AWG#36] PER CONTACT / UP TO 6 CONTACTS		
	1.0A AC/DC [AWG#34] PER CONTACT / UP TO 6 CONTACTS		
	**TESTING BY 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)		
	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: ✓ 40mohm MAX.		
	275mohm MAX.(AWG#36)		
CONTACT RESISTANCE	360mohm MAX.(AWG#38)		
	600mohm MAX.(AWG#40)		
	700mohm MAX.(AWG#42)		
ODOLIND CHELL DECICEANOE	1080mohm MAX.(AWG#44) INITIAL: 50mohm MAX. / AFTER TEST: ✓ 40mohm MAX.		
GROUND SHELL RESISTANCE			
INSULATION RESISTANCE	INITIAL: 1000Mohm MIN. / AFTER TEST: 500Mohm MIN.		
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min		
DURABILITY	30 CYCLES		
MATING FORCE (INITIAL / AFTER 30 CYCLES)	29.10N MAX.		
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	6.0N MIN.		
CABLE RETENTION FORCE	29.40N MIN.		
PRODUCT SPECIFICATION	PRS-2261		
TEST REPORT	TR-16075		
INSTRUCTION MANUAL	HIM-16028		
ASSEMBLY MANUAL	ASM-16004		
APPEARANCE CRITERIA NO.	QLS-A***		

Rev.10





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