Micro-Coaxial Connector

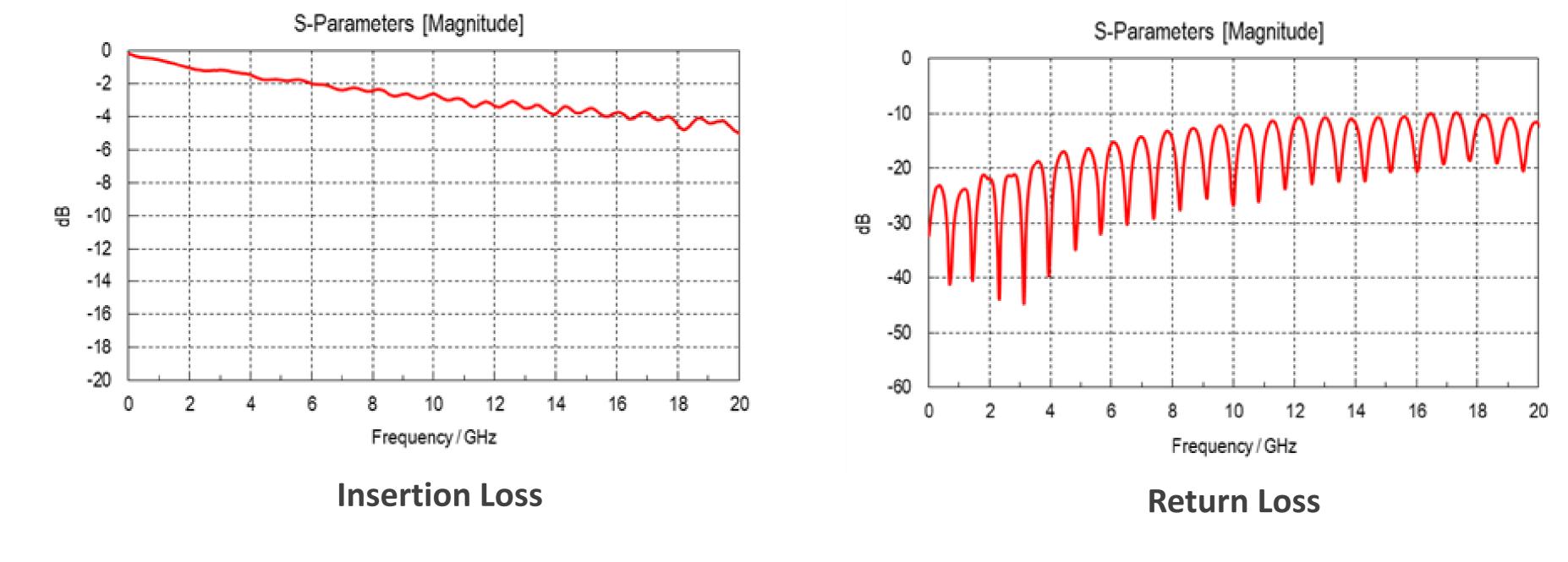
CABLINE[®]-CA IIF PLUS

Fully-shielded with multi-point ground and mechanical lock, 0.4 mm pitch, Horizontal mating type FPC plug connector

Product Specifications:			Applicable FPC		
Mating	type	Horizontal	FPC Type	Shielded FPC	
Board Pitch (mm)		0.4	FPC Pitch (mm)	0.4	
Wiping Length (mm)		0.48	FPC Contact Point	Тор	
Mated size	Height	1.2 max.	FPC Thickness (mm)	Contact Area: 0.25 +0.02/-0.03	
	Width	30.95		Ground Area: 0.37 +0.04/-0.06	
(mm)	Depth	7.24	Applicable Standards (Reference Only):		
Pin Counts	Range	60	32 GT/s NRZ, USB4 Gen4 (40 Gbps/Lane PAM3), Display Port UHBR20 (20 Gbps/Lane)		
	Available	60			

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

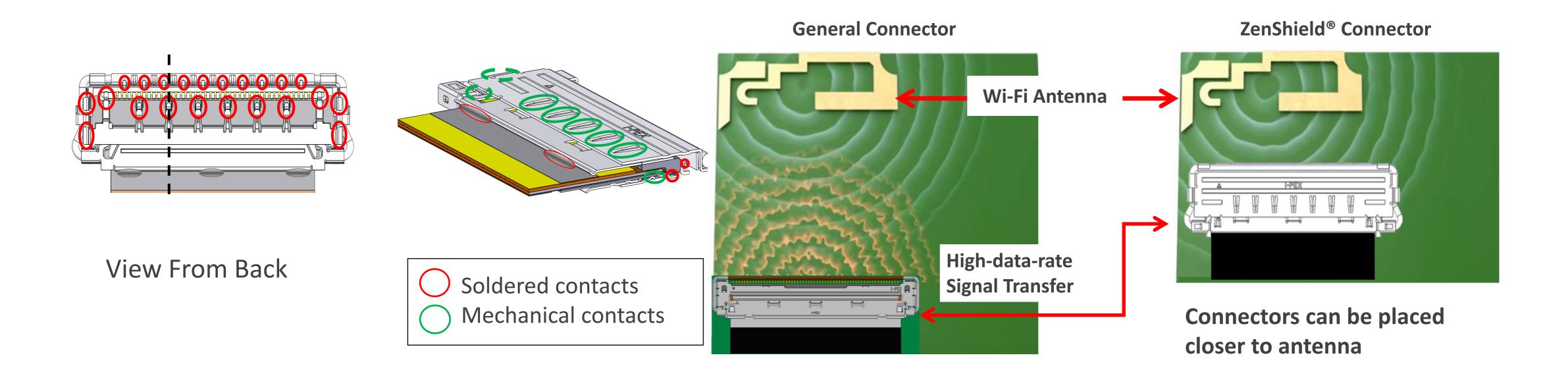
Excellent differential SI performance(32 Gbps/Lane)



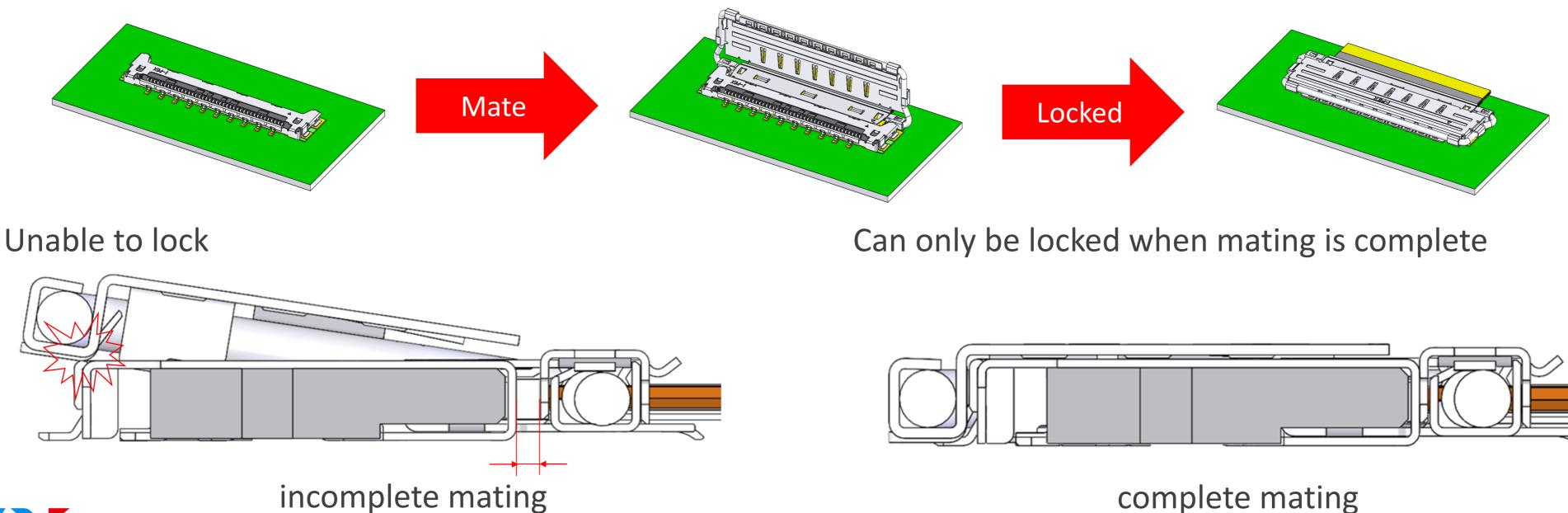


Pin Assignment GSSGSSG

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

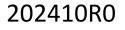


Mechanical locking cover prevents incomplete mating and back-out/unmating



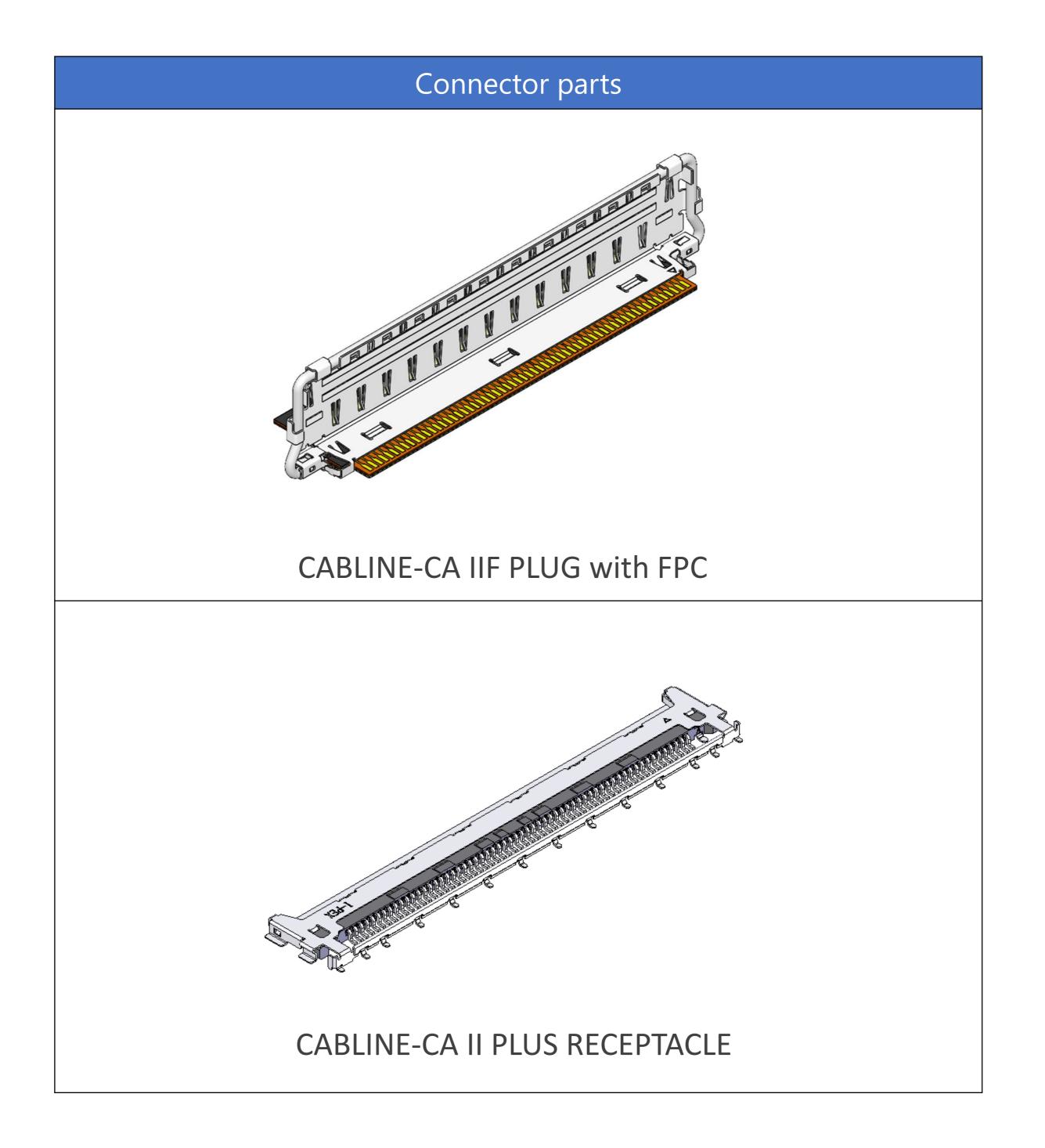


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Component Parts Details

Component Parts

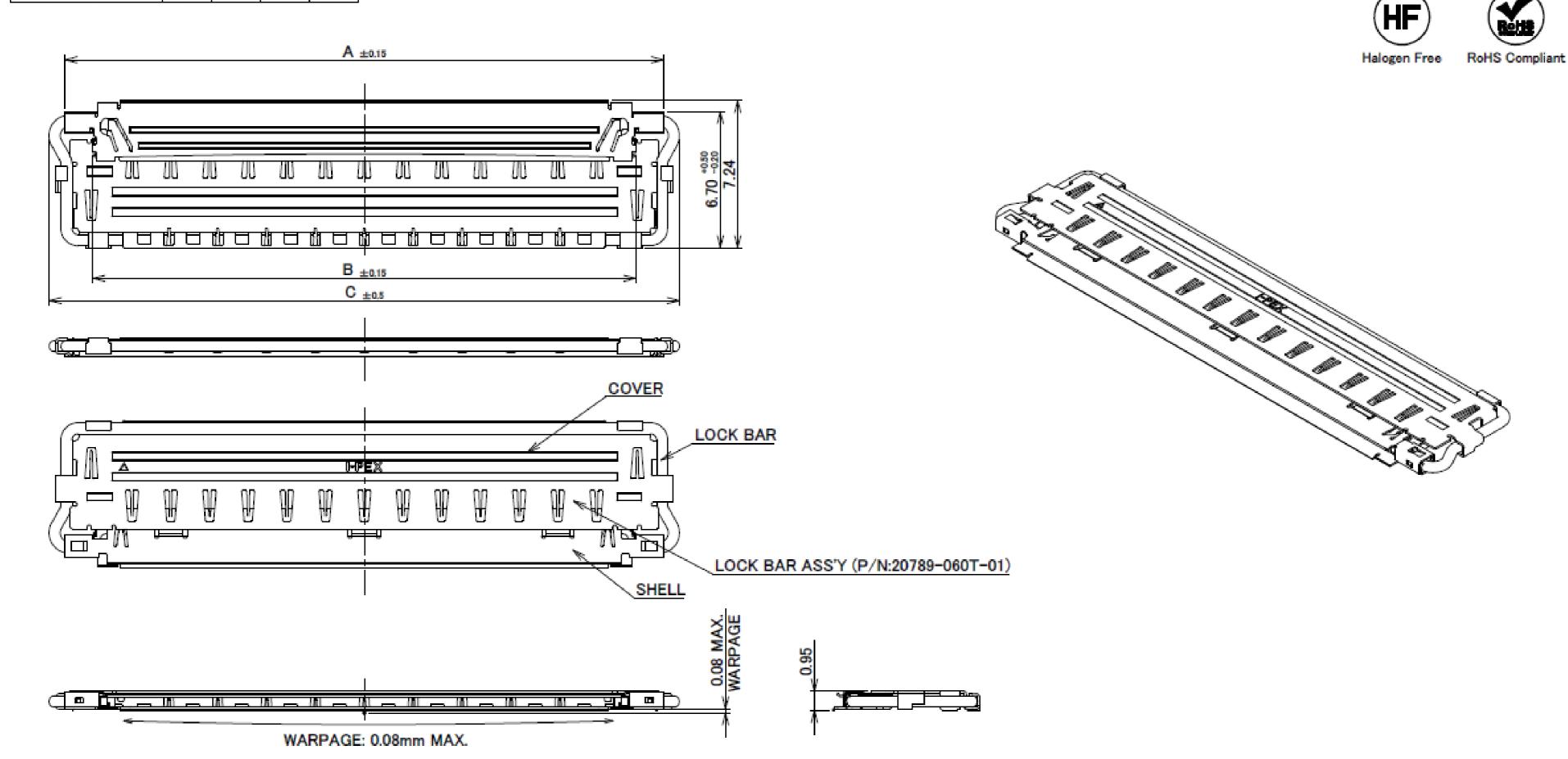




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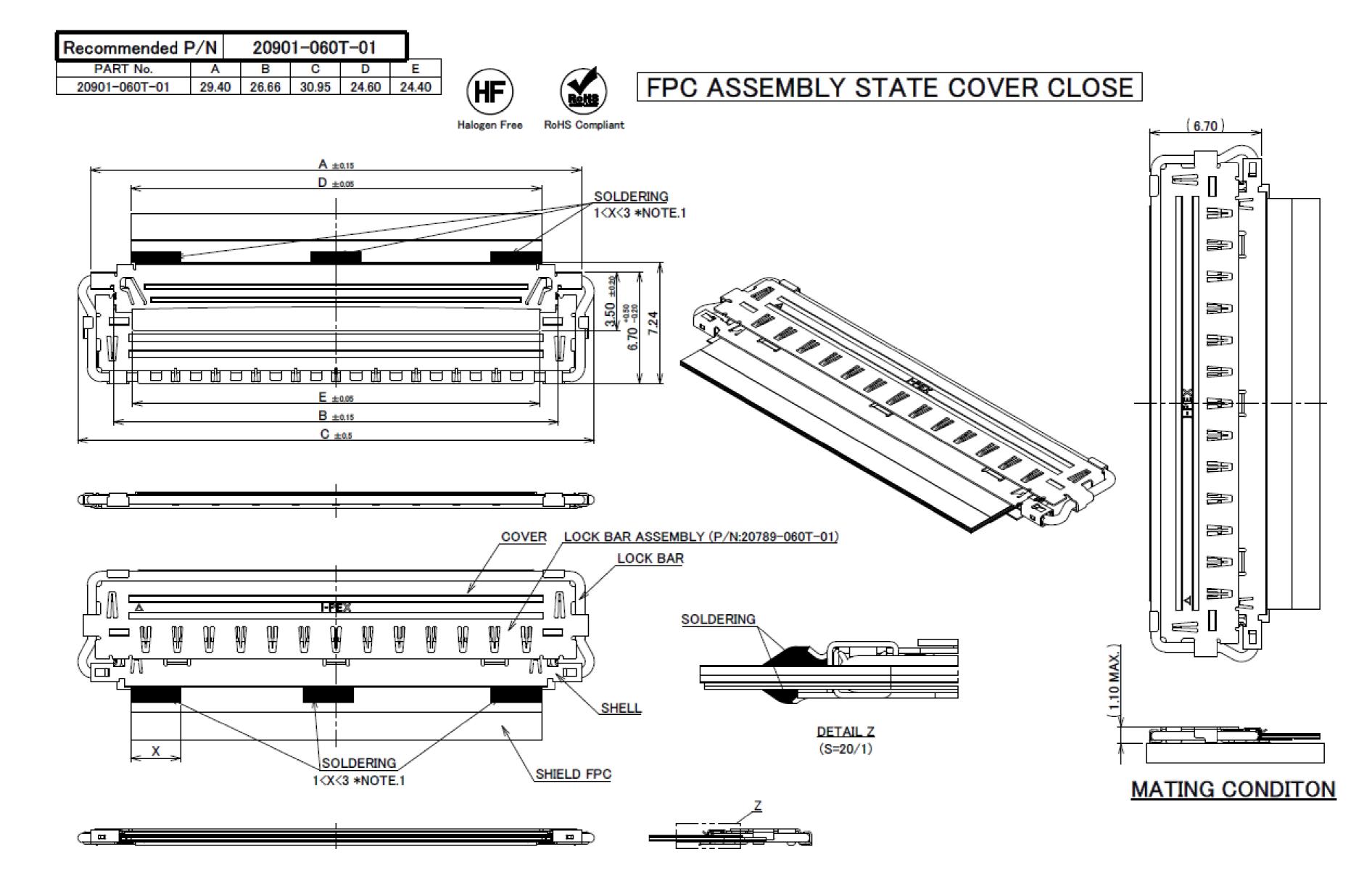
Shell Assembly

Recommended	20901-060T-01				
PART NO.	Pos.	Α	В	С	
20901-060T-01	60	29.40	26.66	30.95	



3	COVER	PHOSPHOR BRONZE	Ni PLATING
2	LOCK BAR	STAINLESS STEEL	-
1	SHELL	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.1



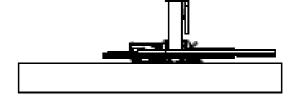
NOTES.

1.Soldering Area X is recommended dimension.

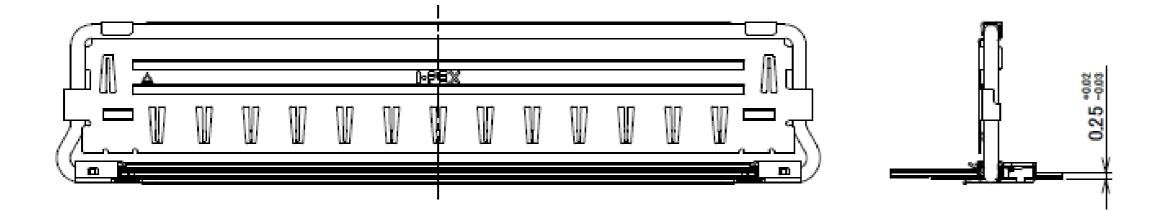
It does not mater if it might be exceed the recommended dimension.

Shell Assembly

Recommended P/N 20901–060T–01 PART №. B E F	
20901-060T-01 26.66 24.40 23.60	N
Helogen Free RoHS Compliant	(The
AFTER SOLDERING WARPAGE: 0.10mm MAX.	
	E+
$\frac{0.435_{\pm 0.085}}{1 - 1 - 1} = \frac{1}{1 - 1} = \frac{0.40_{\pm 0.02}}{1 - 1 - 1} = \frac{1}{1 -$	
	<u>790-060E-0#)</u> /

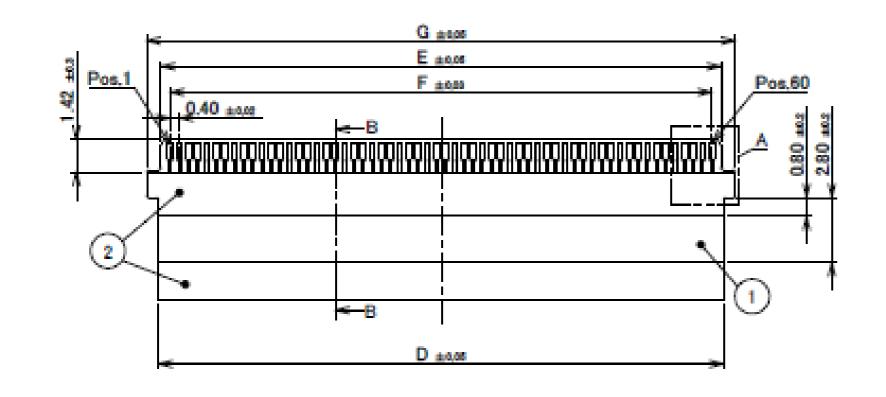


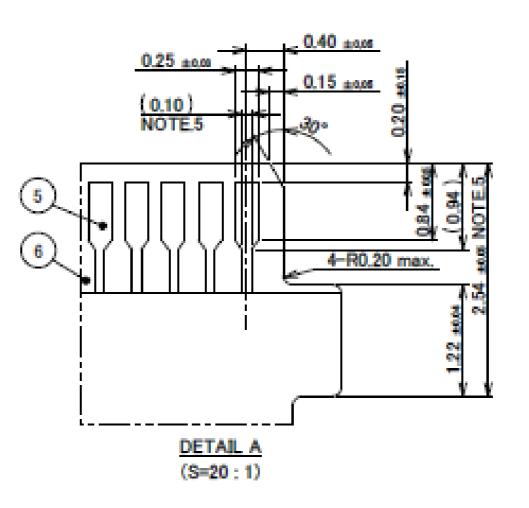
MATING CONDITON

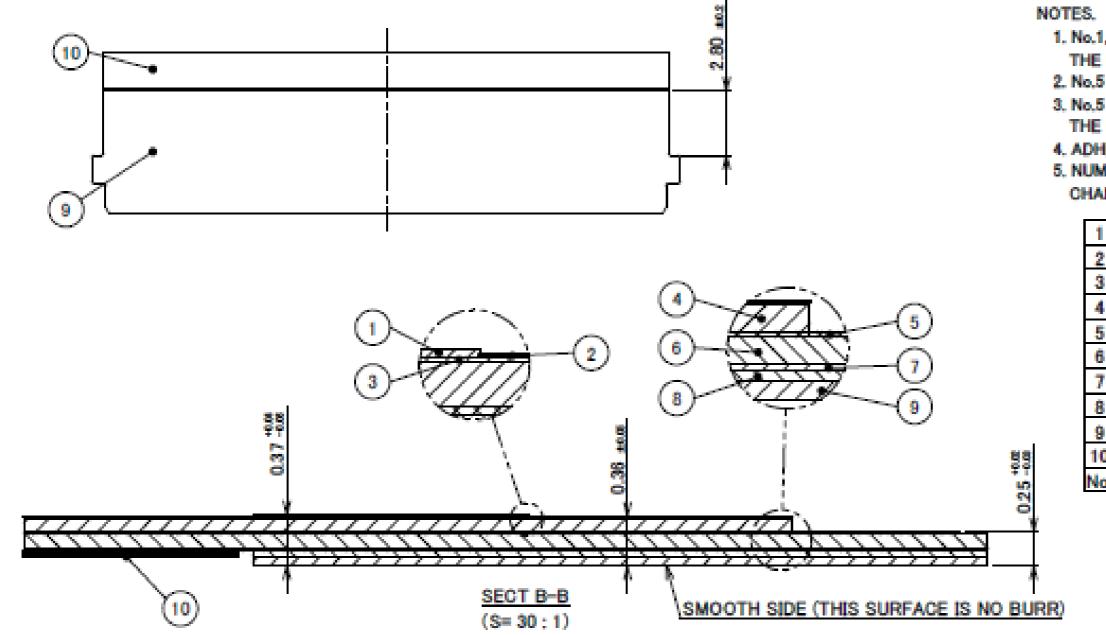




PART No.	D	Е	F	G
20901-060T-01	24,60	24,40	23,60	25,66







· · · · · · · ·==

1. No.1, 3, 7, 9 : CONDUCTOR (GROUND) ARE CARRYING OUT

THE ELECTRICAL CONNECTION.

2. No.5 ; SIGNAL Pos. AND No.1, 3, 7, 9 ; CONDUCTOR (GROUND) ARE NOT CONTACTING.

 No.5 : GROUND Pos. AND No.1, 3, 7, 9 : CONDUCTOR (GROUND) ARE CARRYING OUT THE ELECTRICAL CONNECTION.

4. ADHESIVE SHOULD USE THERMOSETTING.

5. NUMBERS WITHIN PARENTHESES ARE ARBITRARY DIMENSIONS.

CHANGE DIMENSIONS IN ACCORDANCE WITH CHARACTERISTIC IMPEDANCE VALUE.

1	CONDUCTOR(GROUND)	Cu	Ni, Au
2	INSULATOR	-	-
3	CONDUCTOR(GROUND)	Cu	-
4	INSULATOR	-	-
5	CONDUCTOR(SIGNAL, GROUND)	Cu	Ni, Au
6	INSULATOR	-	-
7	CONDUCTOR(GROUND)	Cu	-
8	CONDUCTIVE ADHESIVE	-	-
9	REINFORCING TAPE & CONDUCTOR(GROUND)	SUS	Ni
10	INSULATOR	-	-
No.	DESCRIPTION	MATERIAL	PLATING

Rev.1

Shell Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : 40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 60mohm 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 TEST)	60P : 27.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	60P : 2.88N MIN.
PRODUCT SPECIFICATION	PRS-2893
TEST REPORT	TR-24034
PACKING STANDARD	PST-24023
INSTRUCTION MANUAL	HIM-24010
ASSEMBLY MANUAL	ASM-24004
APPEARANCE CRITERIA No.	QLS-A***

Receptacle Assembly

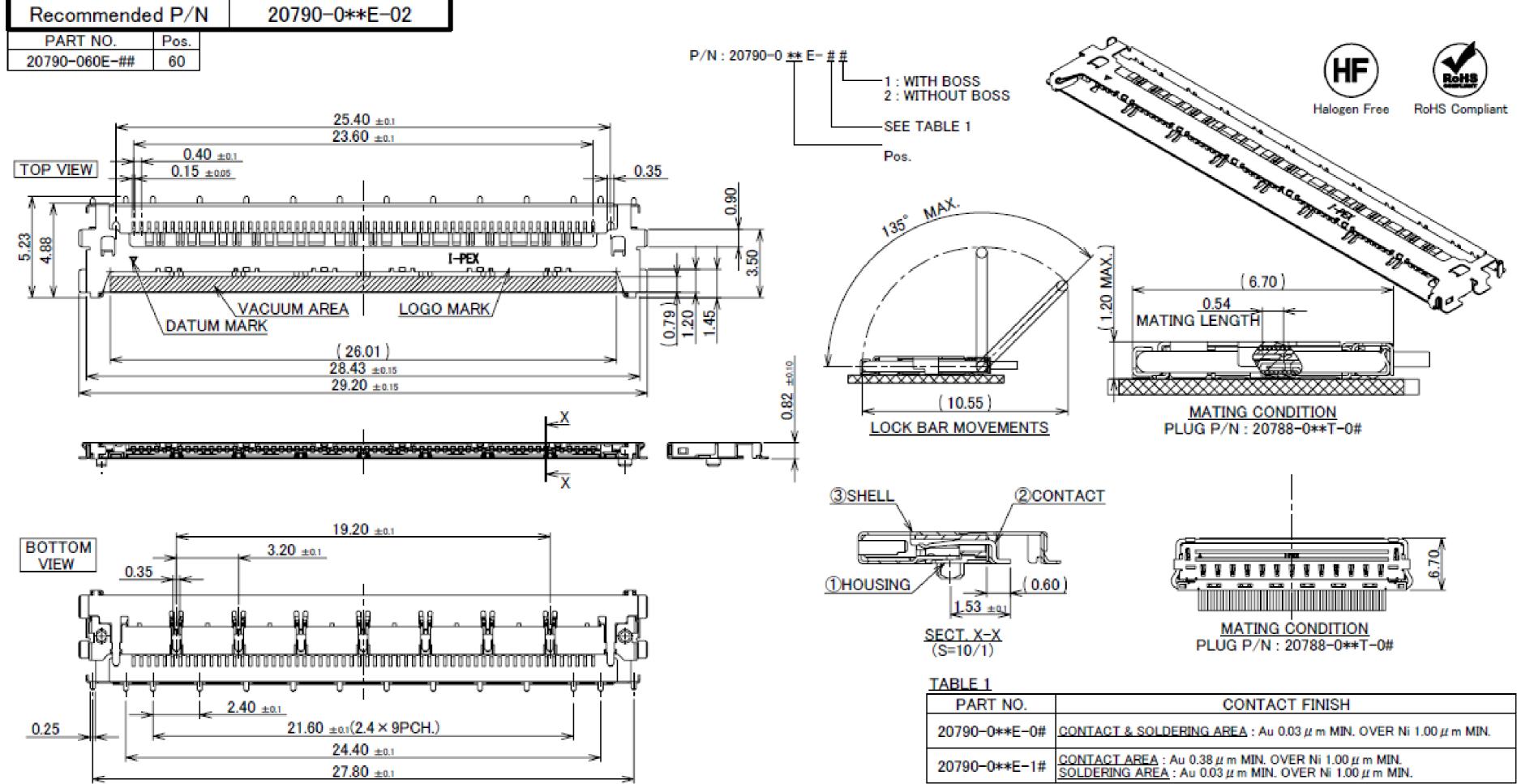
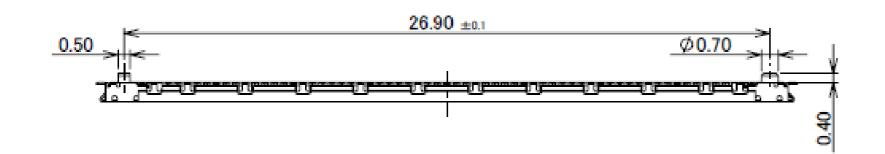


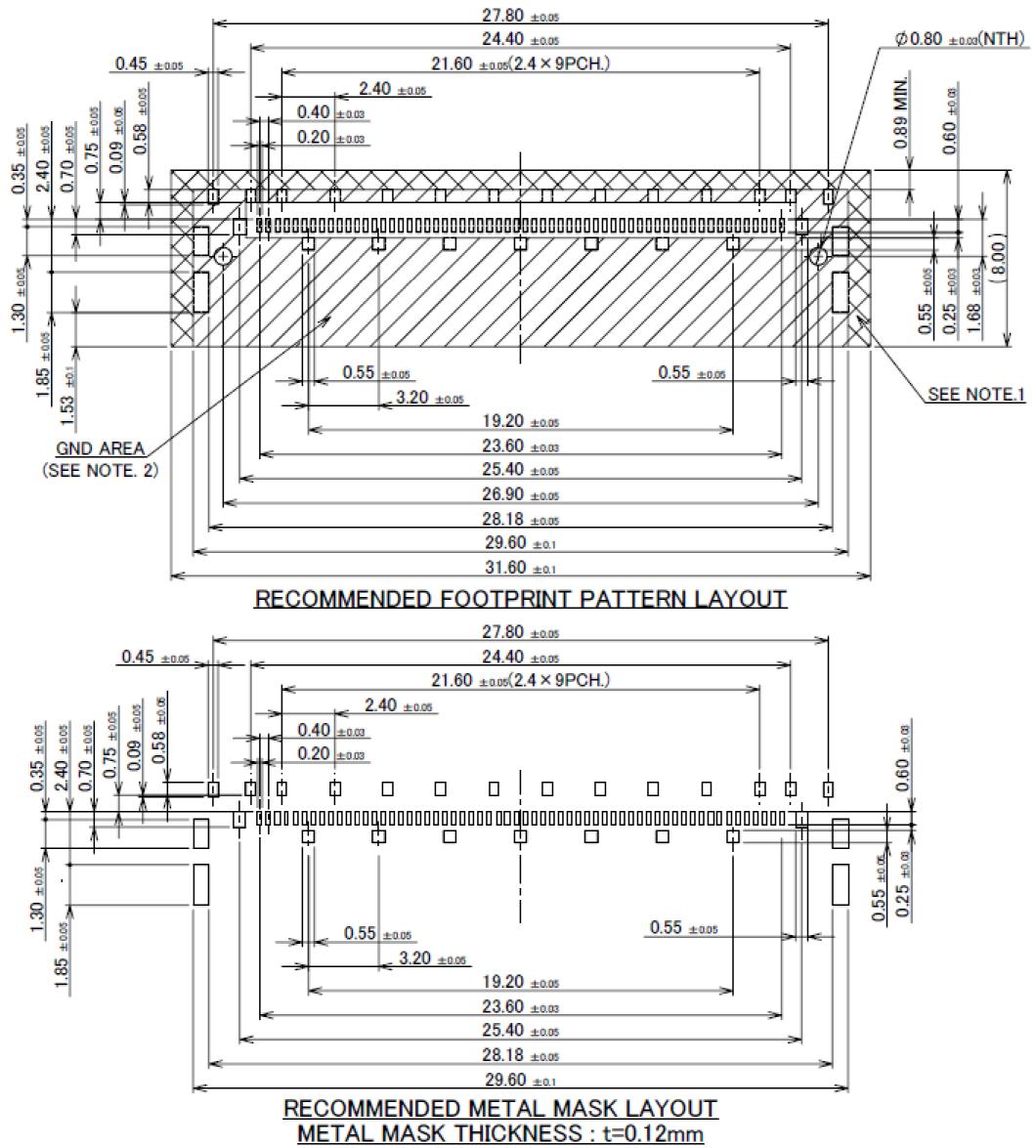
TABLE 1	
PART NO.	CONTACT FINISH
20790-0**E-0#	CONTACT & SOLDERING AREA : Au 0.03 µ m MIN. OVER Ni 1.00 µ m MIN.
	CONTACT AREA : Au 0.38 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.

3	SHELL		ALL OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	SEE TABLE 1
1	HOUSING	LCP	UL94V-0 ,BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS



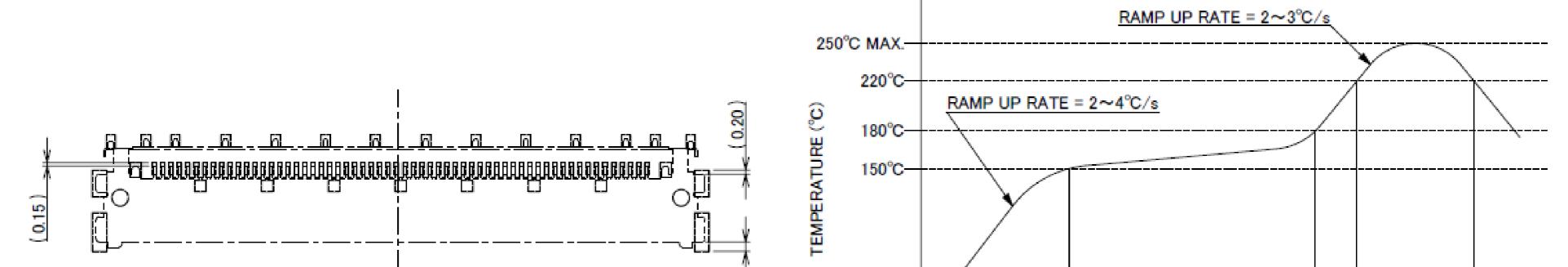
Rev.14

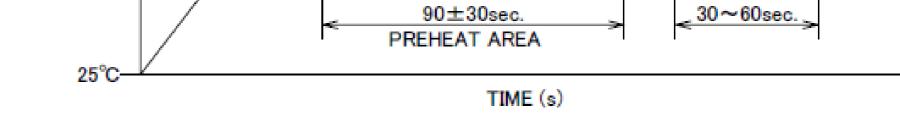
Receptacle Assembly



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

Rev.14





(0.45)

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

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Receptacle Assembly

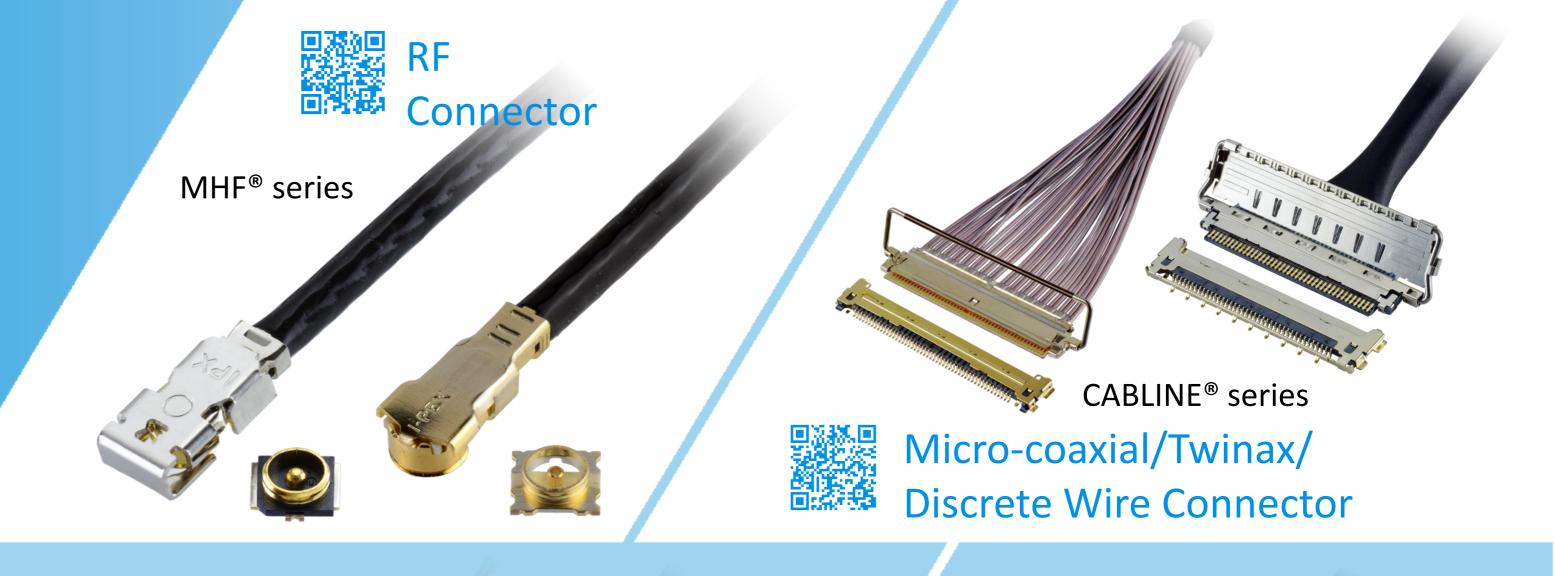
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG# 36 , 34 TWINAX CABLE : AWG# 40 , 42
RATING VOLTAGE	100V AC (PER CONTACT PIN) WTHIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 60 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 60 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 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 6 CONTACTS %TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE 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 : ⊿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)	29.10N MAX.
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	6.0N MIN.
CABLE RETENTION FORCE	29.40N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2261
TEST REPORT	TR-16075, TR-23031
INSTRUCTION MANUAL	HIM-16028
PACKING STANDARD	PST-16078
APPEARANCE CRITERIA NO.	QLS-A***

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Custom Connectors Available





LIGHTPASS[®] series



Board-to-Board Connector



Power Connector/ 道深段 Terminal



MINIFLEX[®] series

NOVASTACK[®] series

EVAFLEX[®] series



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