CABLINE®-VS IIF

Fully-shielded with multi-point ground and mechanical lock, 0.5 mm pitch, Horizontal mating type FPC plug connector

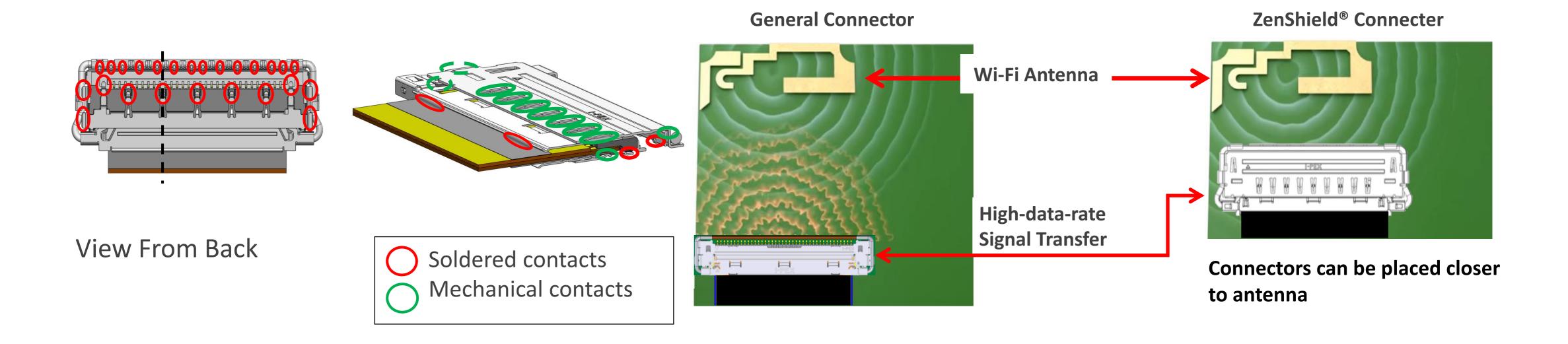
	Product Specifications:				
	Mating type		Horizontal		
	Board Pitch (mm)		0.5		
	Wiping Len	gth (mm)	0.48		
	Mated size (mm)	Height	1.2 max. with cover		
		Width	Formula: 6.85 + (0.5*?p)		
		Depth	7.24		
	Din Counts	Range	Up to 55		
	Pin Counts	Available	30, 40		

Applicable FPC					
FPC Type	Shielded FPC				
FPC Pitch (mm)	0.5				
FPC Contact Point	Тор				
FDC Thislus as a (ways)	Contact Area: 0.25 +0.02/-0.03				
FPC Thickness (mm)	Ground Area: 0.37 +0.04/-0.06				
Applicable Standards (Reference Only):					
USB4 Gen3 (20 Gbps/Lane), Display Port UHBR20 (20 Gbps/Lane) PCle® Gen 4 (16 GT/s/Lane), eDP HBR 3 (8.1 Gbps/Lane)					

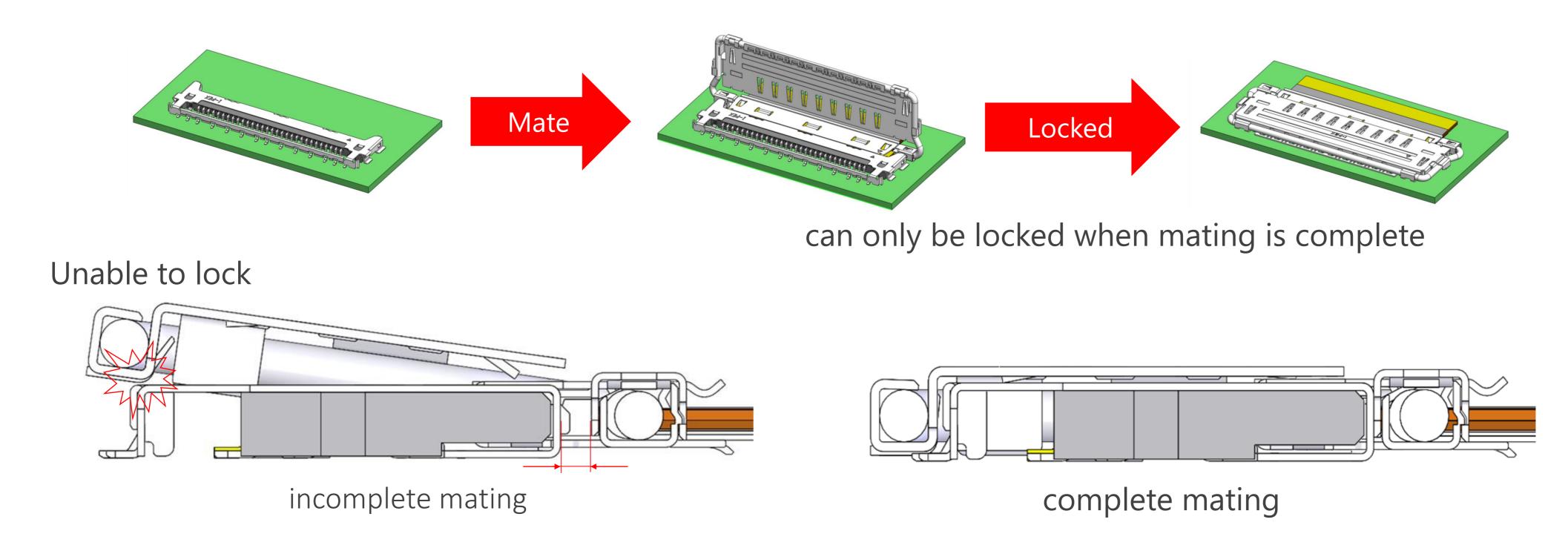




ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage



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



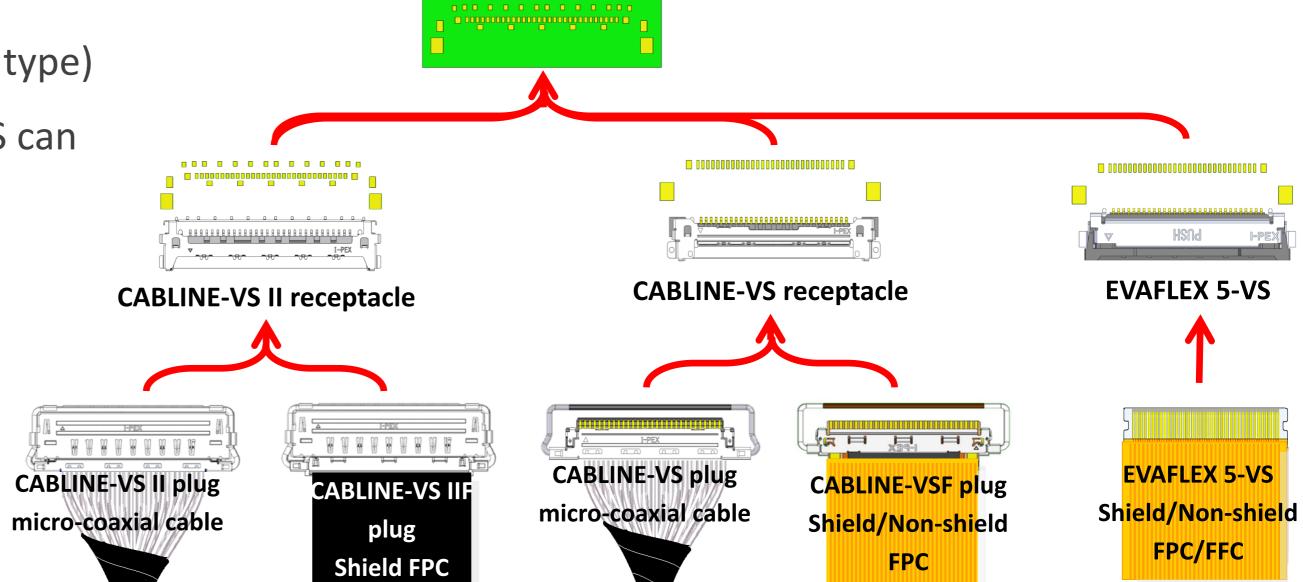
Multiple connector options with I-PEX VS Series

I-PEX VS series (0.5 mm pitch, horizontal mating type)

CABLINE-VS, VS II receptacles and EVAFLEX® 5-VS can be mounted to the same PCB layout.

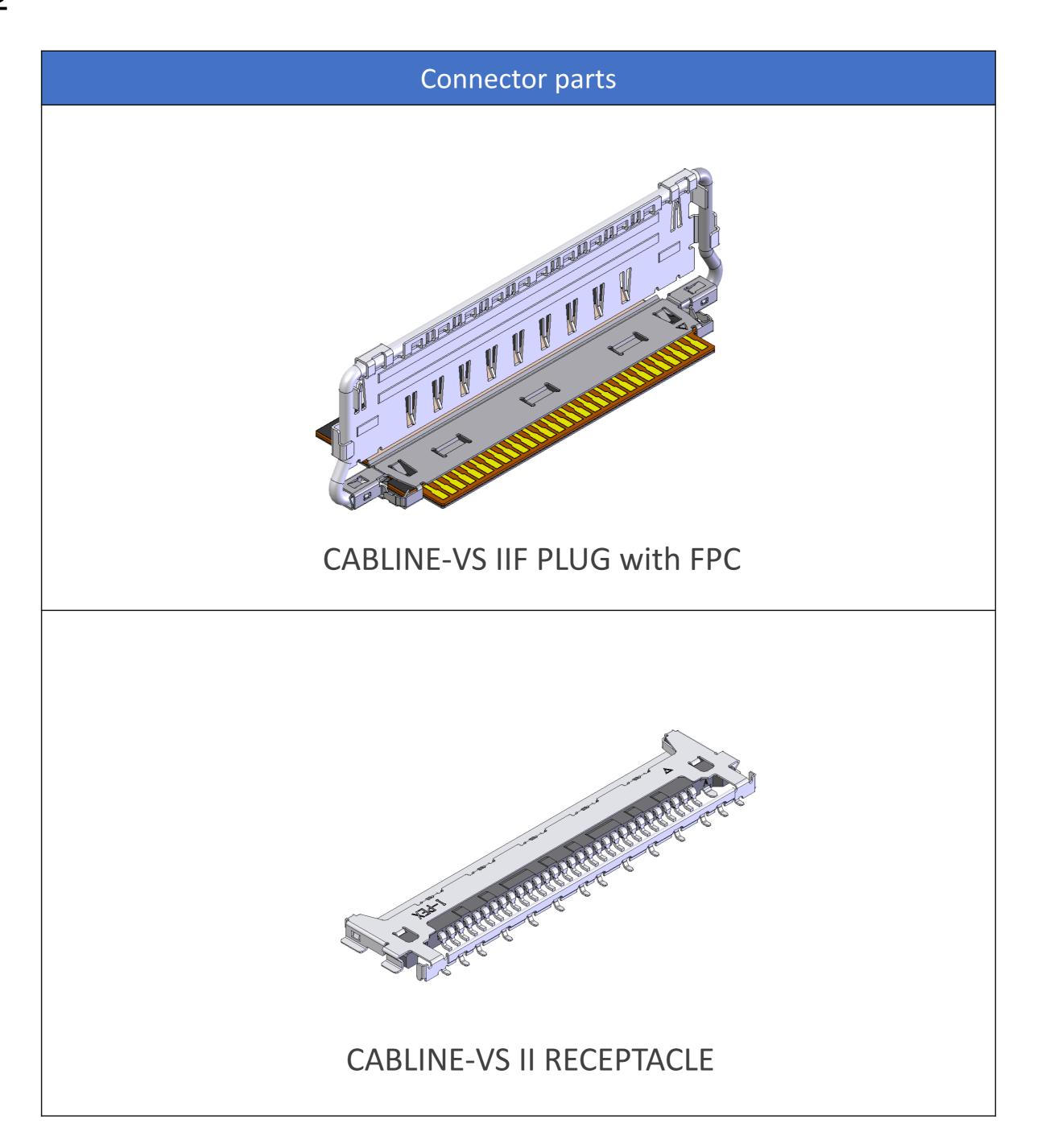
CABLINE-VS Receptacle:

Has #1 share in the Notebook PC panel connector market as VESA standard connector.



Component Parts Details

Component Parts



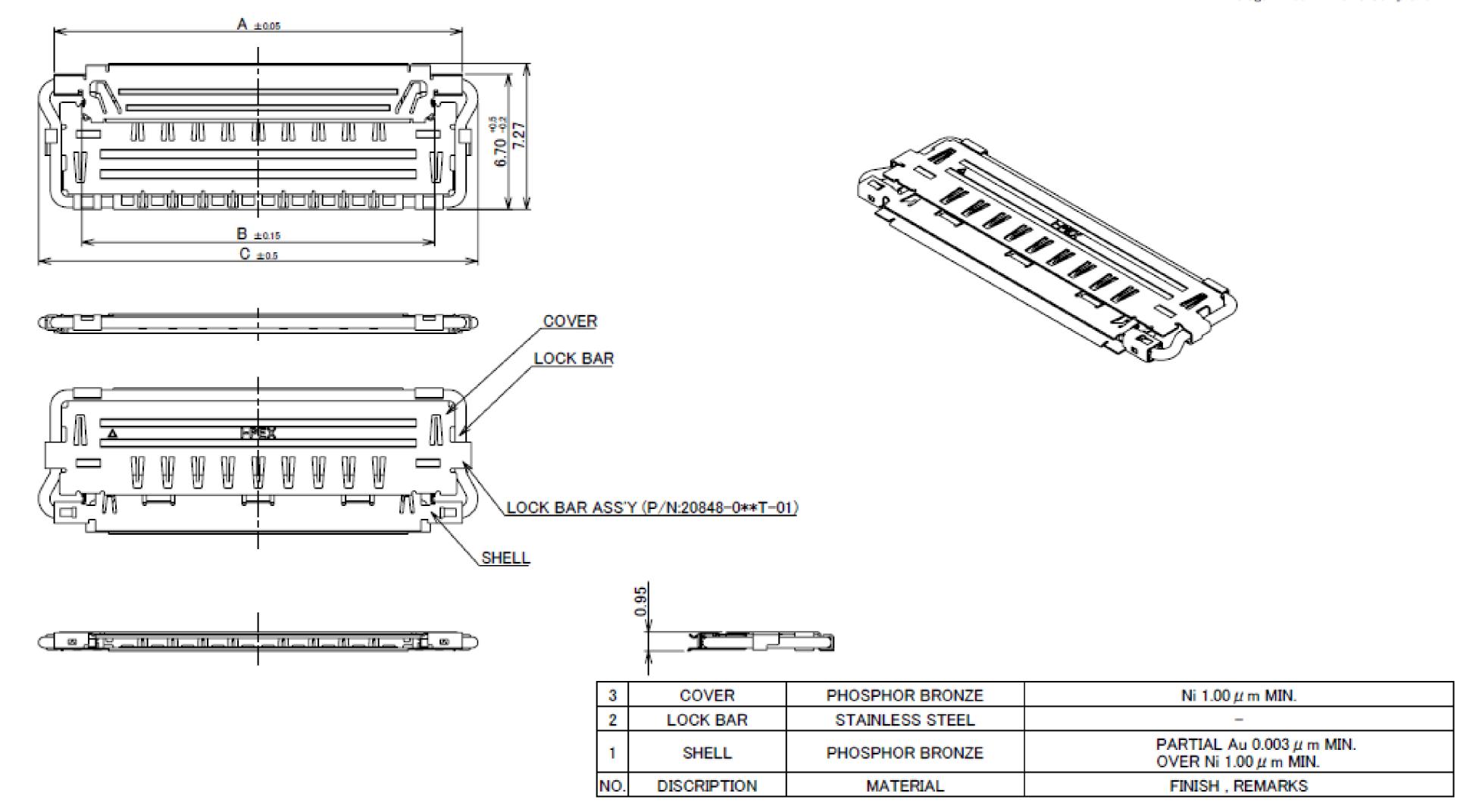


Shell Assembly

F	Recommended P/N			20862-0**T-01			
	PART No.	Pos.	Α	В	С		
	20862-030T-01	30	20.30	17.56	21.85		
	20862-040T-01	40	25.30	22.56	26.85		







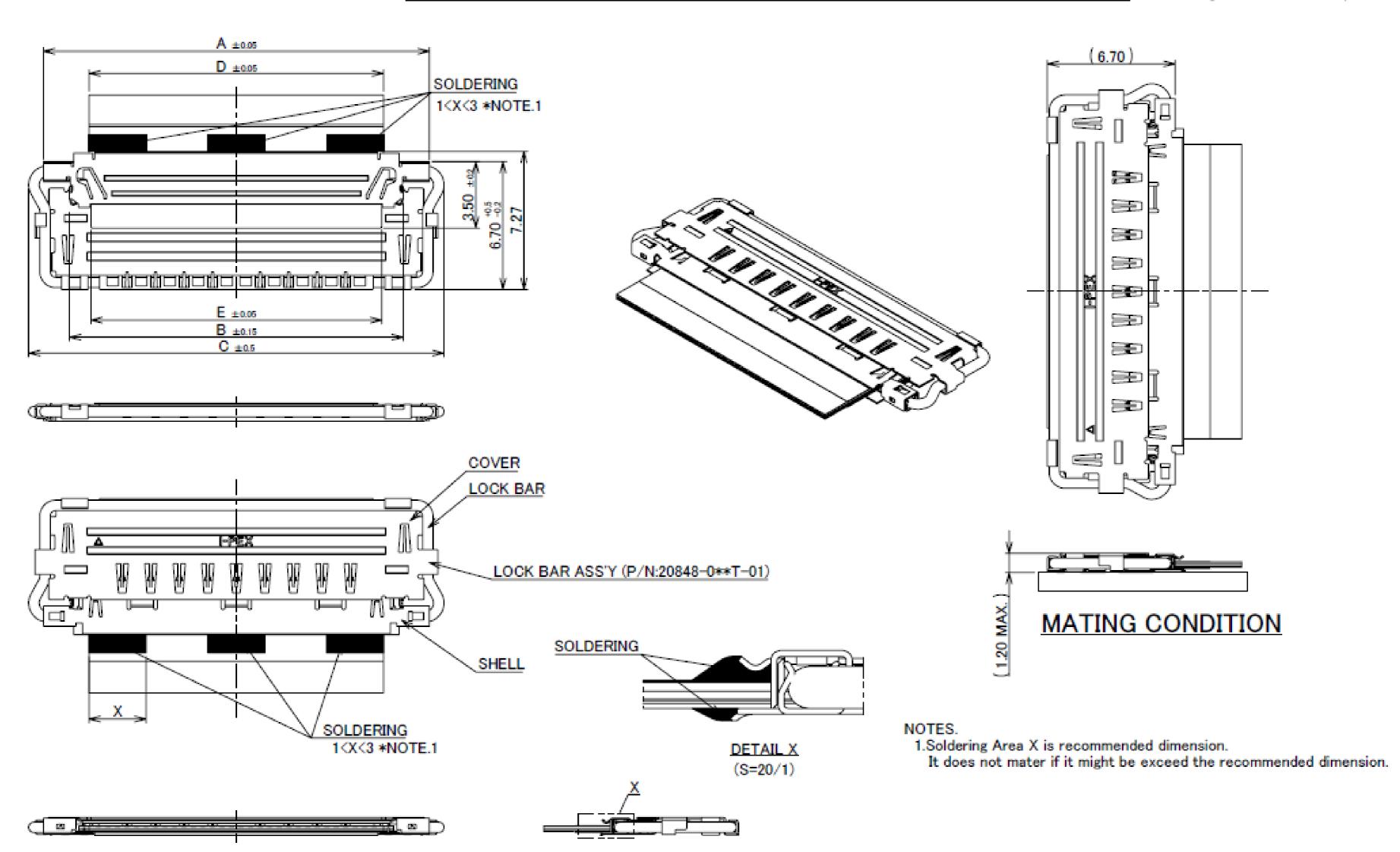
Rev.8

Recommended F	P/N	20	862-	0**T	-01	
PART No.	Pos.	Α	В	C	D	E
20862-030T-01	30	20.30	17.56	21.85	15.50	15.30
20862-040T-01	40	25.30	22.56	26.85	20.50	20.30

FPC ASS'Y STATE COVER CLOSE









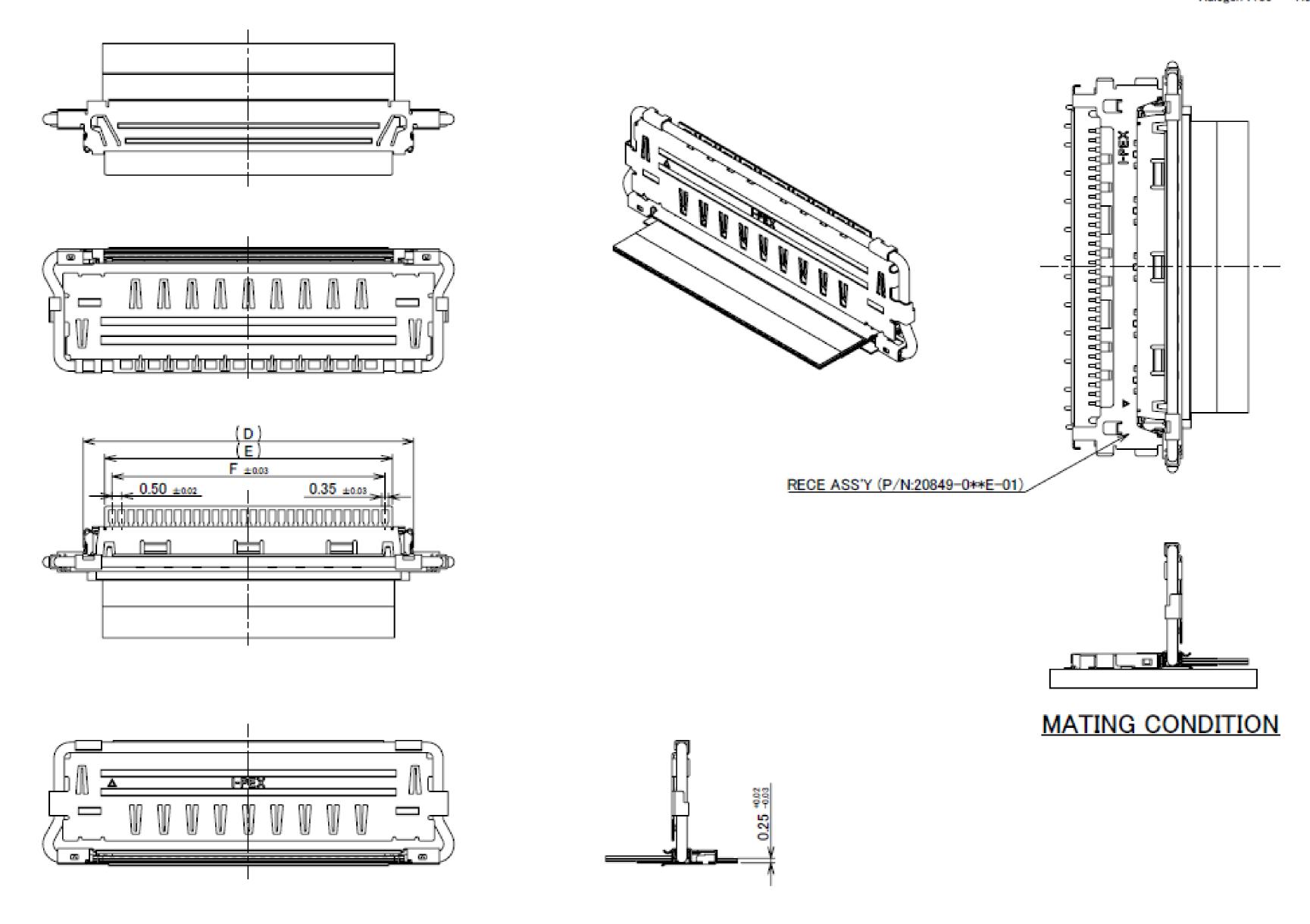
Shell Assembly

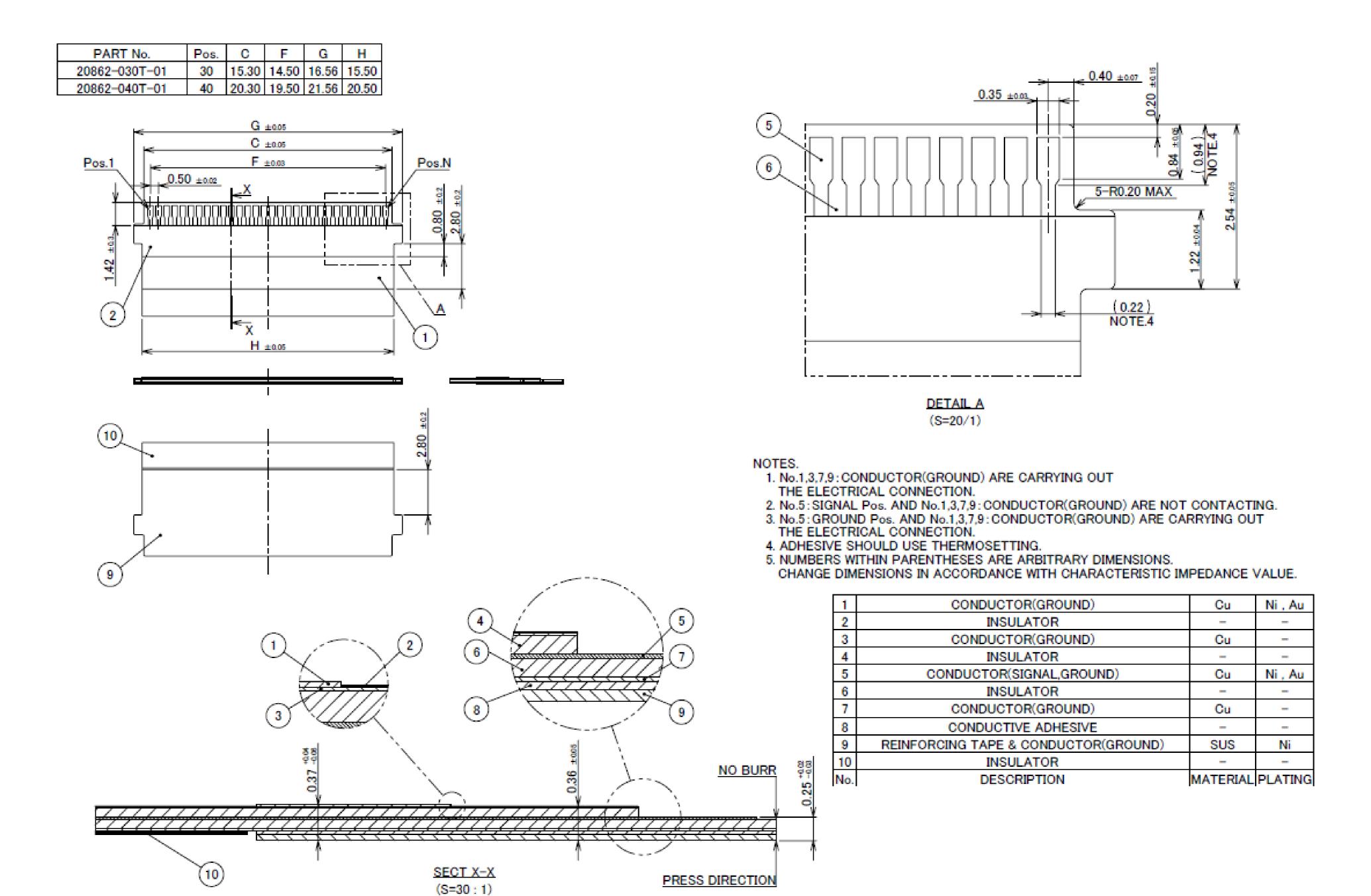
Recommended F	P/N	20862-0**T-01			
PART No.	Pos.	D	Ε	F	
20862-030T-01	30	17.56	15.30	14.50	
20862-040T-01	40	22.56	20.30	19.50	

FPC ASS'Y STATE COVER OPEN



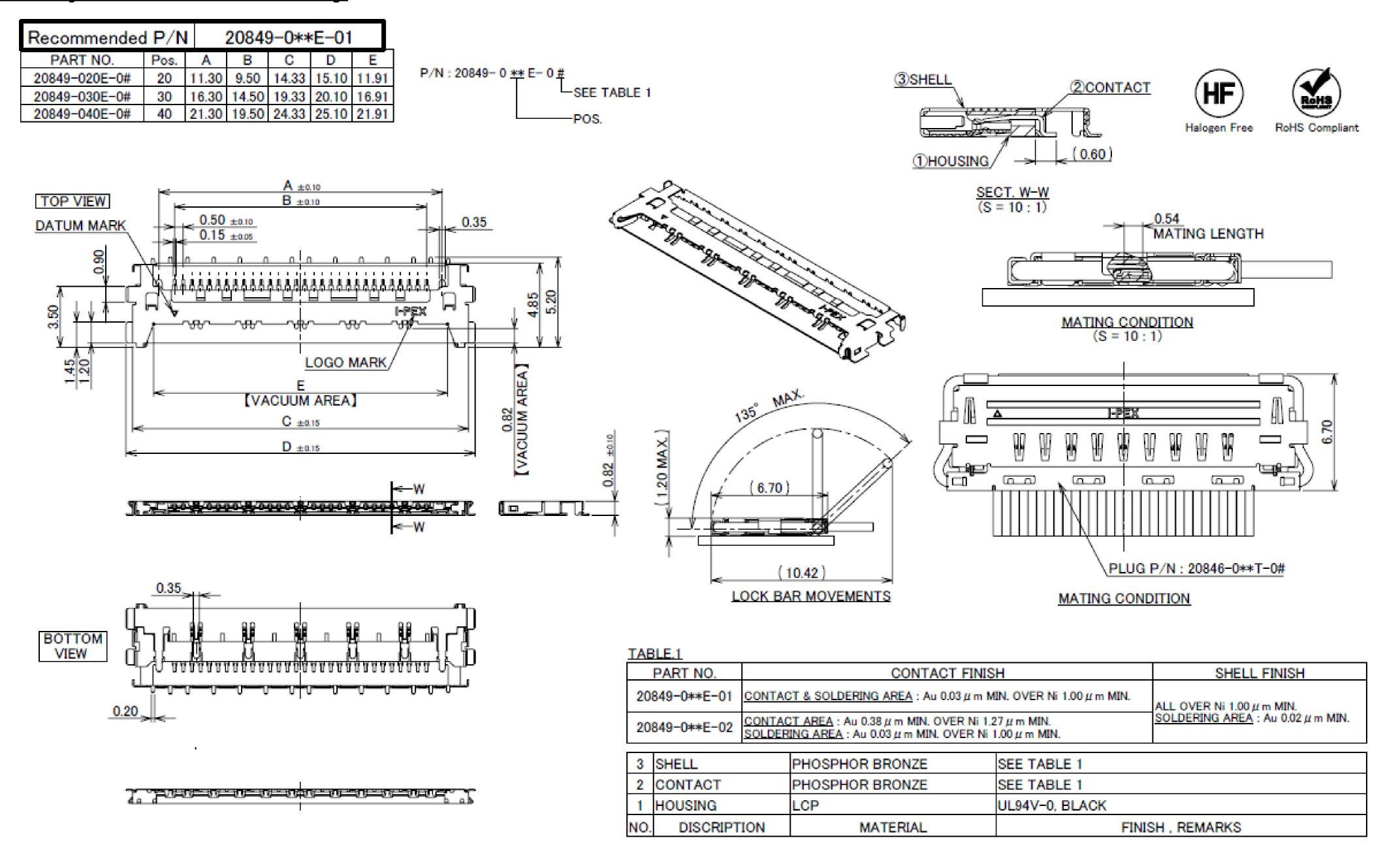








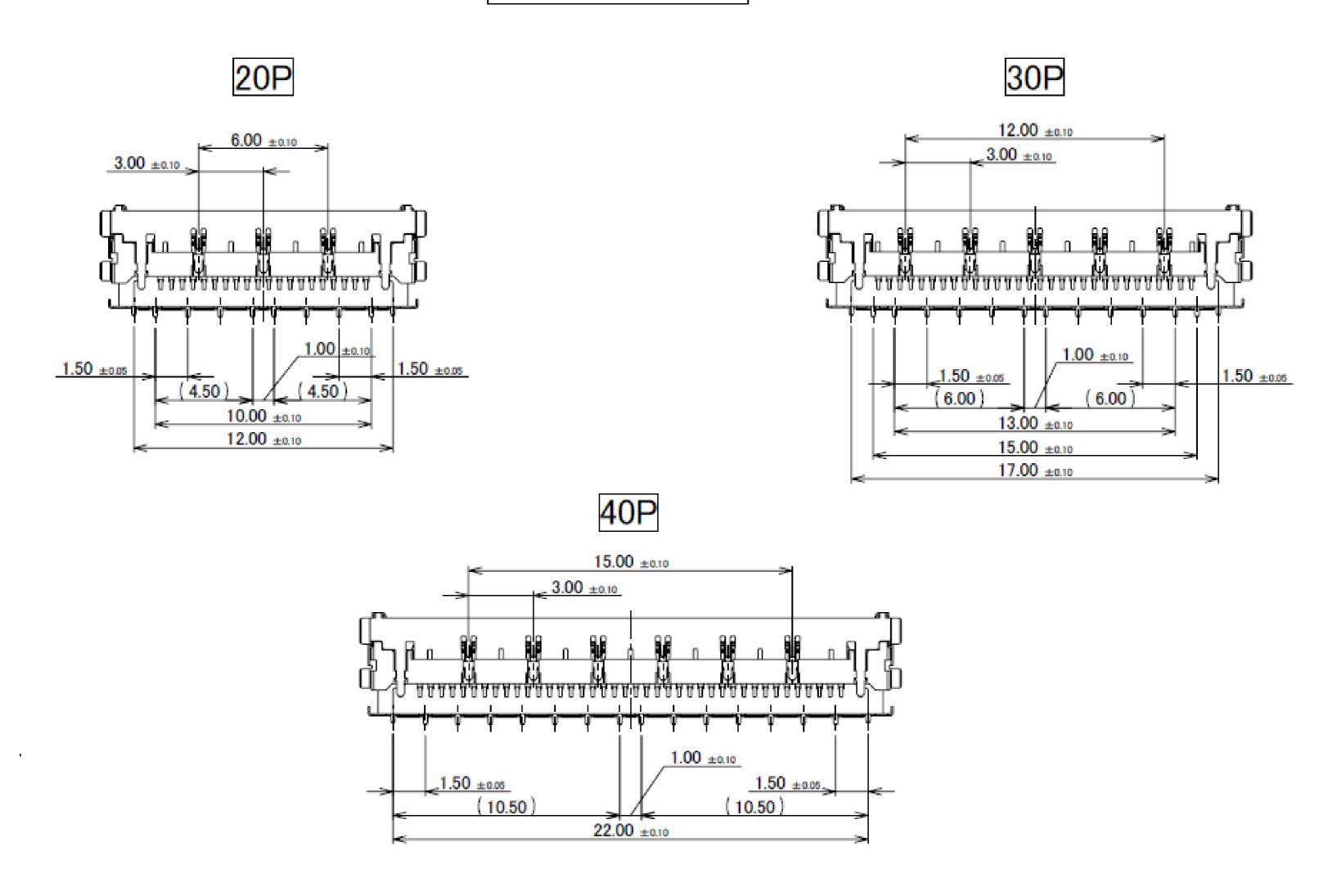
Receptacle Assembly



Rev.10

PART NO.	Pos.
20849-020E-0#	20
20849-030E-0#	30
20849-040E-0#	40

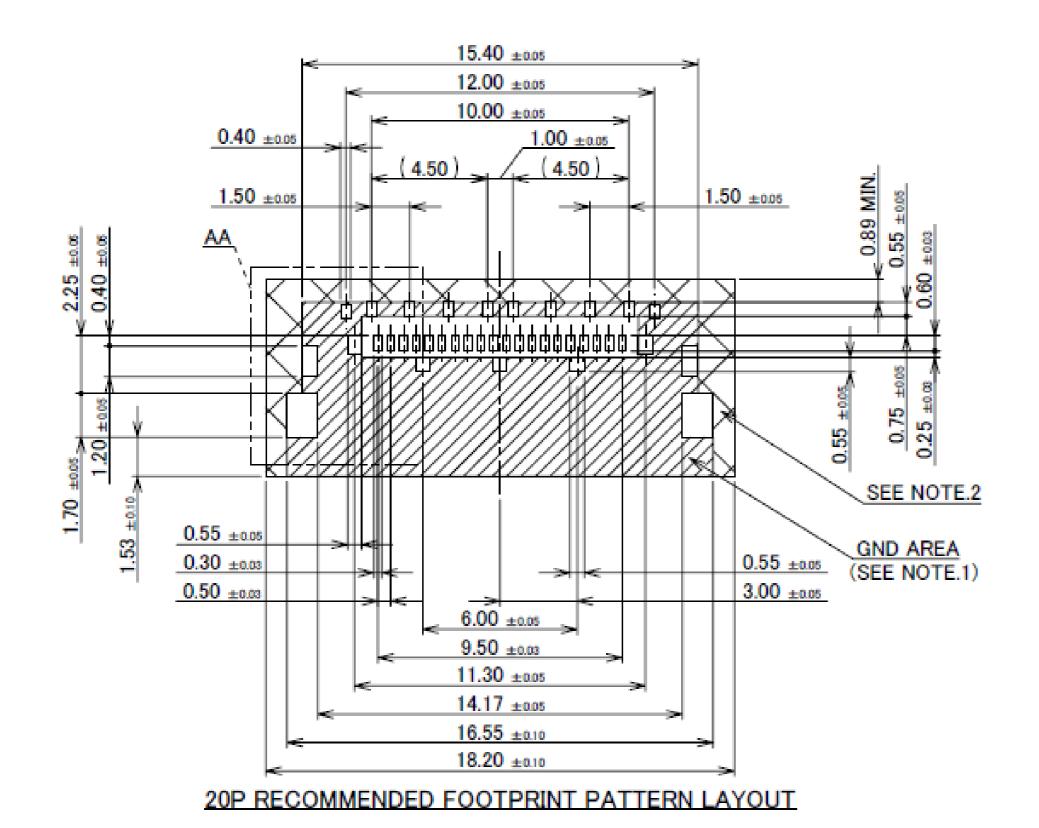
BOTTOM VIEW

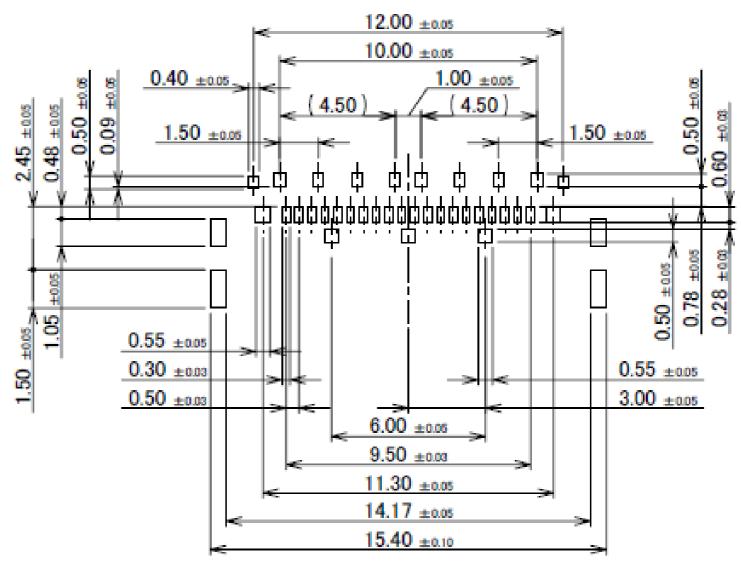




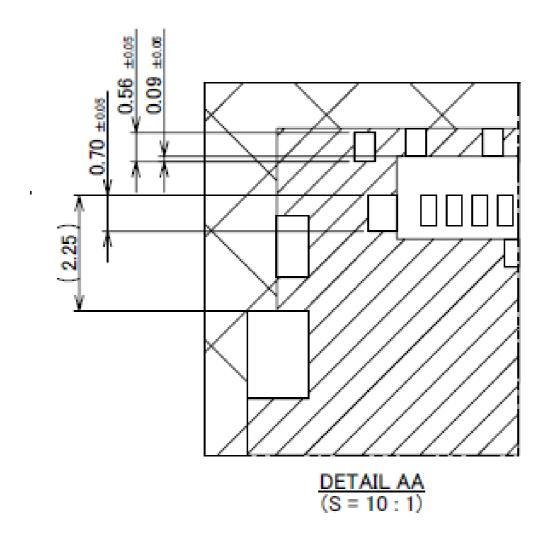


Receptacle Assembly





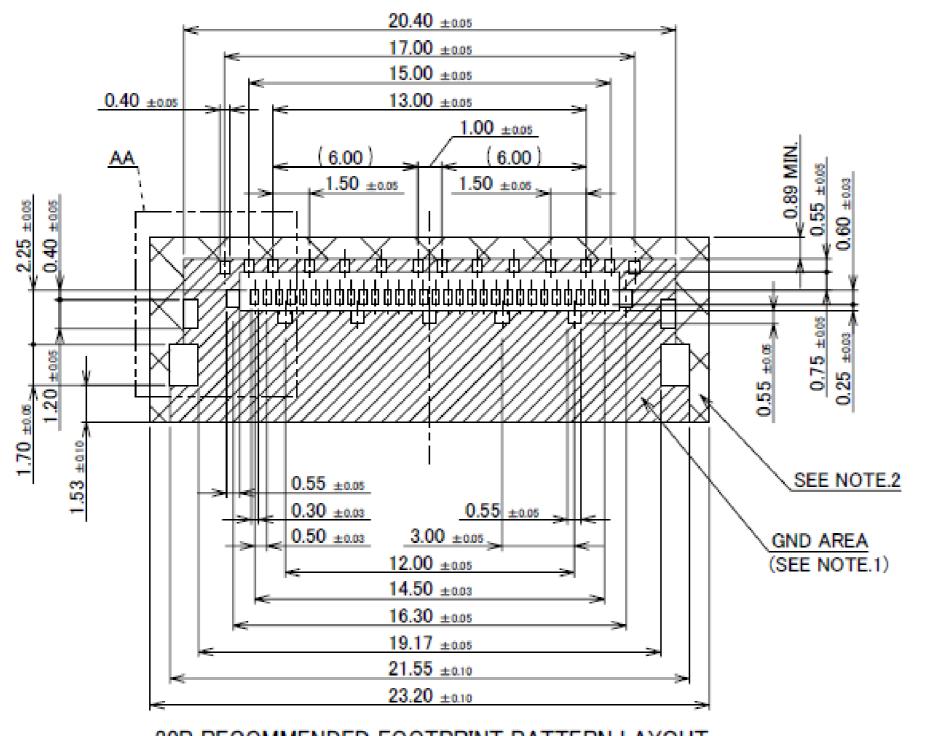
20P RECOMMENDED METAL MASK LAYOUT METAL MASK THICKNESS: t=0.12mm

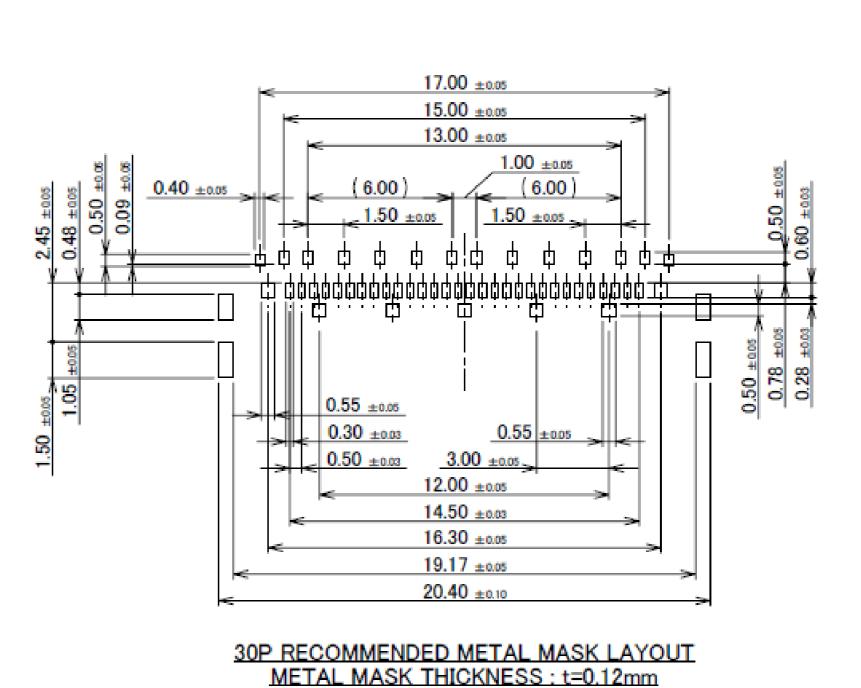


NOTES.

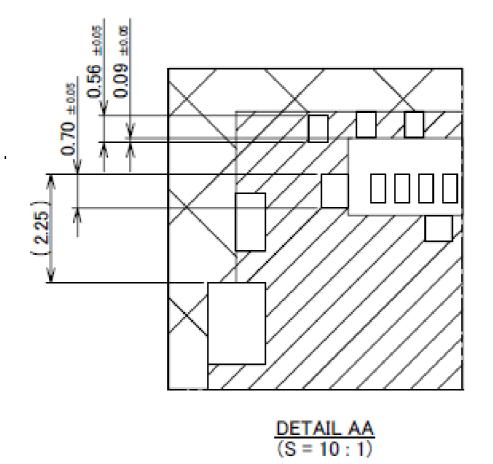
- SOLDER RESIST MUST BE APPLIED TO THIS AREA.
 DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

Rev.10





30P RECOMMENDED FOOTPRINT PATTERN LAYOUT

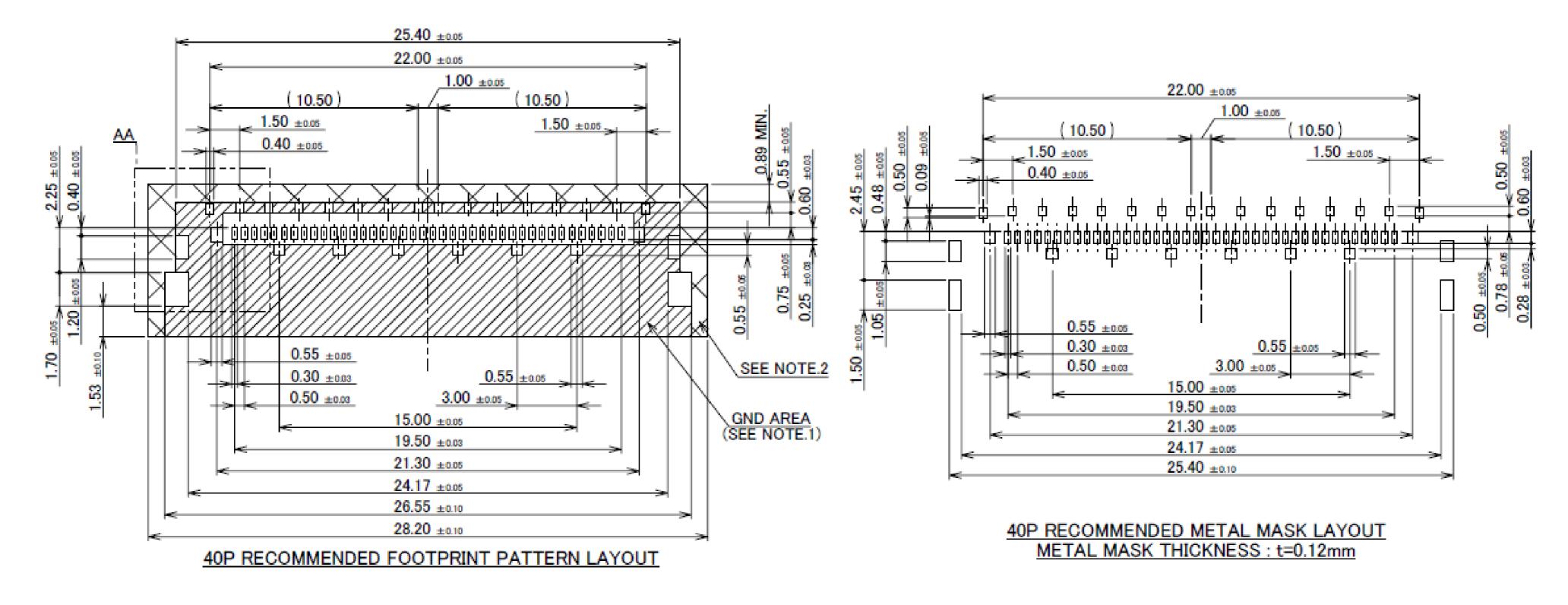


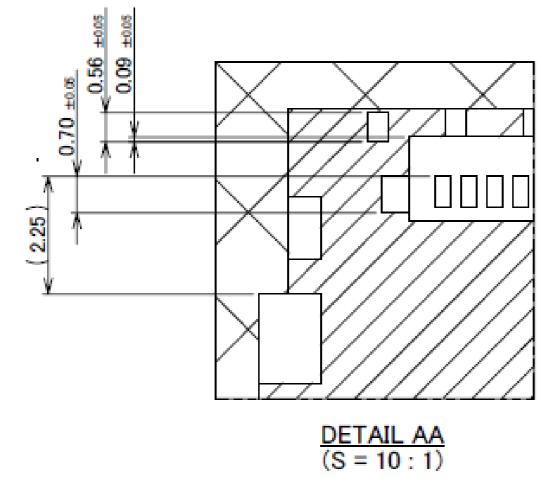
NOTES.

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



Receptacle Assembly

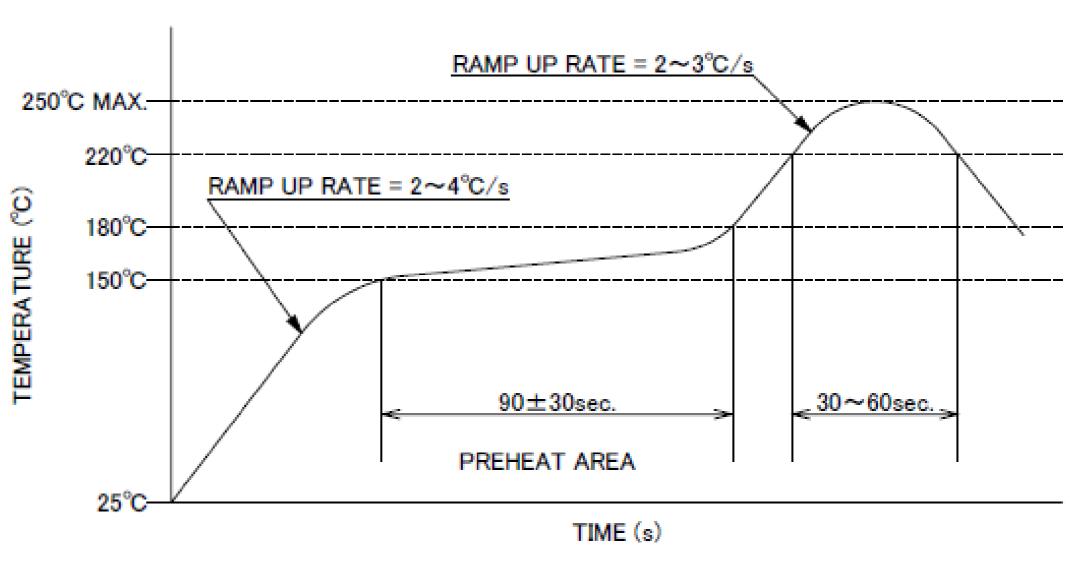




NOTES.

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

CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



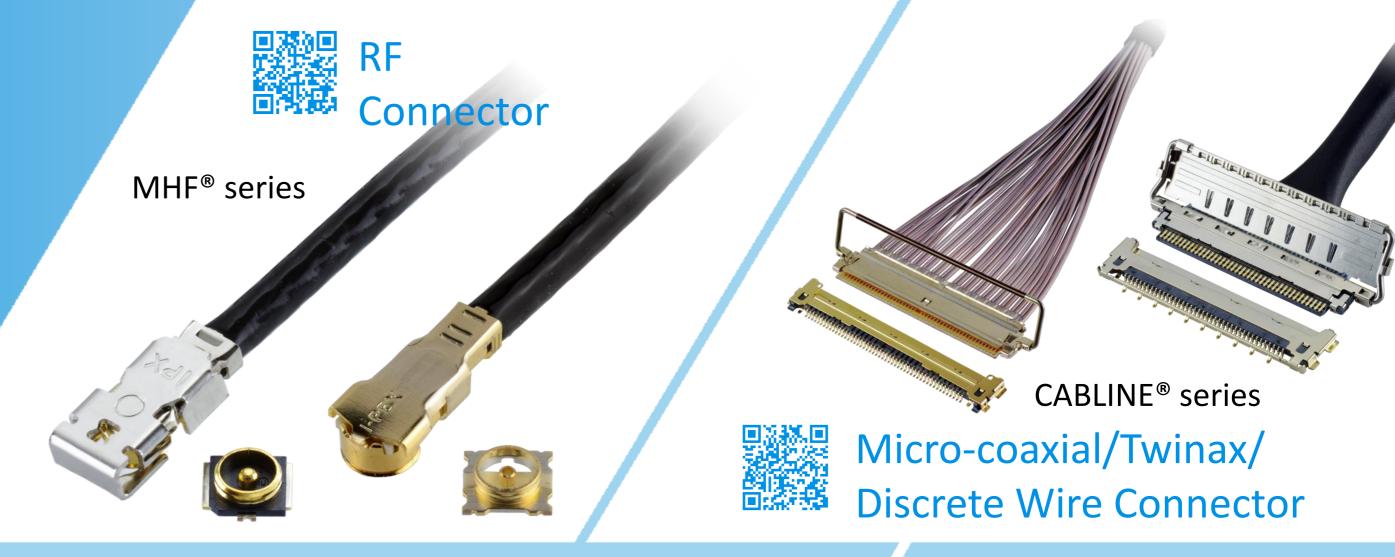
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

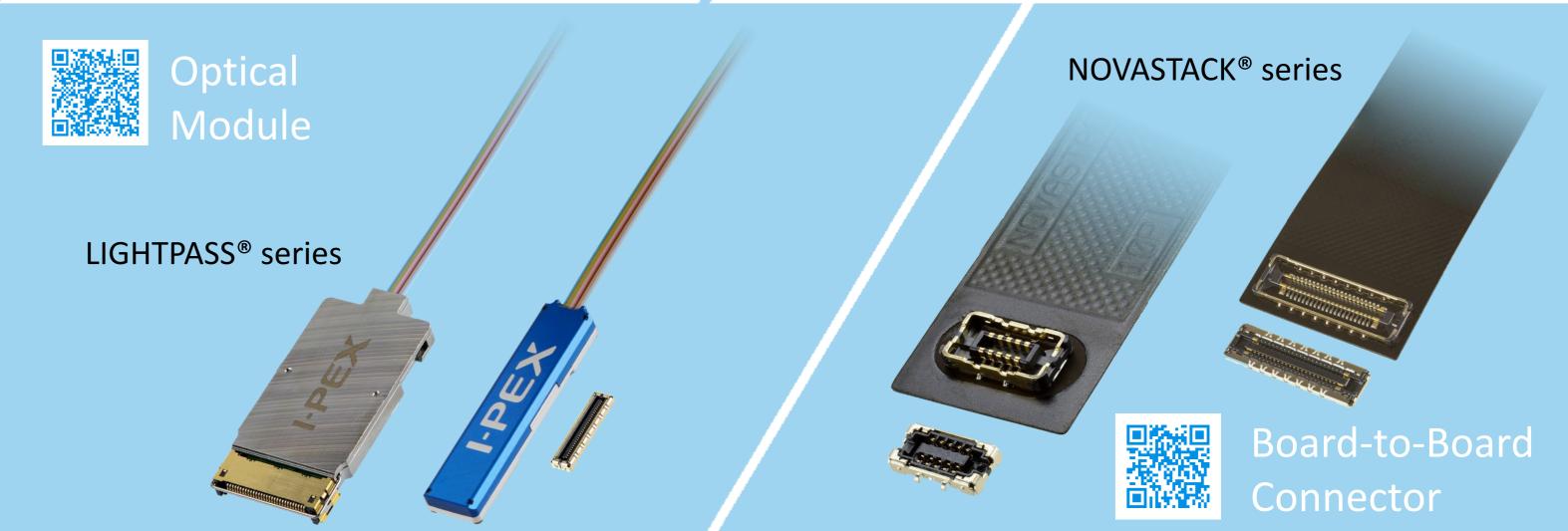


ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL: 60mohm MAX. / AFTER TEST: ✓ 40mohm MAX.
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)	30P: 13.50N MAX. 40P: 18.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P: 1.44N MIN. 40P: 1.92N MIN.
PRODUCT SPECIFICATION	PRS-2430
TEST REPORT	TR-17086
PACKING STANDARD	PST-17134
INSTRUCTION MANUAL	HIM-17039
ASSEMBLY MANUAL	ASM-17010
APPEARANCE CRITERIA No.	QLS-A***

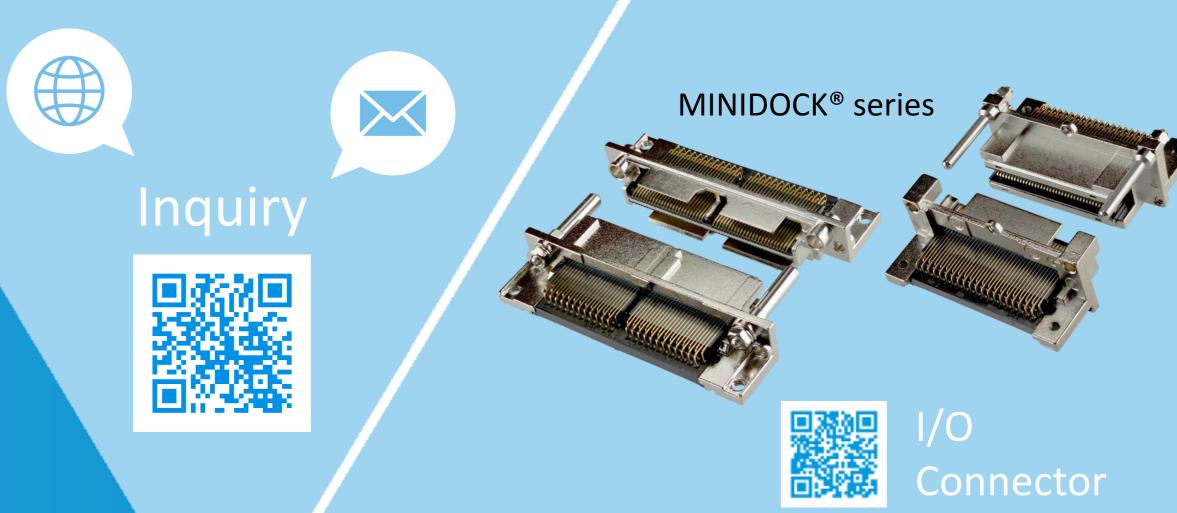


Custom Connectors Available









I-PEX, MHF, CABLINE, LIGHTPASS, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCKS and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents, Please be sure to read and understand the latest "Precautions for Use" and "Instruction" Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

www.i-pex.com

