CABLINE®-CAF

Mechanical lock with shielding and multi-point ground, 0.4 mm pitch, Horizontal mating type FPC plug connector

	Product Specifications:						
	Mating	g type	Horizontal				
	Board Pit	ch (mm)	0.4				
	Wiping Ler	igth (mm)	-				
		Height	1.0 +/- 0.1				
	Mated size (mm)	Width	Formula: 5.75 + (0.4 x ? p)				
	(111111)	Depth	6.06				
	Pin Counts	Range	Up to 60				
		Available	40, 60				

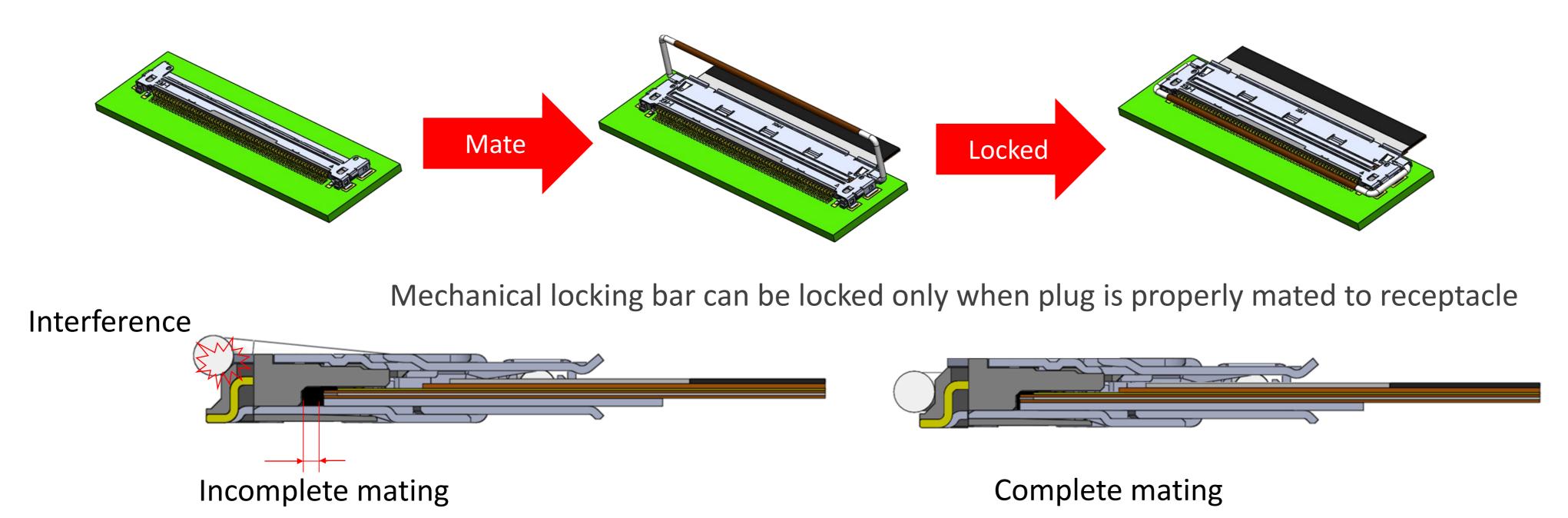
Applicable FPC				
FPC Type	Shielded/Non-shielded FPC			
FPC Pitch (mm)	0.4			
FPC Contact Point	Тор			
EDC Thisley and (mans)	Contact Area: 0.26 \pm 0.02			
FPC Thickness (mm)	Ground Area: 0.40 \pm 0.05			

Applicable Standards (Reference Only):

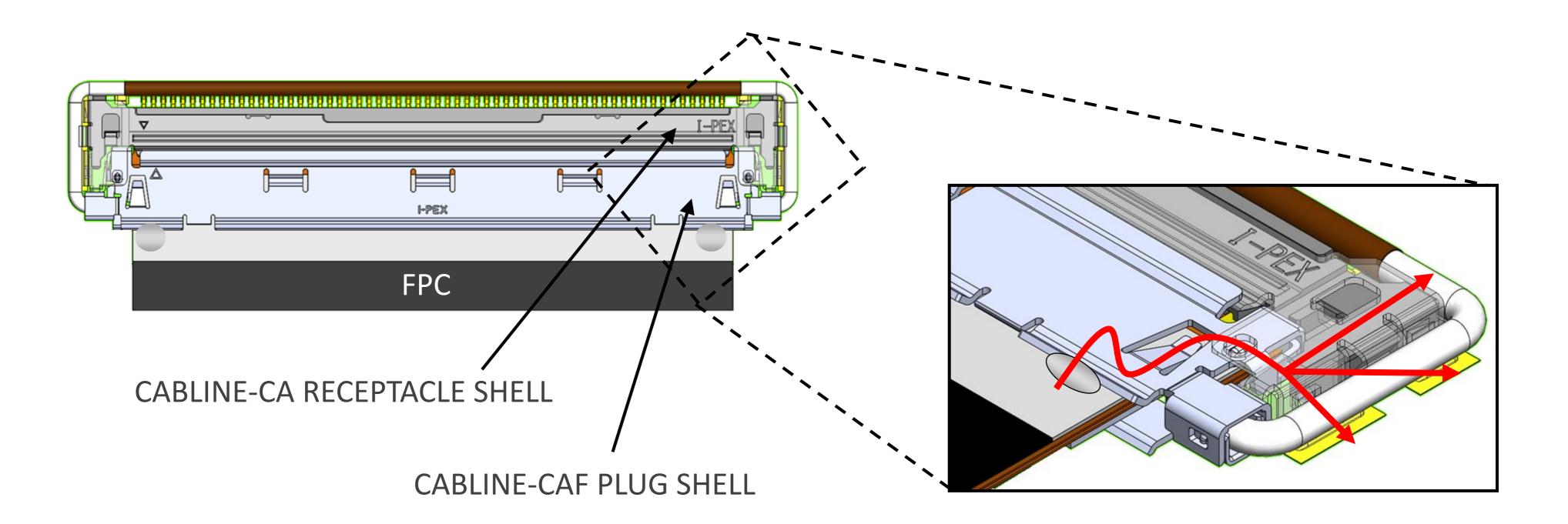
PCIe® Gen 4 (16 GT/s/Lane), USB3.2 Gen2 (10 Gbps/Lane)
eDP HBR 3 (8.1 Gbps/Lane), USB3.2 Gen1(5 Gbps/Lane)



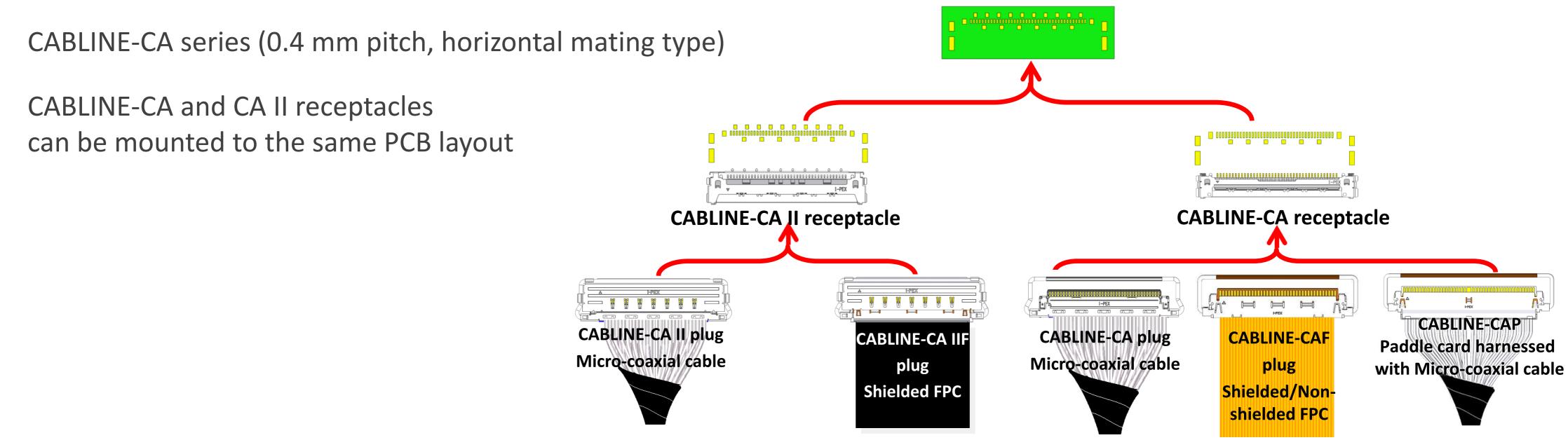
Mechanical Locking Bar Prevents Incomplete Mating and Back-out/Unmating



EMI Shielding and Multi-point Ground Design



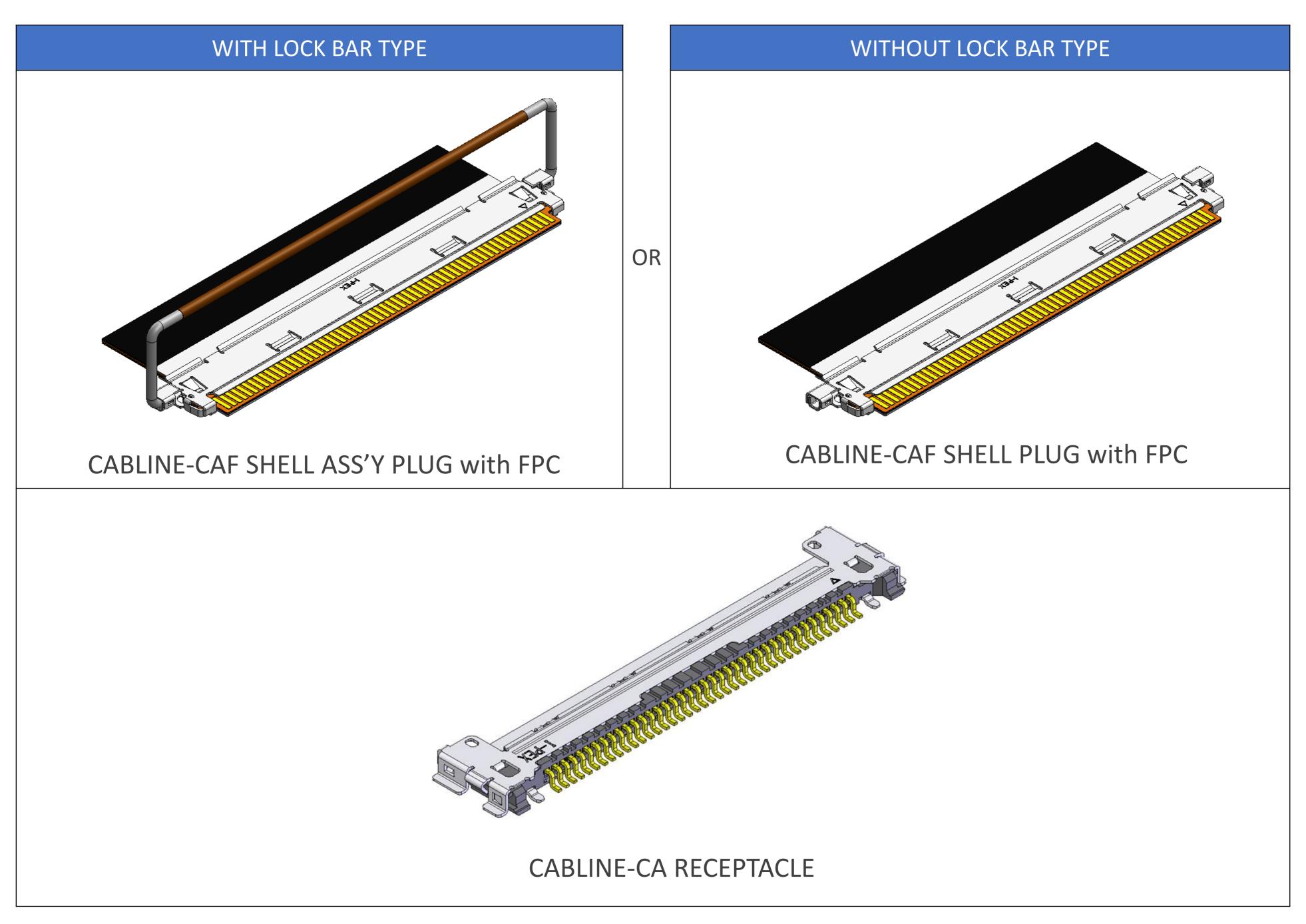
Multiple Connector Options with CABLINE®-CA Series





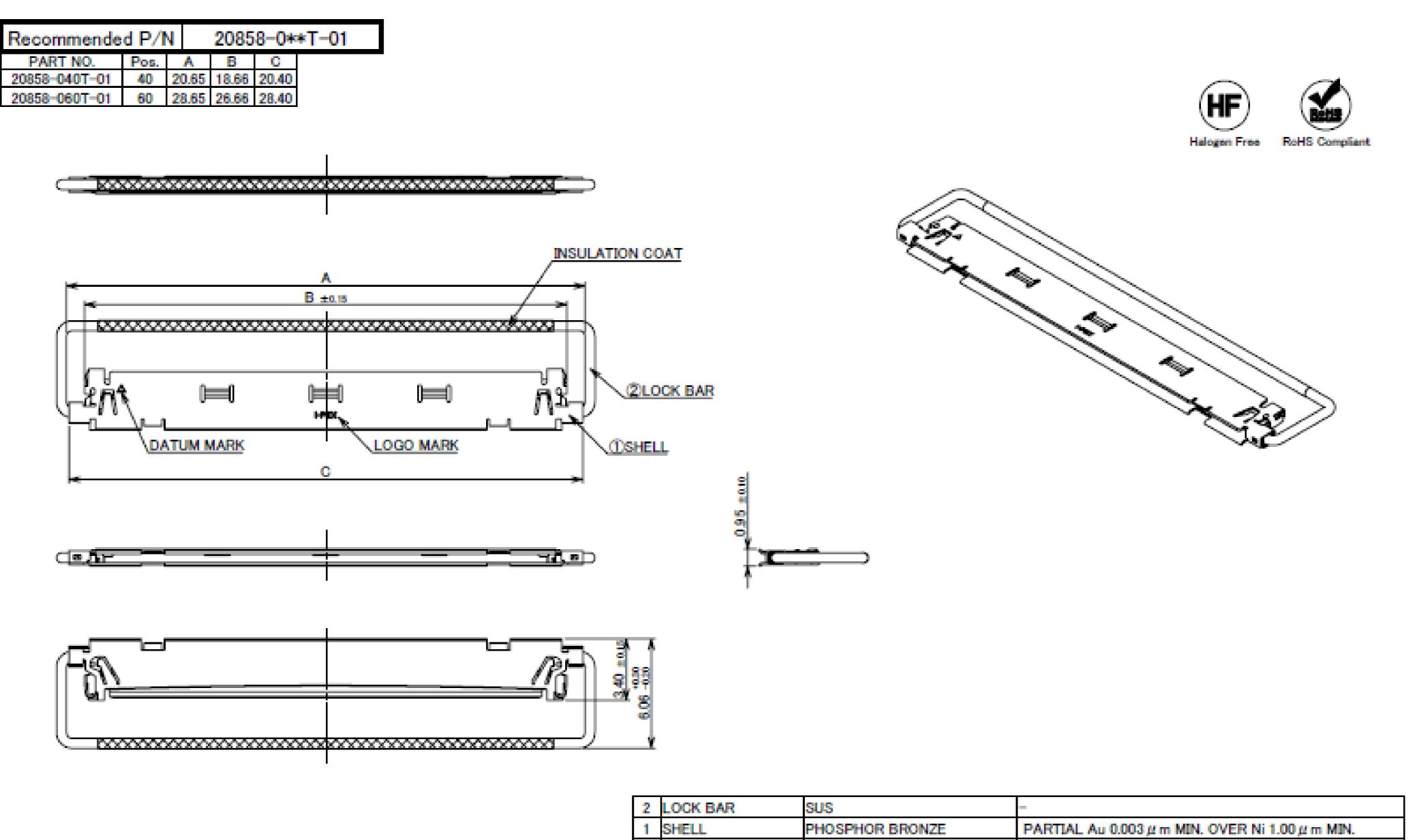
Component Parts Details

Component Parts





Shell Assembly

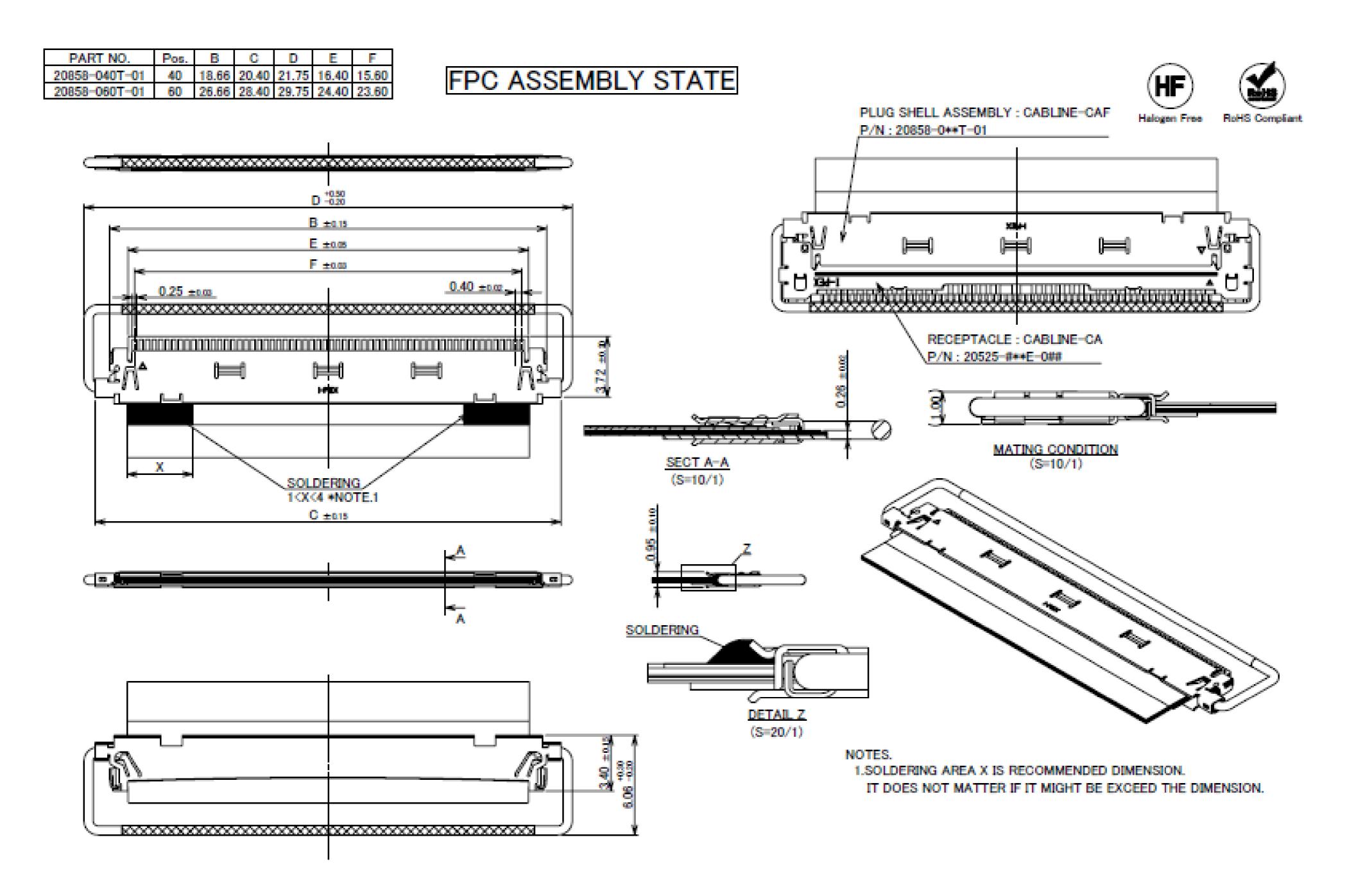


DISCRIPTION

MATERIAL

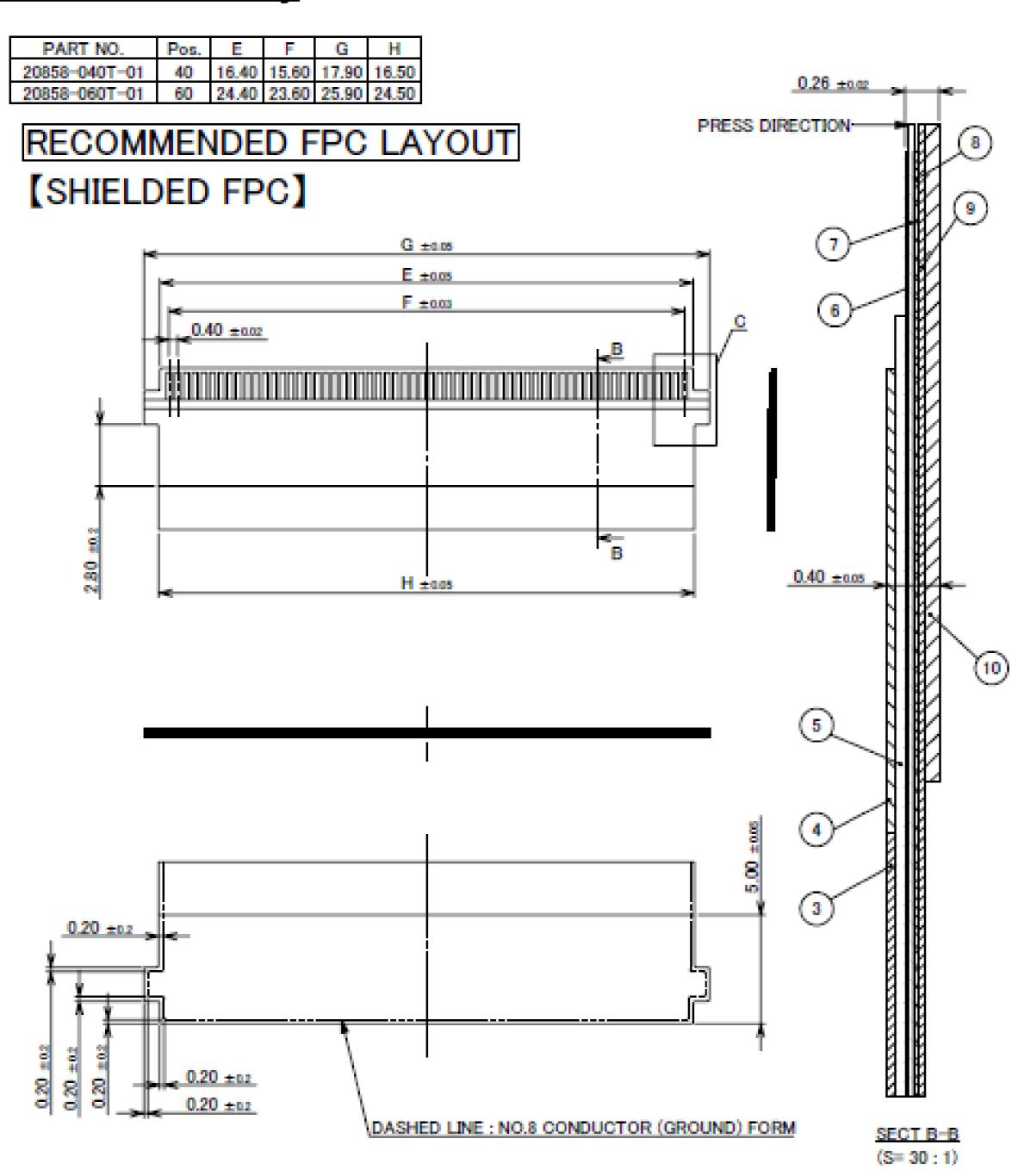
Rev.8

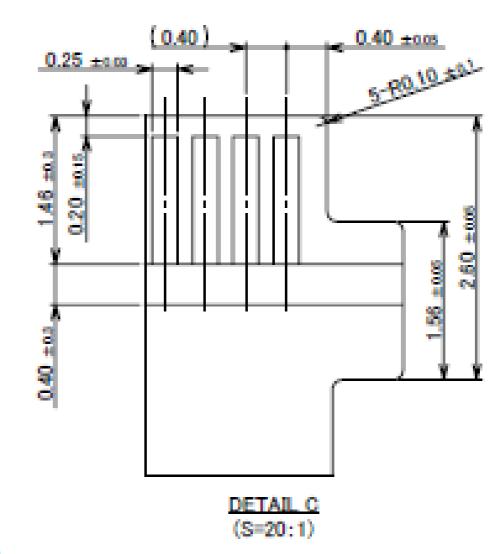
FINISH, REMARKS





Shell Assembly





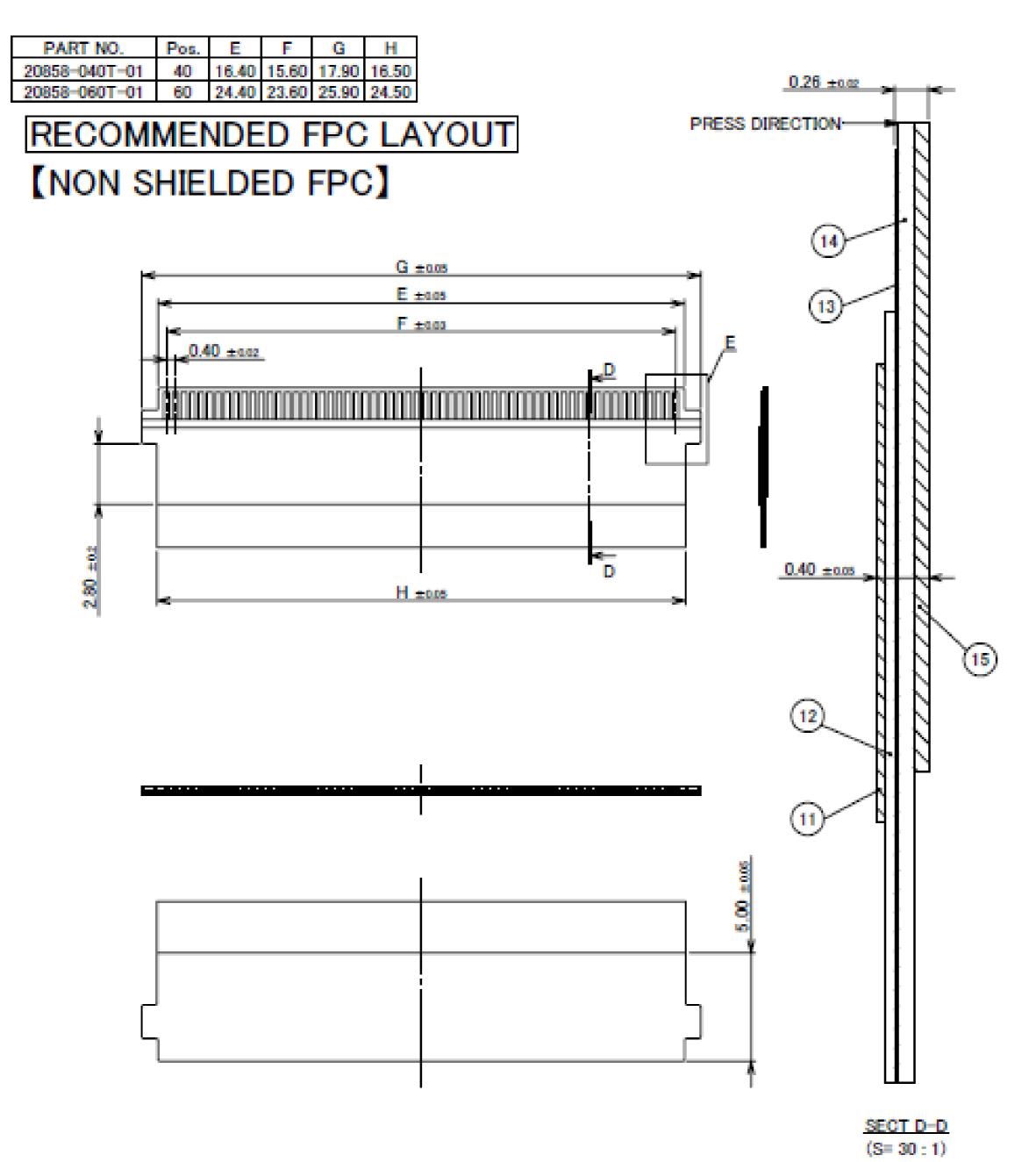
NOTES.

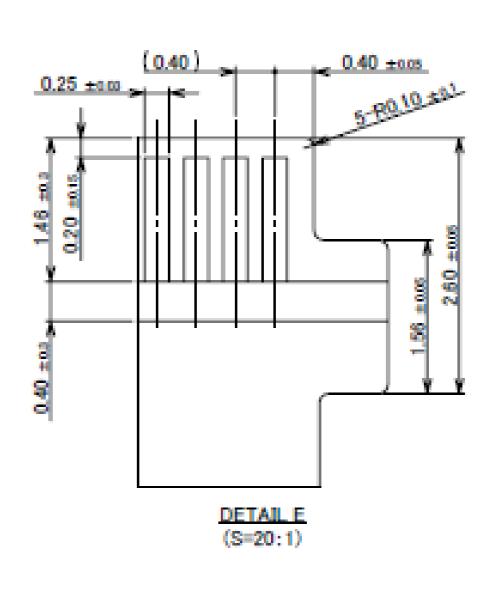
- 1. ADHESIVE SHOULD USE THERMOSETTING.
- 2. NO.3: SHIELD FILM AND NO.4, NO.8: CONDUCTOR (GROUND) ARE
- CARRYING OUT THE ELECTRICAL CONNECTION.

 3 NO.4 CONDUCTOR (GROUND) AND NO.8 CONDUCTOR
- NO.4: CONDUCTOR (GROUND) AND NO.8: CONDUCTOR (GROUND) ARE CARRYING OUT THE ELECTRICAL CONNECTION.
- 4. NO.3 : SHIELD FILM AND NO.6 : CONDUCTOR (SIGNAL) ARE
- NOT CONTACTING.
- NO.4, NO.8: CONDUCTOR (GROUND) AND NO.6: CONDUCTOR (SIGNAL) ARE NOT CONTACTING.

3	SHIELD FILM	-	-
4	CONDUCTOR (GROUND)	Cu	Ni, Au
5	INSULATOR	-	_
6	CONDUCTOR (SIGNAL)	Cu	Ni, Au
7	INSULATOR	-	-
8	CONDUCTOR (GROUND)	Cu	Ni
9	INSULATOR	-	-
10	REINFORCING TAPE	-	-
No.	DESCRIPTION	MATERIAL	PLATING

Rev.8





NOTES.

- 1. ADHESIVE SHOULD USE THERMOSETTING.
- 2. NO.11: CONDUCTOR (GROUND) AND NO.1: SHELL ARE CARRYING OUT THE ELECTRICAL CONNECTION BY SOLDERING.
- NO.11: CONDUCTOR (GROUND) AND NO.13: CONDUCTOR (SIGNAL)
 ARE NOT CONTACTING.

11	CONDUCTOR (GROUND)	Cu	Ni, Au
12	INSULATOR	-	-
13	CONDUCTOR (SIGNAL)	Cu	Ni, Au
14	INSULATOR	_	_
15	REINFORCING TAPE	-	-
Nia	DESCRIPTION	MATERIAL	DI ATINO

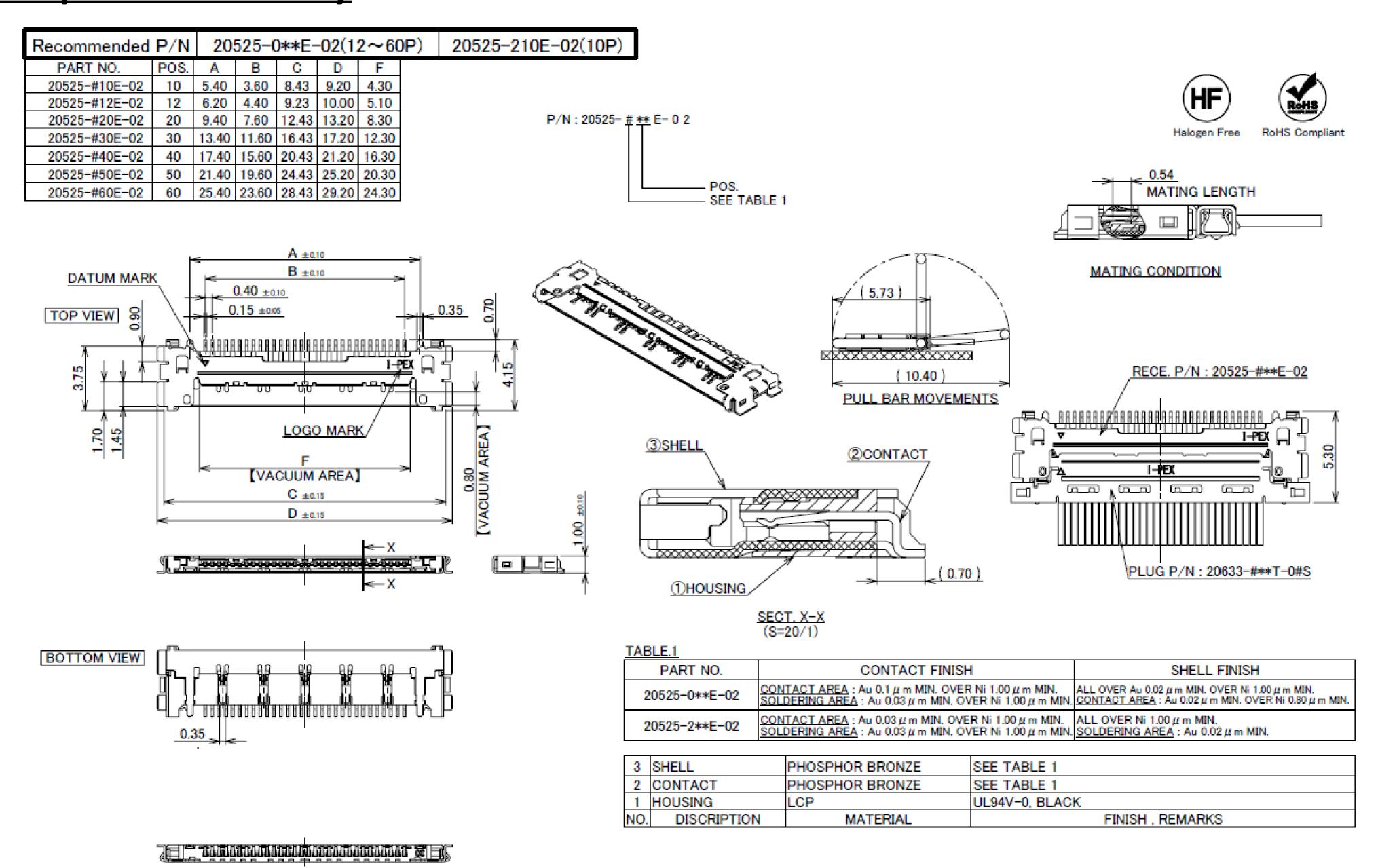


Shell Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.5A AC/DC (PER CONTACT) AVAILABLE UP TO 14PIN 0.3A AC/DC (PER CONTACT) AVAILABLE UP TO ALL 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)	40P: 11.07N MAX. 60P: 16.61N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	40P: 1.44N MIN. 60P: 2.16N MIN.
PRODUCT SPECIFICATION	PRS-2465
TEST REPORT	TR-18016
PACKING STANDARD	PST-17138
INSTRUCTION MANUAL	HIM-18016
ASSEMBLY MANUAL	ASM-18005
APPEARANCE CRITERIA No.	QLS-A***

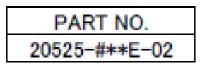
Rev.8

Receptacle Assembly

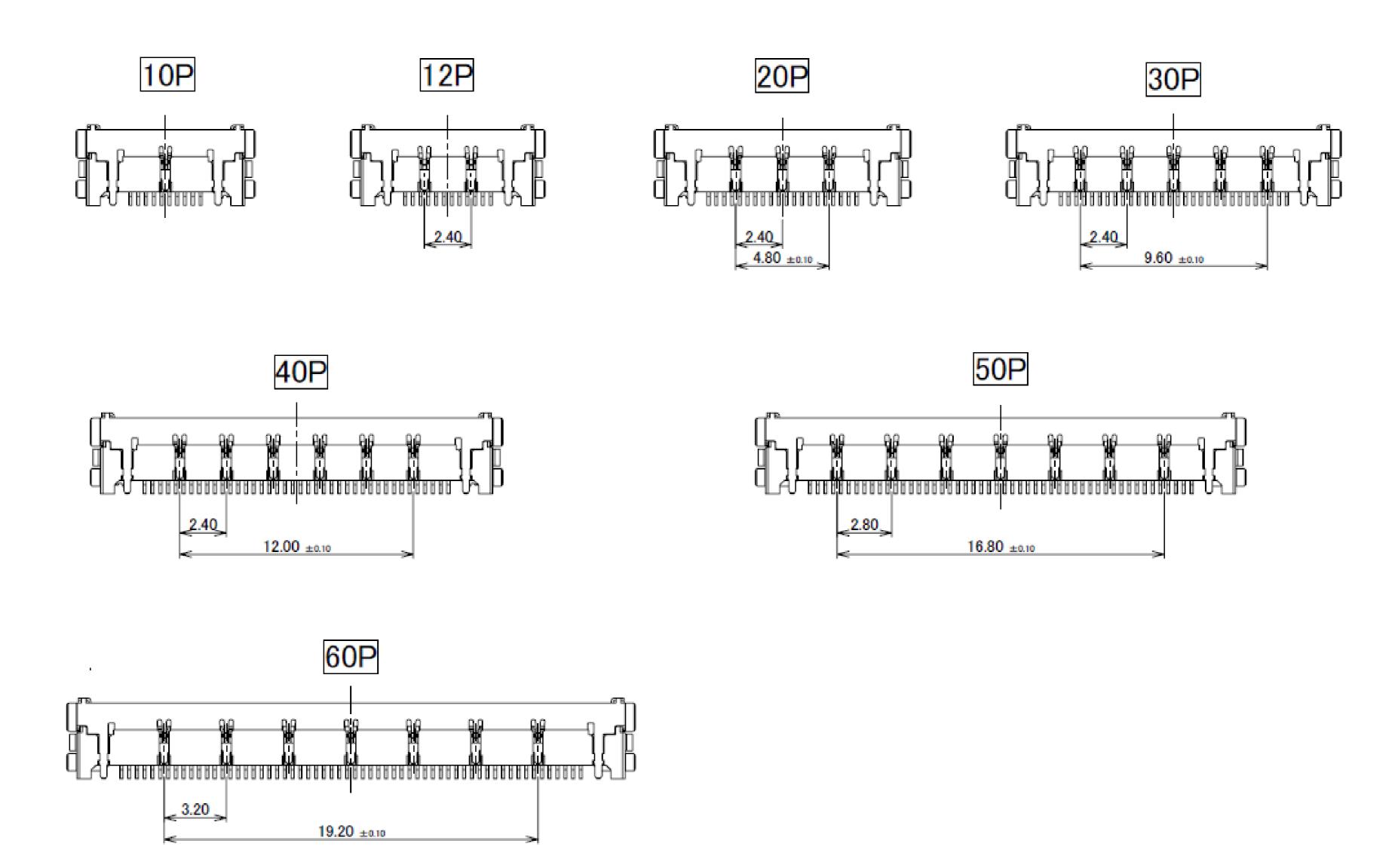


I-PEX

Receptacle Assembly



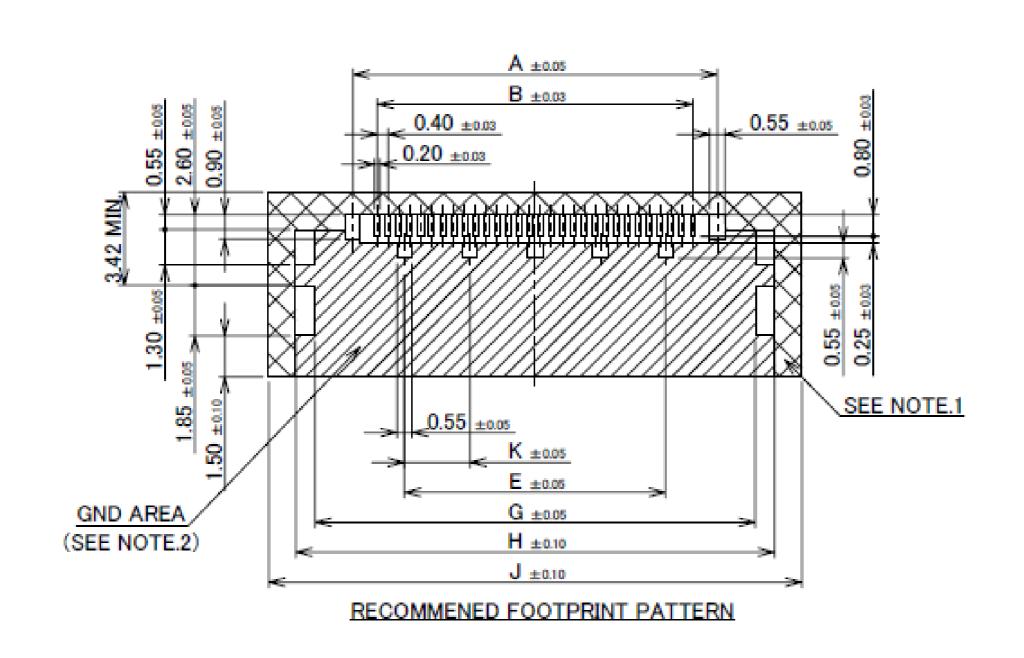
BOTTOM VIEW

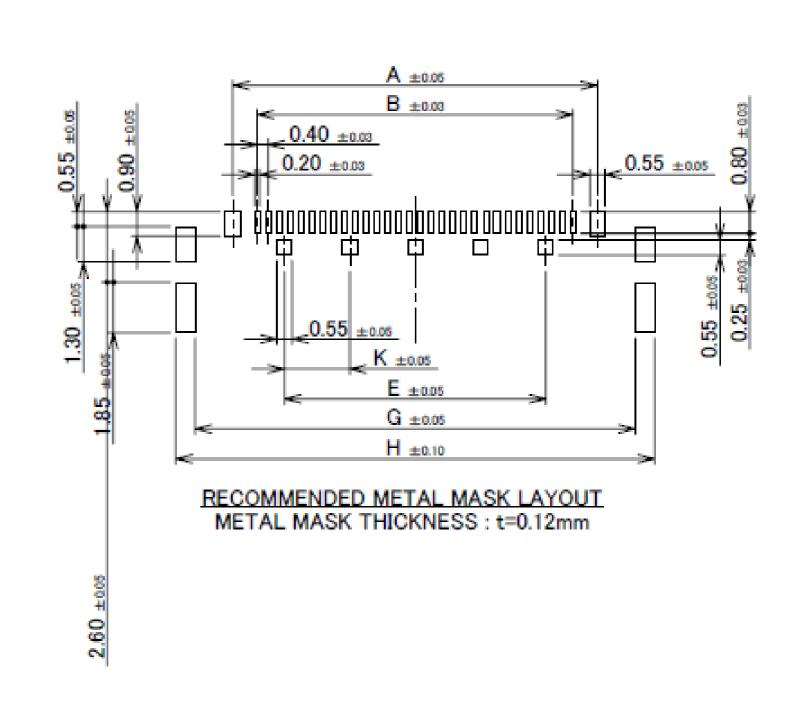


Rev.28

Receptacle Assembly

PART NO.	POS.	Α	В	E	G	Η	J	K
20525-#10E-02	10	5.40	3.60	_	8.18	9.60	11.60	ı
20525-#12E-02	12	6.20	4.40	2.40	8.98	10.40	12.40	-
20525-#20E-02	20	9.40	7.60	4.80	12.18	13.60	15.60	2.40
20525-#30E-02	30	13.40	11.60	9.60	16.18	17.60	19.60	2.40
20525-#40E-02	40	17.40	15.60	12.00	20.18	21.60	23.60	2.40
20525-#50E-02	50	21.40	19.60	16.80	24.18	25.60	27.60	2.80
20525-#60E-02	60	25.40	23.60	19.20	28.18	29.60	31.60	3.20





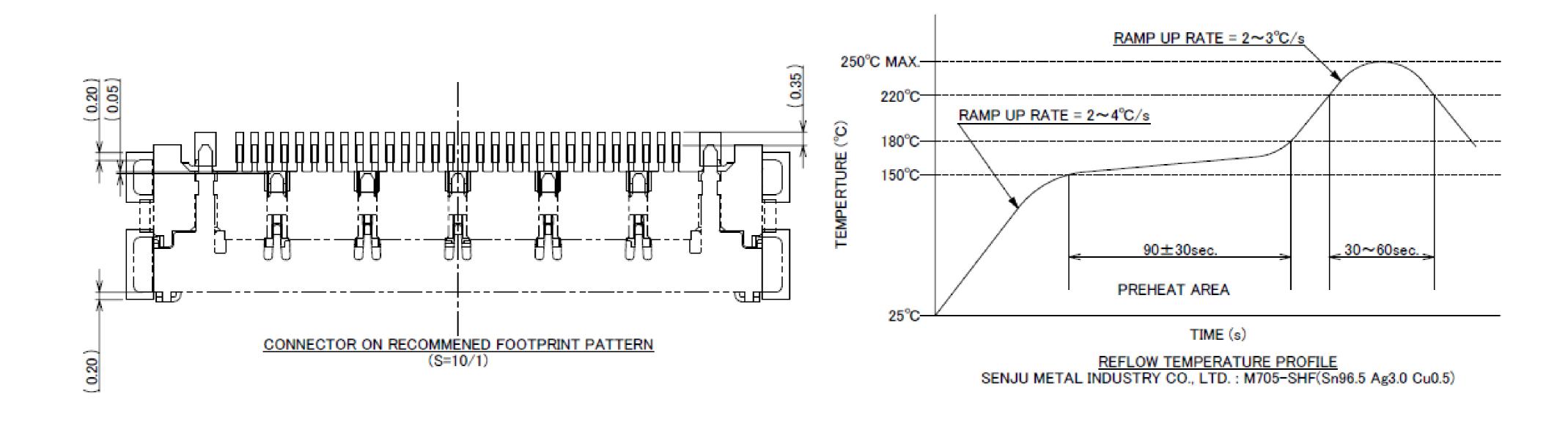
NOTES.

1. IN CASE OF PLUG WITH PULL BAR(20633-#**T-01S), DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

I-PEX

Receptacle Assembly



Rev.28

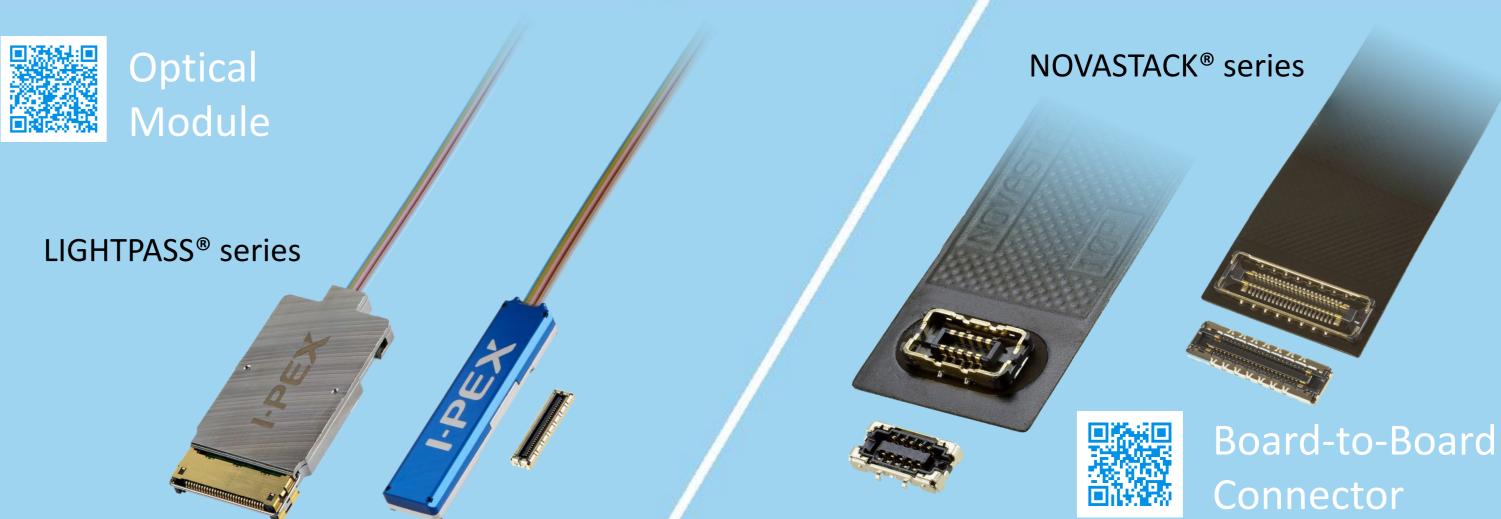
ITEMS	SPECIFICATION				
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 44, 42, 40, 38, 36 DISCRETE WIRE: AWG# 36, 34 TWINAX CABLE: AWG# 40, 42				
RATING VOLTAGE	100V AC (PER CONTACT PIN)				
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 50 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 40 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 14 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 4 CONTACTS **TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.				
OPERATING TEMPERATURE	233~358K (-40°C~85°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)	10P: 7.80N MAX. 40P: 19.40N MAX. 12P: 8.20N MAX. 50P: 24.25N MAX. 20P: 9.70N MAX. 60P: 29.10N MAX. 30P: 14.55N MAX.				
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	10P: 1.00N MIN. 40P: 4.00N MIN. 12P: 1.20N MIN. 50P: 5.00N MIN. 20P: 2.00N MIN. 60P: 6.00N MIN. 30P: 3.00N MIN.				
CABLE RETENTION FORCE	10P: 4.90N MIN. 40P: 19.60N MIN. 12P: 5.88N MIN. 50P: 24.50N MIN. 20P: 9.80N MIN. 60P: 29.40N MIN. 30P: 14.70N MIN.				
COPLANARITY	0.10 MAX.				
PRODUCT SPECIFICATION	PRS-1968				
TEST REPORT	TR-14122 (20525-0**E-0#) / TR-16023 (20525-2**E-0#)				
PACKING STANDARD	300-824				
INSTRUCTION MANUAL	HIM-09008				
APPEARANCE CRITERIA No.	QLS-A***				



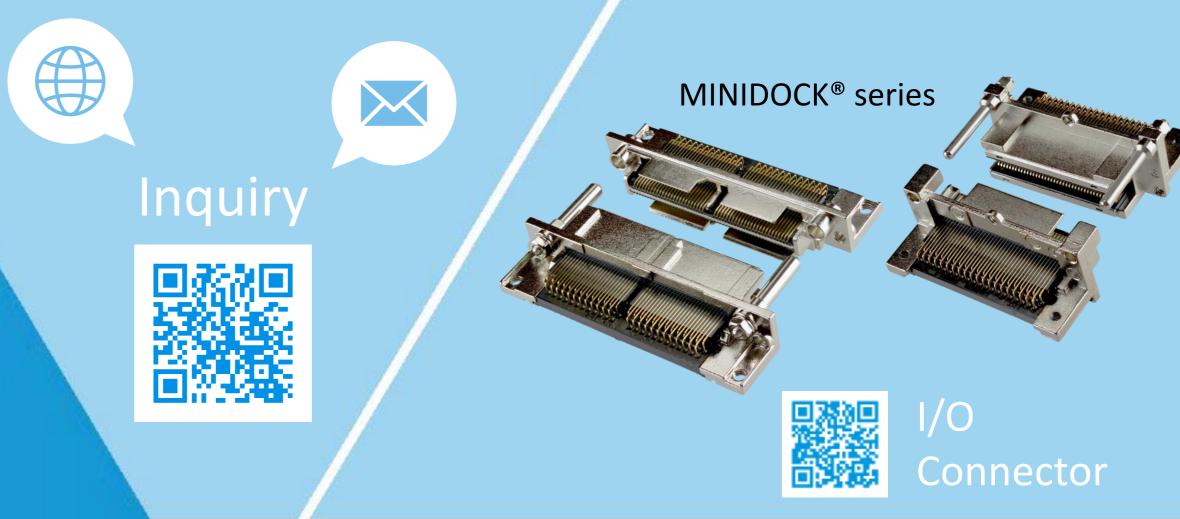
Custom Products Available











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



© I-PEX Inc. 2024 All rights reserved