# **CABLINE®-UY**

Low mating height (Height = 0.76 mm), Narrow pitch (0.35 mm pitch), Right angle vertical mating type micro-coaxial cable and FPC connector

	Todact Specifications.			
	Mating	type	Right angle vertical	
	Board Pitch (mm)		0.35	
	Wiping Length (mm)		0.1	
ı	Mated size (mm)	Height	0.76 +/- 0.06	
		Width Depth	Formula: Cable plug: 2.15 + (0.35 * ?p)	
			Formula: SMT plug: 2.02 + (0.35 * ?p)	
			Cable plug : 3.10	
			SMT plug: 2.42	
	Pin Counts	Range	Up to 25p	
		Available	Cable plug : 5, 10p	
			SMT plug: 5p	

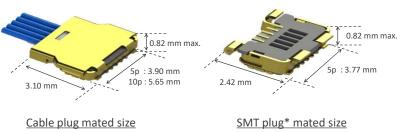
#### Applicable Standards (Reference Only):

PCIe Gen 5 (32 GT/s) Thunderbolt 4 (20 Gbps/lane) eDP HBR 3 (8.1 Gbps)



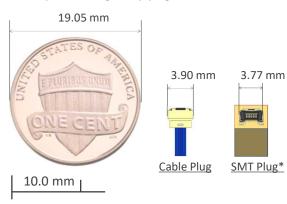
### Small & low height design, suitable for narrow spaces

Connector mated size

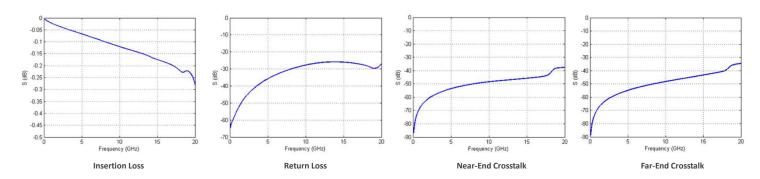


<sup>\*</sup>CABLINE-UY SMT plug is sold and supplied by the I-PEX licensed manufacturer.

### I Size comparison image of 5p plug with a one-cent coin



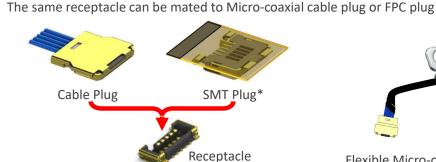
### **Excellent differential SI performance (PCIe Gen 5: 32 GT/s)**



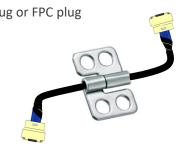
Simulation Software: ANSYS Electronics Desktop 2021 R1 Simulation Model : Cable plug mated to a receptacle Frequency Range : 0.1 – 20 GHz

Data Format: Touchstone Data (.s8p) Reference Impedance: 90 Ohms differential Pin Assignment GSSGSSG

### 2-way plug options (Cable plug and FPC SMT plug\*)



\*CABLINE-UY SMT plug is sold and supplied by the I-PEX licensed manufacturer.



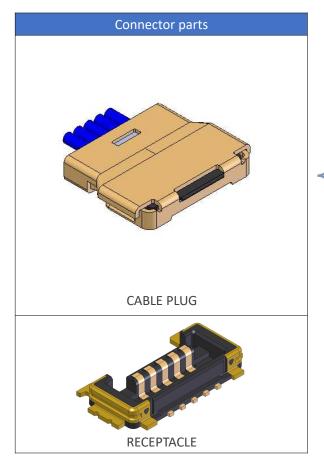
Flexible Micro-coaxial cable harness is suitable for small applications with a hinge design.

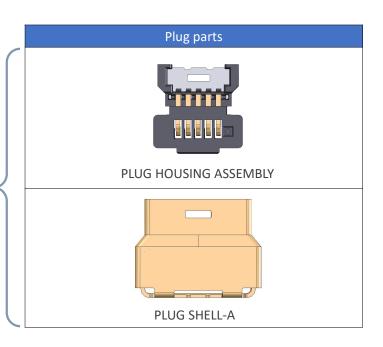


Applicable Cable Size: 0.35 Maximum O.D. (mm) 45 ohm: #40 or smaller Micro-Coaxial for Signal (AWG) 50 ohm: #42 or smaller Twin Coaxial (AWG) Discrete (AWG) #36 or smaller

# **Component Parts Details**

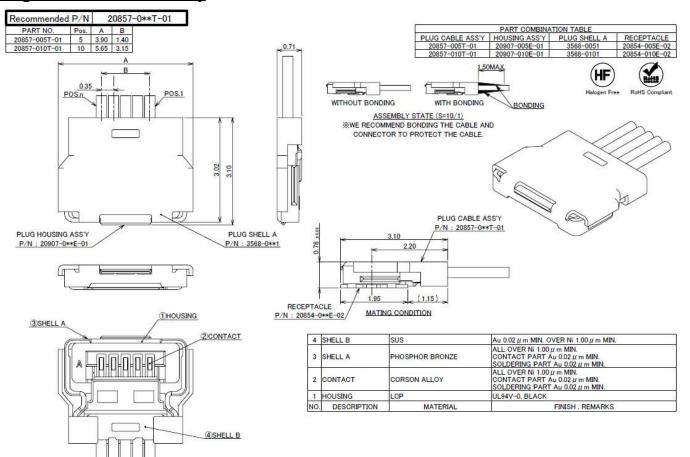
### **Component Parts**





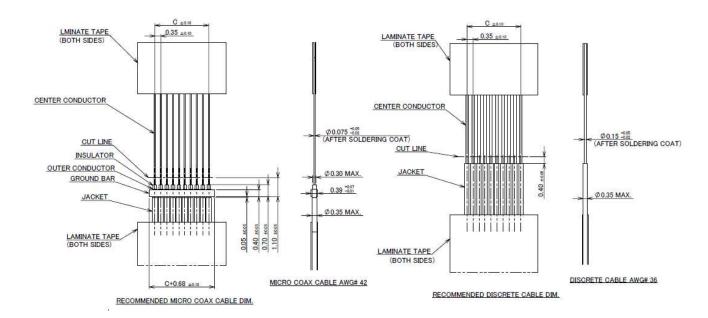


### **Plug for Cable Assembly**



Rev.4

PART NO.	Pos.	С
20857-005T-01	5	1.40
20857-010T-01	10	3.15



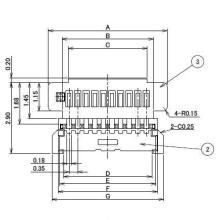


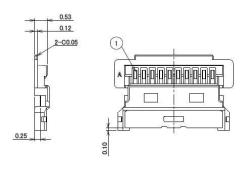
## **Plug Housing Assembly**

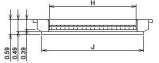
Recommended P/N		P/N 20907-0**E-01			)1					
PART NO.	Pos.	Α	В	C	D	E	F	G	н	J
20907-005E-01	5	3.10	1.98	1.47	1.86	2.18	2.30	2.80	1.80	2.40
20907-010E-01	10	4.85	3.73	3.22	3.61	3.93	4.05	4.55	3.55	4.15







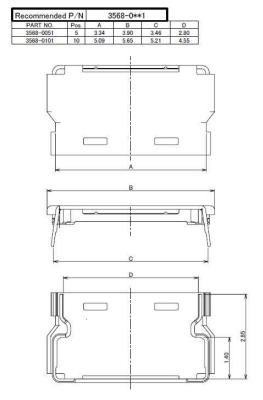


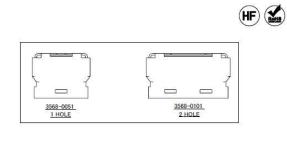


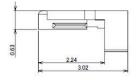
NO	. DESCRIPTION	MATERIAL	FINISH , REMARKS
1	CONTACT	CORSON ALLOY	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.02 μ m MIN. SOLDERING PART Au 0.02 μ m MIN.
2	SHELL B	SUS	Au 0.02 μ m MIN. OVER Ni 1.00 μ m MIN.
3	HOUSING	LCP	UL94V-0, BLACK

Rev.1

### Plug Shell-A





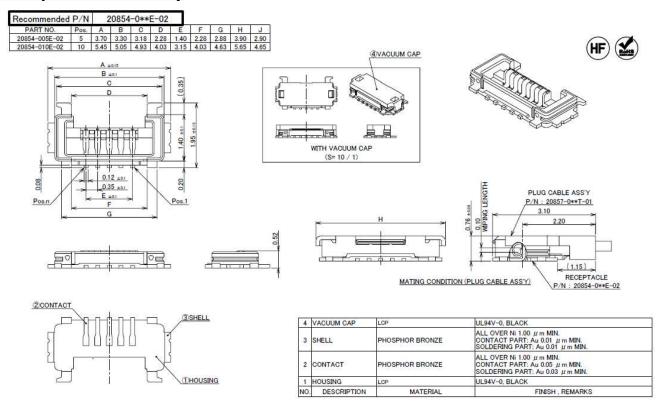


1	SHELL A	PHOSPHOR BRONZE	ALL OVER NI 1.00 µ m MIN. CONTACT PART Au 0.02 µ m MIN. SOLDERING PART Au 0.02 µ m MIN.	
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS	

Rev.2

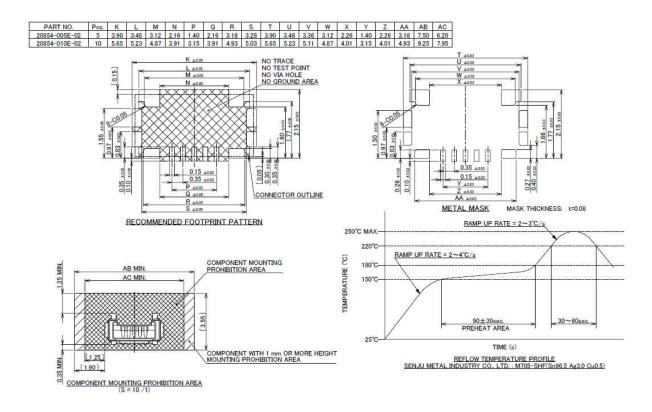


### **Receptacle Assembly**



NOTE.
1. COPLANARITY: 0.08mm MAX.

Rev.5



NOTE.

2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

I-PEX

ITEMS	SPECIFICATION			
APPLICABLE CABLE	MICRO COAX : AWG# 42 DISCRETE : AWG# 36			
RATING VOLTAGE	60V AC (PER CONTACT PIN)			
RATING AMPERAGE (FOR CONTACT)	0.35 AC/DC[AWG# 42] 0.5 AC/DC[AWG# 36]			
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)			
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)			
CONTACT RESISTANCE	INITIAL: 700mohm MAX.(AWG# 42) / AFTER TEST: ∠R 40mohm MAX. 275mohm MAX.(AWG# 36)			
GROUND SHELL RESISTANCE	INITIAL: 60mohm MAX. / AFTER TEST: AR 40mohm MAX.			
INSULATION RESISTANCE	INITIAL: 500Mohm MIN. / AFTER TEST: 100Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min			
DURABILITY	30 CYCLES			
MATING FORCE (INITIAL / AFTER TEST)	5P: INITIAL: 30N MAX. / AFTER TEST: 30N MAX. 10P: INITIAL: 30N MAX. / AFTER TEST: 30N MAX.			
UNMATING FORCE (INITIAL / AFTER TEST)	5P : INITIAL: 5N MIN. / AFTER TEST: 3N MIN. 10P : INITIAL: 5N MIN. / AFTER TEST: 3N MIN.			
CABLE RETENTION FORCE	5Pin : 2.45N MIN. 10Pin : 4.9N MIN.			
PRODUCT SPECIFICATION	PRS-2634			
TEST REPORT	TR-19084			
INSTRUCTION MANUAL	HIM-18037			
ASSEMBLY MANUAL	ASM-18002			
APPEARANCE CRITERIA No.	QLS-A***			

Rev.4





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