## **CABLINE®-CA**

高速数据传输(20+ Gbps/lane), 机械锁扣, 带屏蔽和多点接地设计, 0.4 mm 间距,水平对插款式的极细同轴线连接器

**Product Specifications:** 

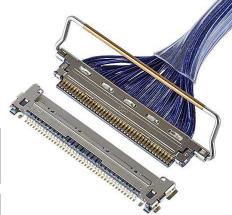
Matin	g type	Horizontal		
Board Pit	tch (mm)	0.4		
Wiping Le	ngth (mm)	0.54		
Mated size	Height	1.0 +/- 0.1		
	Width	Formula: 6.95 + (0.4*?p)		
(mm)	Depth	5.73		
Din Counts	Range	Up to 60		
Pin Counts	Available	10, 12, 20, 30, 40, 50, 60		

,	۱p	р	lic	at	ole	Ca	b	le	Siz	e:

Maximum O.D. (mm)	0.4
Micro-Coaxial	45 ohm: #38 or smaller
for Signal (AWG)	50 ohm: #40 or smaller
Twin Coaxial (AWG)	#40
Discrete (AWG)	#34 or smaller
	- L \

Applicable Standards (Reference Only):

Thunderbolt 3 (20 Gbps/lane), PCle Gen 4 (16 GT/s), USB 3.1 Gen 2 (10 Gbps), eDP HBR 3 (8.1 Gbps)



\*如您需要了解未列出或不在范围内的Pin数,请咨询我们。

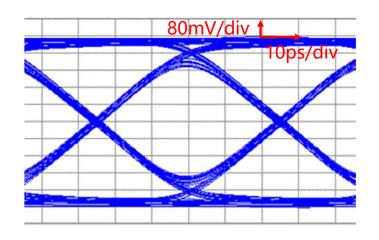
## ▶ 高速率传输, USB4 / Thunderbolt 3 (20+ Gbps/lane)应用的理想之选

Thunderbolt 3 (20 Gbps/lane)

眼图 (微分) 比特率: 20 Gbps

上升时间: 30ps (10-90%) 输入电压: 800mVp-p

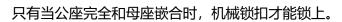
\*更多测试细节,请联系I-PEX 连接器。

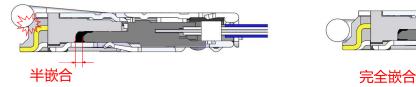


#### 机械锁扣防止连接器不完全嵌合及脱落/未嵌合



干涉

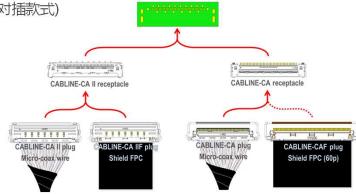




#### ▶ CABLINE®-CA 系列多款连接器可选

CABLINE-CA 系列 (0.4 mm 间距,水平对插款式)

CABLINE-CA 和 CA II 的母座可安 装在相同布局的PCB 上。

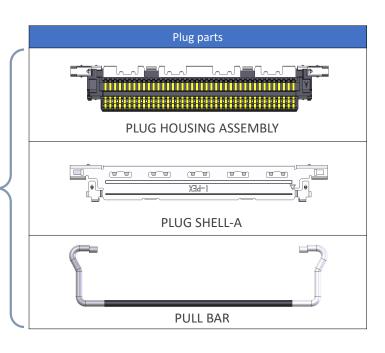




# **Component Parts Details**

## **Component Parts**



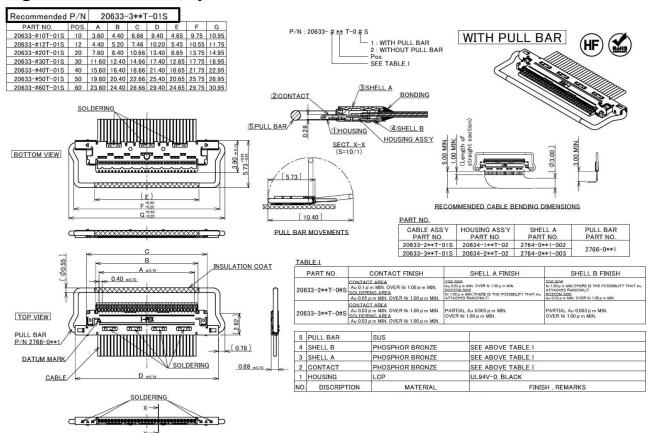




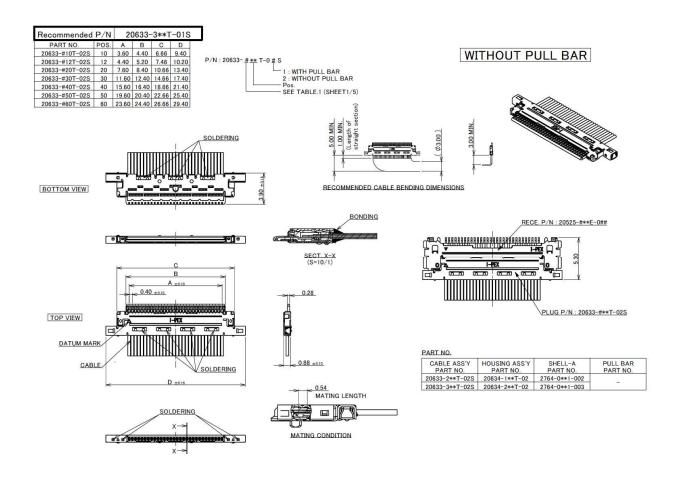




#### **Plug for Cable Assembly**

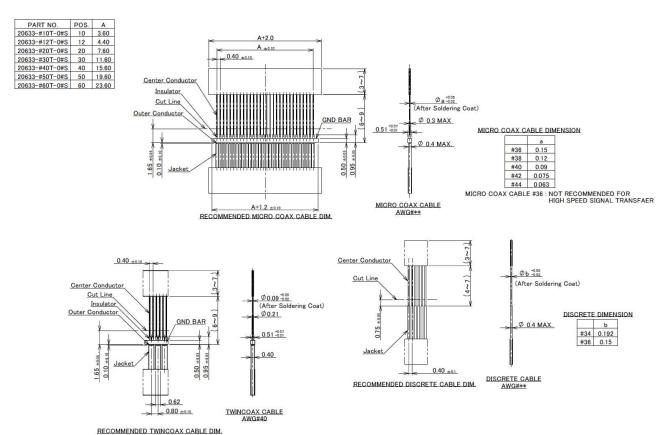


Rev 8

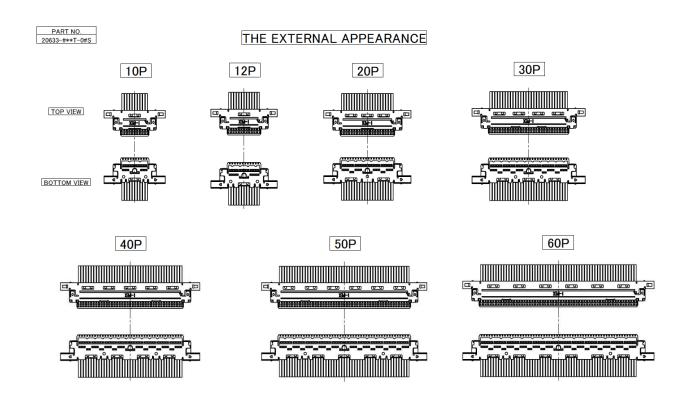




#### **Plug for Cable Assembly**



Rev.8





#### **Plug Housing Assembly**

Recommended P	/N	20634	-2**	T-02										
PART NO. Po	os. A	В	C	D	E	F	G	Н	J	K				
20634-#10T-02 1	0 5.1	10 4.65	4.30	3.60	4.40	6.66	9.40	3.40	-	-				
20634-#12T-02 1	12 5.9	0 5.45	5.10	4.40				4.10	-	- "				(HF) ( <b>***</b> )
20634-#20T-02 2	20 9.1	0 8.65	8.30	7.60	8.40	10.66 1	13.40	-	5.00	-		P/N: 20634-#*	<u>*</u> T-02	HOH3
20634-#30T-02 3	30 13.	10 12.65	12.30	11.60	12.40	14.66 1	17.40	4.00	8.00	4.00		11	POS.	
20634-#40T-02 4	10 17.	10 16.65	16.30	15.60	16.40	18.66 2	21.40	8.00 1	2.00	4.00		_	SEE TABLE.1	
20634-#50T-02 5	50 21.	10 20.65	20.30	19.60	20.40	22.66 2	25.40 1	2.00	6.00	4.00				
20634-#60T-02 6	0 25.	10 24.65	24.30	23.60	24.40	26.66 2	29.40	16.00 2	0.00	4.00				
BOTTOM VIEW S	0.1.6	35 - 1		H.	060		3880	2.85			0.00	.12 08 3)SHELL B		
Ĺ	×		G A B			*					SECT. X-X (S=15/1)			BLED WITH SHELL A(P/N 2764-0**1-00#) 766-0**1) AFTER SOLDERED THE CABLE, I 20633-#**T-0#S
	1		С			3						TABLE.1	÷	T
					<sub>&lt;</sub> X			_2	_ (	0.76		PART NO.	CONTACT FINISH	SHELL B FINISH
TOP VIEW		MANAGES AND STREET		J)-(	لحاما		3	->	9			20634-1**T-02	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN	TOP SIDE IN 1.00 $\mu$ m MIN.(THERE IS THE POSSIBILITY THAT Au ATTACHES RANDOMLY) BOTTOM SIDE AU 0.02 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
	5-				**************************************					.28		20634-2**T-02	CONTACT AREA Au 0.03 \( \mu\) m MIN. OVER Ni 1.00 \( \mu\) m MIN. SOLDERING AREA Au 0.03 \( \mu\) m MIN. OVER Ni 1.00 \( \mu\) m MIN.	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.

3 SHELL-B

2 CONTACT

1 HOUSING

DISCRIPTION

LCP

PHOSPHOR BRONZE

PHOSPHOR BRONZE

MATERIAL

SEE ABOVE TABLE.1

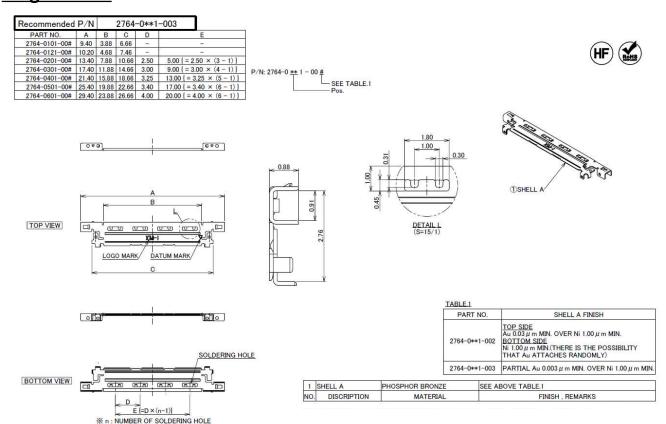
SEE ABOVE TABLE.1

FINISH , REMARKS

UL94V-0, BLACK

Rev.10

#### Plug Shell-A





#### **Plug Pull Bar**

Recommended P/N           PART NO.         A         B           2766-0101         8.65         9.85           2766-0201         12.65         10.65           2766-0201         12.65         13.85           2766-0301         16.65         17.85           2766-0401         20.65         21.85           2766-0501         24.65         25.85           2766-0601         28.65         29.85		HF 🐝
	200 10.255 (A-4.0) [INSULATION COAT AREA] 2.00 10.255 (B)	

1 PULL BAR

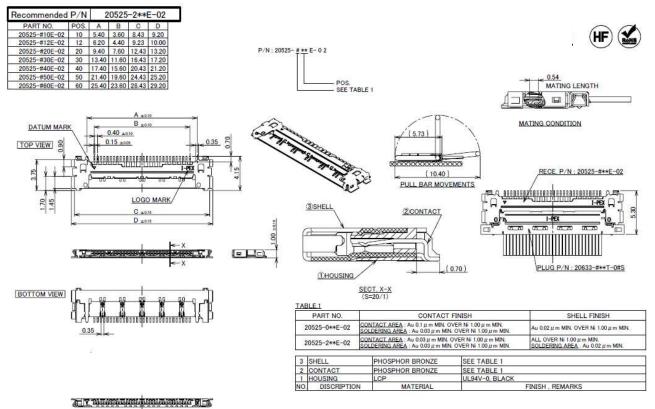
DISCRIPTION

MATERIAL

Rev.14

FINISH , REMARKS

### **Receptacle Assembly**



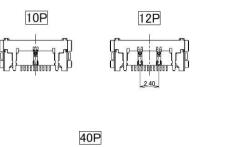


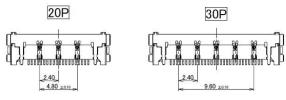


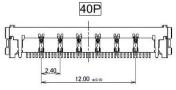
## **Receptacle Assembly**

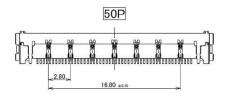


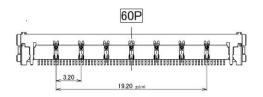
#### BOTTOM VIEW





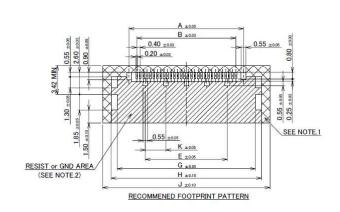


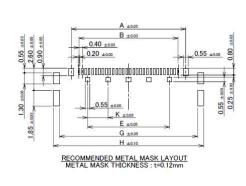




Rev.24

PART NO.	POS.	Α	В	E	G	Н	J	K
20525-#10E-02	10	5.40	3.60	-	8.18	9.60	11.60	7.5
20525-#12E-02	12	6.20	4.40	2.40	8.98	10.40	12.40	1.
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





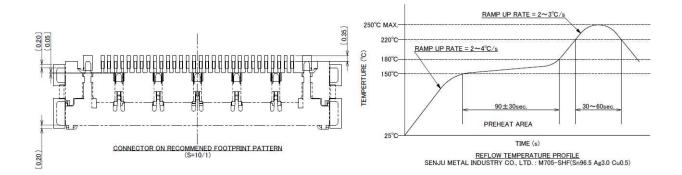
NOTES.

1. IN CASE OF PLUG WITH PULL BAR(20633-###T-01S), THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

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



## **Receptacle Assembly**



ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO COAX : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE : AWG# 36, 34 TWINICOAX : AWG# 40
RATING VOLTAGE	100V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT/UP TO 60 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT/UP TO 50 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT/UP TO 40 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT/UP TO 14 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT/UP TO 14 CONTACTS 1.0A AC/DC [AWG#36] PER CONTACT/UP TO 6 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#36) 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#40) 1080mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL: 50mohm MAX. / AFTER TEST: ∠40mohm MAX.
NSULATION 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.
PRODUCT SPECIFICATION	PRS-1968
TEST REPORT	TR-14122 (20525-0**E-0##) / TR-16023 (20525-2**E-0##)
INSTRUCTION MANUAL	HIM-09008
ASSEMBLY MANUAL	ASM-09005





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