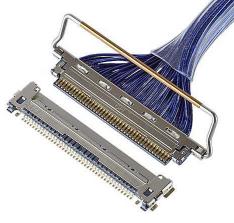
# **CABLINE®-CA**

High-data-rate transfer, mechanical lock with shielding and multi-point ground, 0.4 mm pitch, Horizontal mating type micro-coaxial connector

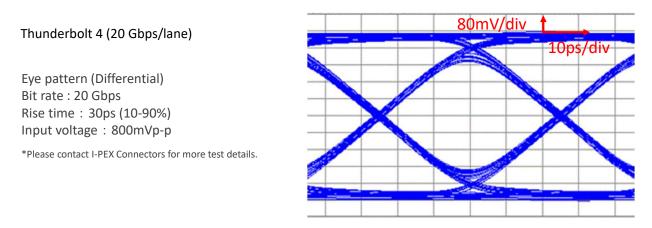
Product Specifications:				Applicable Cable Size:				
Mating type		Horizontal		Maximum O.D. (mm)	0.4			
Board Pitch (mm)		0.4		Micro-Coaxial	45 ohm: #38 or smaller			
Wiping Length (mm)		0.54		for Signal (AWG)	50 ohm: #40 or smaller			
Mated size Height		1.0 +/- 0.1		Twinax (AWG)	#40			
	Width	Formula: 6.95 + (0.4*?p)		Discrete (AWG)	#34 or smaller			
(mm)	Depth	5.73		Applicable Standards (Reference Only):				
Pin Counts Range		Up to 60	] [	Thunderbolt 4 (20 Gbps/lane), PCIe Gen 4 (16 GT/s),				
Pin Counts	Available	10, 12, 20, 30, 40, 50, 60		USB 3.1 Gen 2 (10 Gbps), eDP HBR 3 (8.1 Gbps)				



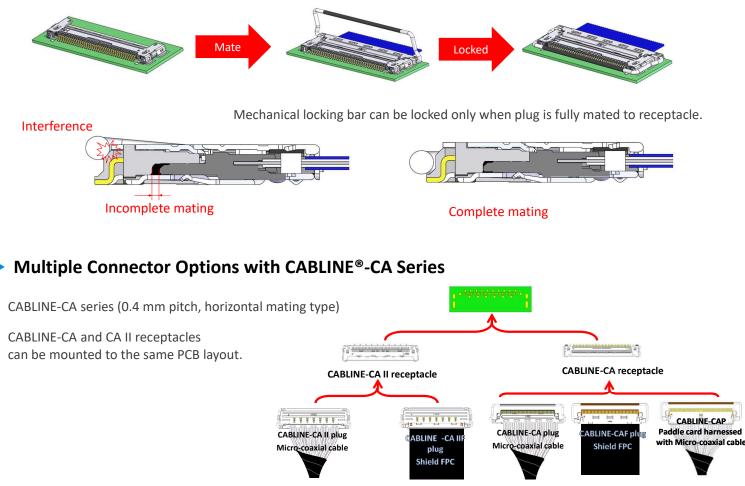
**Micro-Coaxial Connector** 

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

#### High-Data-Rate Transfer, Ideal for Thunderbolt 4 (20 Gbps/lane) Applications



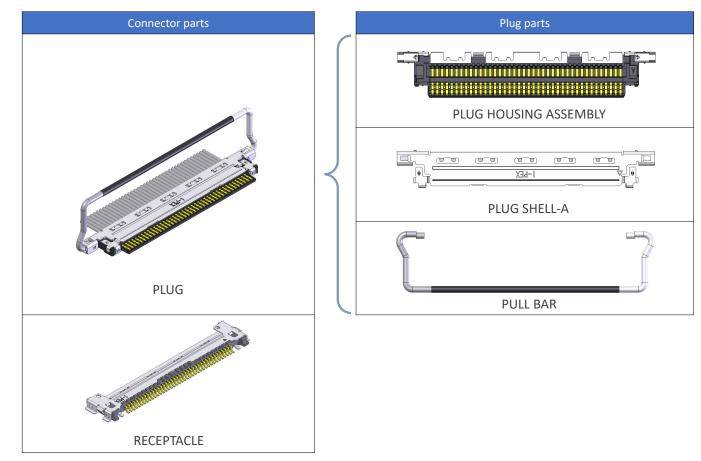
#### Mechanical Locking Bar Prevents Incomplete Mating and Back-out/Un-mating





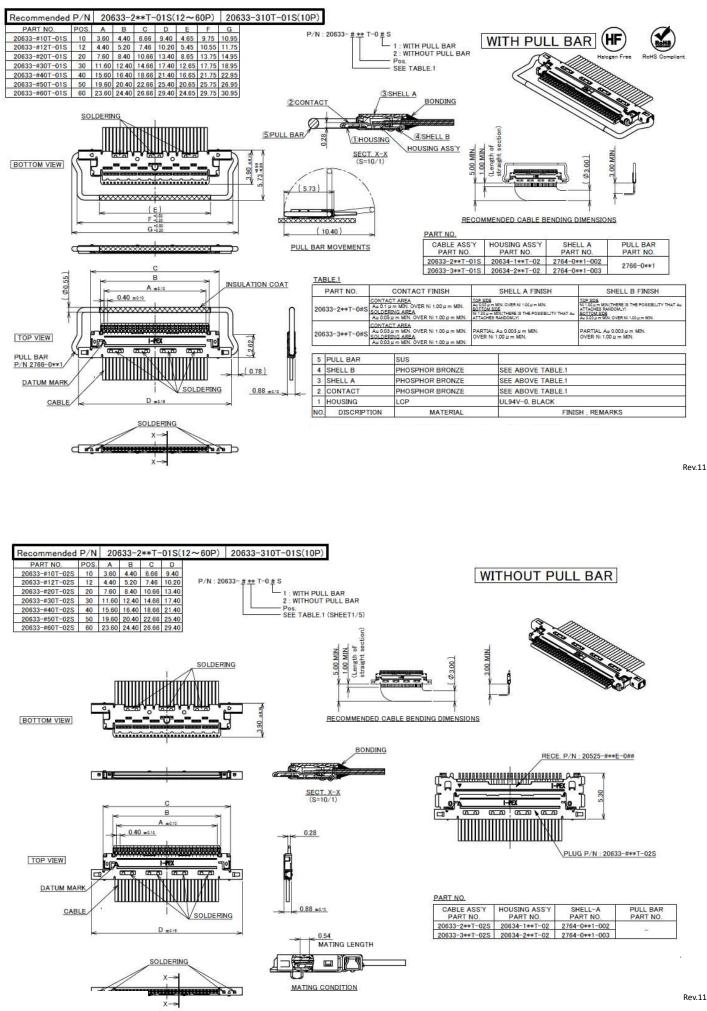
# **Component Parts Details**

### **Component Parts**



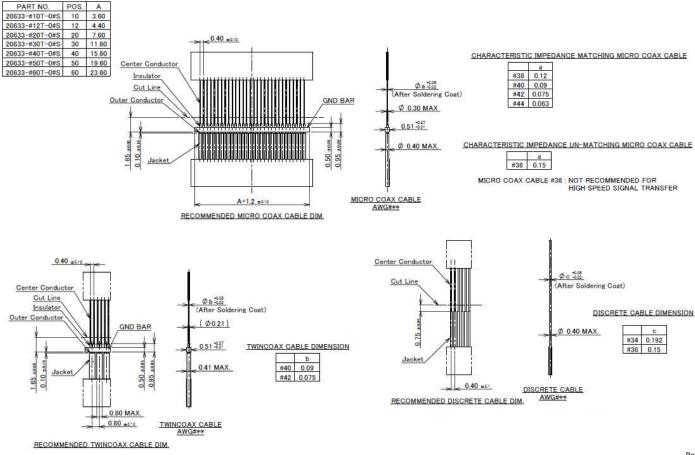
I-PEX

## Plug for Cable Assembly

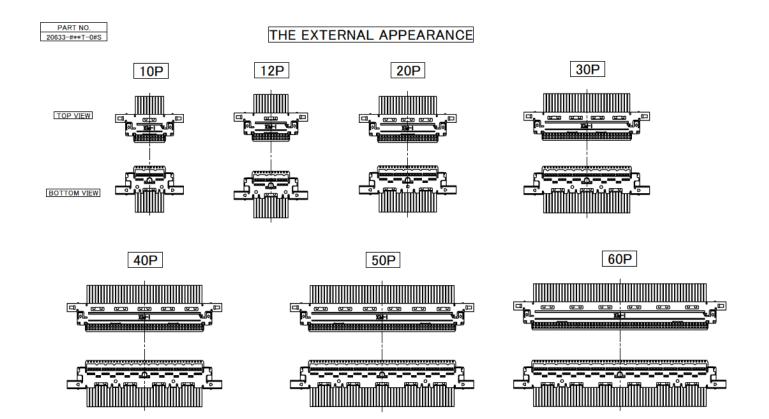


I-PEX

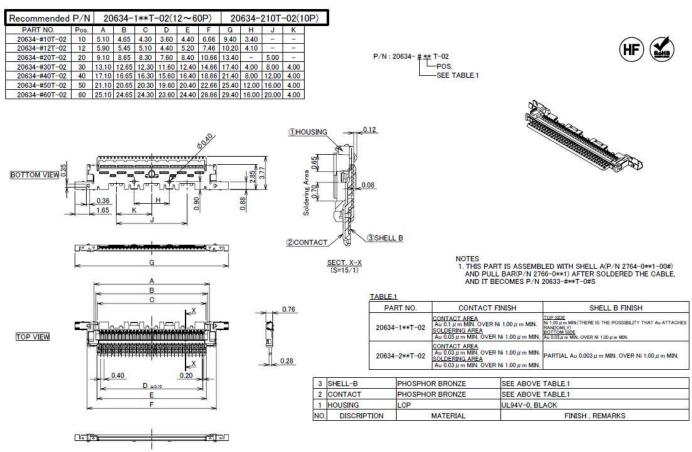
## Plug for Cable Assembly



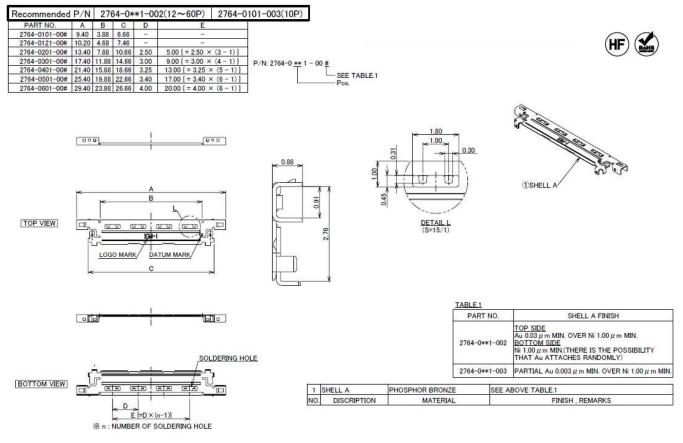
Rev.11



## Plug Housing Assembly



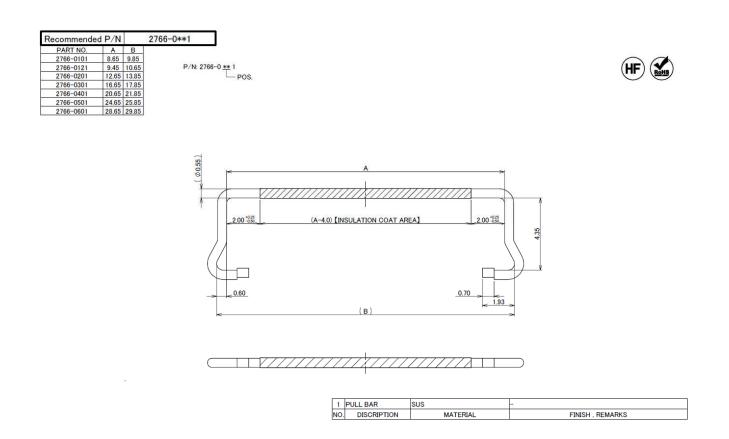
### Plug Shell-A



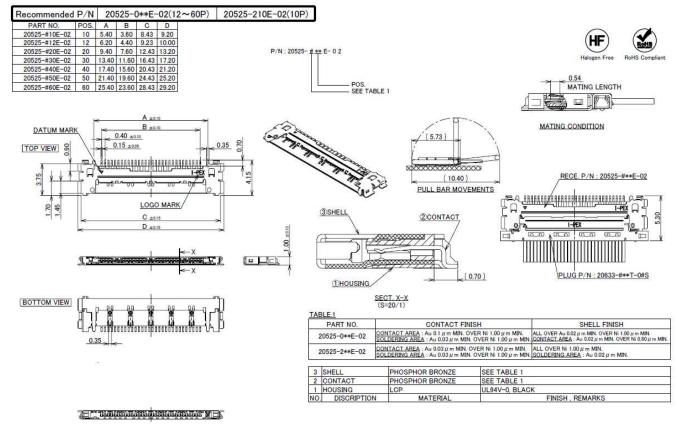


Rev 11

## Plug Pull Bar



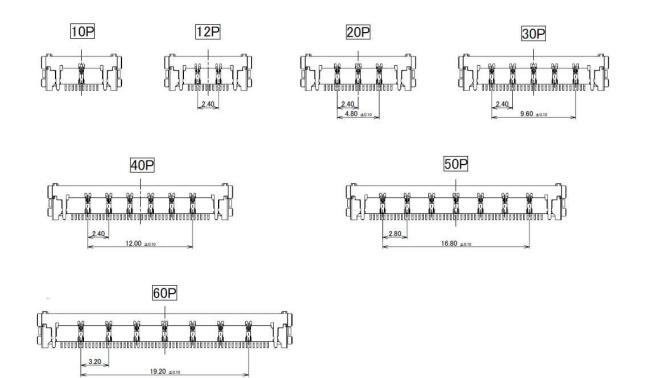
#### **Receptacle Assembly**





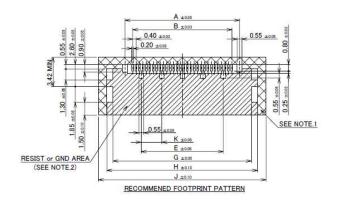
## **Receptacle Assembly**

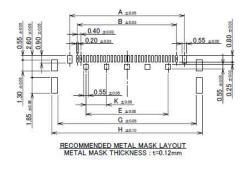
#### BOTTOM VIEW



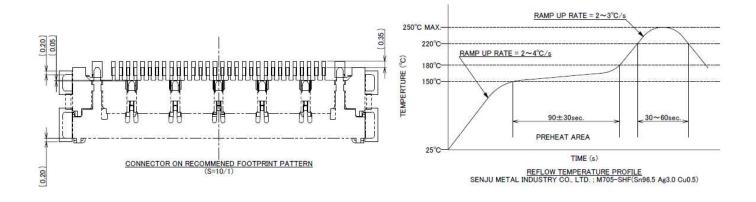
Rev.26

PART NO.	POS.	A	в	E	G	н	J	K
20525-#10E-02	10	5.40	3.60	i l	8.18	9.60	11.60	-
20525-#12E-02	12	6.20	4.40	2.40	8.98	10.40	12.40	192
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-015), THIS AREA CANNOT MOUNT ANOTHER COMPONENTS. 2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



ITEMS	SPECIFICATION					
APPLICABLE CABLE	MICRO COAX : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE : AWG# 36 , 34 TWINCOAX : 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 41 CONTACTS 0.8A AC/DC [AWG#38] 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 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	INTIAL : 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 : 240mohm 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.					
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					
APPEARANCE CRITERIA No.	QLS-A***					





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