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:

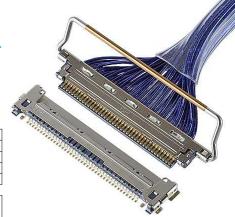
Troduct Specifications.								
Matin	g type	Horizontal						
Board Pit	tch (mm)	0.4						
Wiping Le	ngth (mm)	0.54						
Mated size	Height	1.0 +/- 0.1						
	Width	Formula: 6.95 + (0.4*?p)						
(mm)	Depth	5.73						
Pin Counts	Range	Up to 60						
Pin Counts	Available	10, 12, 20, 30, 40, 50, 60						

Αp	р	lic	cal	ole	Ca	bl	е	Siz	œ:
			-			_	_	-	

Maximum O.D. (mm)	0.4					
Micro-Coaxial	45 ohm: #38 or smaller					
for Signal (AWG)	50 ohm: #40 or smaller					
Twinax (AWG)	#40					
Discrete (AWG)	#34 or smaller					
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pplicable Standards (Reference Only):

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



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

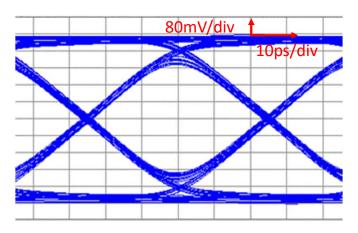
Thunderbolt 4 (20 Gbps/lane)

Eye pattern (Differential)

Bit rate: 20 Gbps

Rise time: 30ps (10-90%) Input voltage: 800mVp-p

^{*}Please contact I-PEX Connectors for more test details.

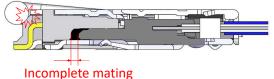


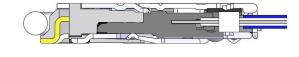
Mechanical Locking Bar Prevents Incomplete Mating and Back-out/Un-mating



Mechanical locking bar can be locked only when plug is fully mated to receptacle.





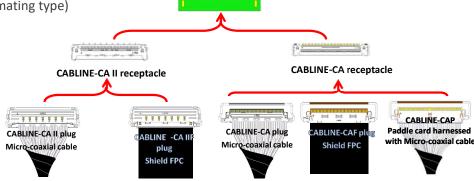


Complete mating

Multiple Connector Options with CABLINE®-CA Series

CABLINE-CA series (0.4 mm pitch, horizontal mating type) CABLINE-CA and CA II receptacles

can be mounted to the same PCB layout.



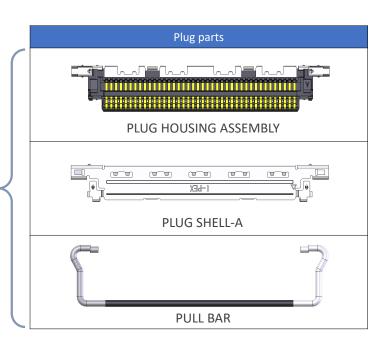


^{*} Please inquire for pin counts not listed or outside of the pin count range

Component Parts Details

Component Parts

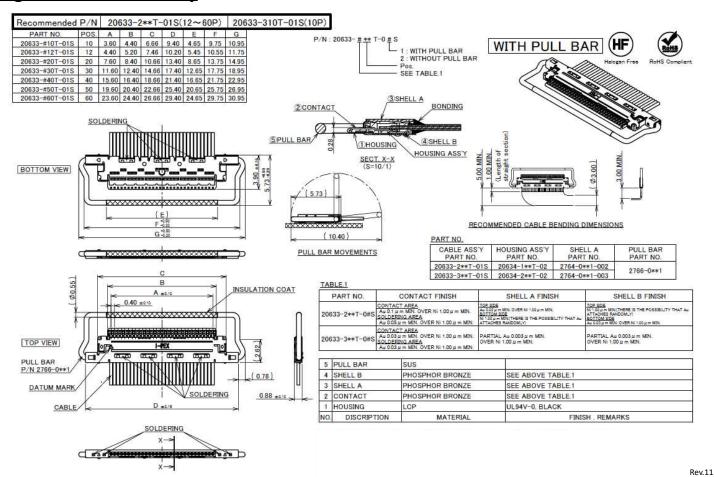


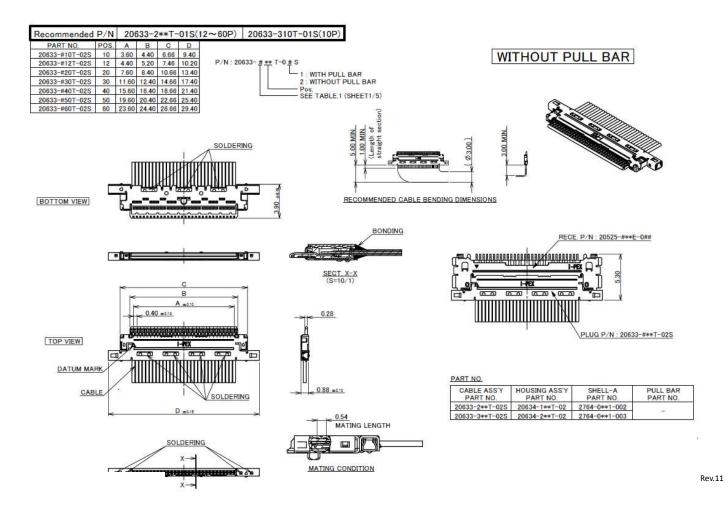




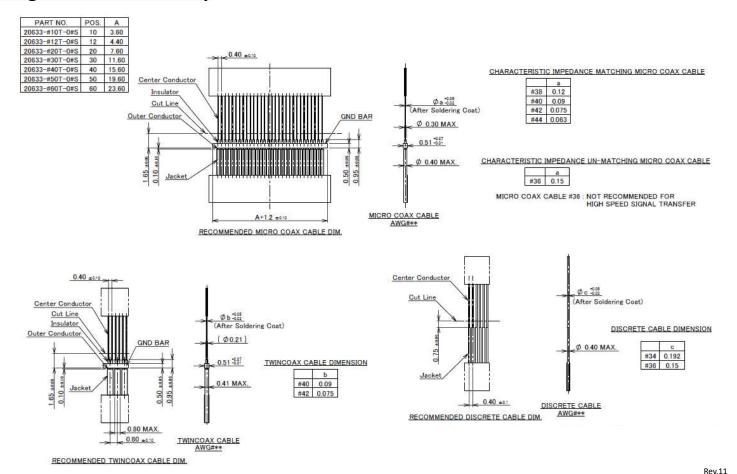


Plug for Cable Assembly





Plug for Cable Assembly

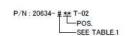


PART NO. THE EXTERNAL APPEARANCE 20633-#**T-0#S 30P 10P 12P 20P TOP VIEW BOTTOM VIEW 40P 50P 60P



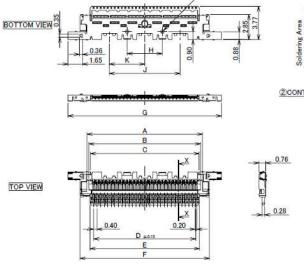
Plug Housing Assembly

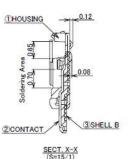
Recommended P/N		20	634-	4-1**T-02(12~60P)					20634-210T-02(10P)			
PART NO.	Pos.	Α	В	С	D	E	F	G	н	J	K	
20634-#10T-02	10	5.10	4.65	4.30	3.60	4.40	6.66	9.40	3.40	-	=	
20634-#12T-02	12	5.90	5.45	5.10	4.40	5.20	7.46	10.20	4.10		-	
20634-#20T-02	20	9.10	8.65	8.30	7.60	8.40	10.66	13.40	100	5.00	-	
20634-#30T-02	30	13.10	12.65	12.30	11.60	12.40	14.66	17.40	4.00	8.00	4.00	
20634-#40T-02	40	17.10	16.65	16.30	15.60	16,40	18.66	21.40	8.00	12.00	4.00	
20634-#50T-02	50	21.10	20.65	20.30	19.60	20,40	22.66	25.40	12.00	16.00	4.00	
20634-#60T-02	60	25.10	24.65	24.30	23.60	24.40	26.66	29.40	16.00	20.00	4.00	













NOTES
1. THIS PART IS ASSEMBLED WITH SHELL A(P/N 2764-0**1-00#)
AND PULL BAR(P/N 2766-0**1) AFTER SOLDERED THE CABLE,
AND IT BECOMES P/N 20633-#**T-0#S

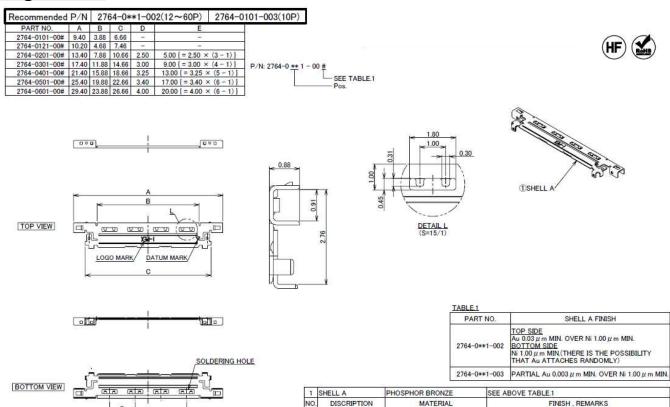
PART NO.	CONTACT FINISH	SHELL B FINISH
20634-1**T-02	SOLDERING AREA	TOP SIDE NI 1.00 µm MIN.(THERE IS THE POSSIBILITY THAT AU ATTACHES RANDOMLY) BOTTOM SIDE AU 0.03 µm MIN. OVER NI 1.00 µm MIN.
20634-2**T-02	CONTACT AREA Au 0.03 \(\mu\) m MIN. OVER Ni 1.00 \(\mu\) m MIN. SOLDERING AREA Au 0.03 \(\mu\) m MIN. OVER Ni 1.00 \(\mu\) m MIN.	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.

NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
1	HOUSING	LCP	UL94V-0, BLACK
2	CONTACT	PHOSPHOR BRONZE	SEE ABOVE TABLE.1
3	SHELL-B	PHOSPHOR BRONZE	SEE ABOVE TABLE 1

Rev.11

Plug Shell-A

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Rev.11



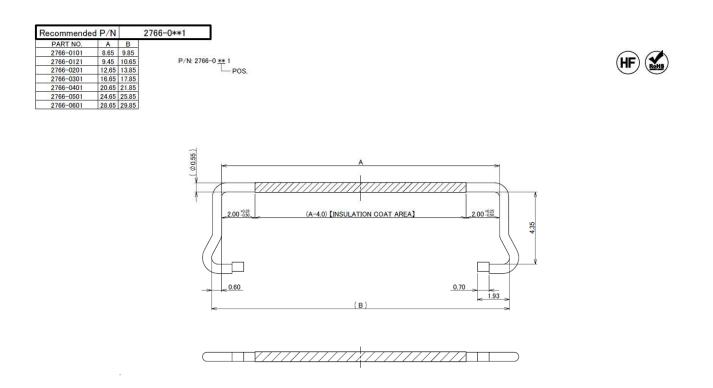
E (=D × (n-1)) ※ n : NUMBER OF SOLDERING HOLE



DISCRIPTION

MATERIAL

Plug Pull Bar



1 PULL BAR

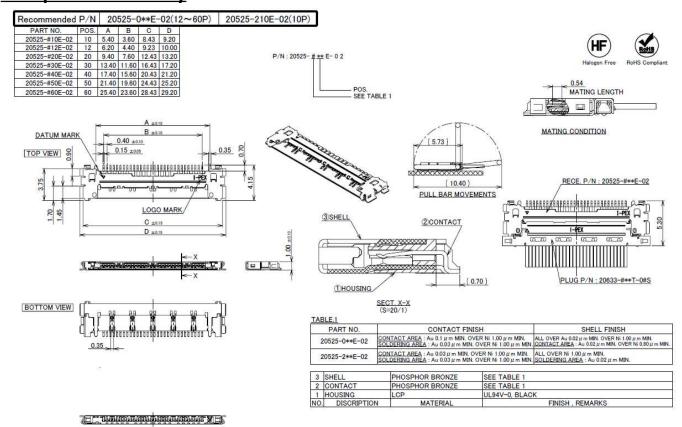
DISCRIPTION

MATERIAL

Rev 14

FINISH , REMARKS

Receptacle Assembly

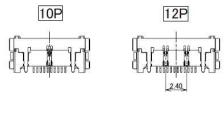


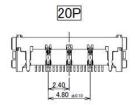


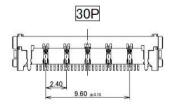
Receptacle Assembly

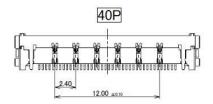


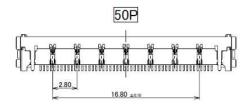
BOTTOM VIEW

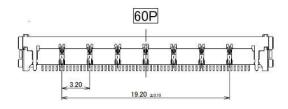






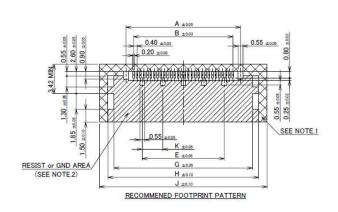


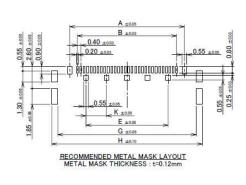




Rev.26

PART NO.	POS.	Α	В	E	G	H	J	K
20525-#10E-02	10	5.40	3.60		8.18	9.60	11.60	-
20525-#12E-02	12	6.20	4.40	2.40	8.98	10.40	12.40	-20
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





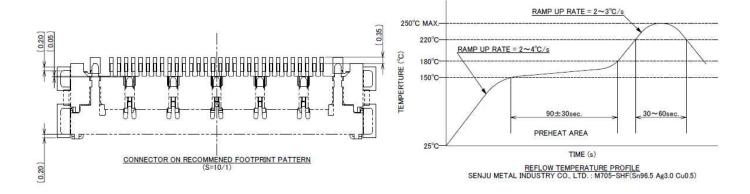
NOTES.

1. IN GASE 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 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#30] 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 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#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.					
PRODUCT SPECIFICATION	PRS-1968					
TEST REPORT	TR-14122 (20525-0**E-0##) / TR-16023 (20525-2**E-0##)					
NSTRUCTION MANUAL	HIM-09008					
ASSEMBLY MANUAL	ASM-09005					
APPEARANCE CRITERIA No.	QLS-A***					







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