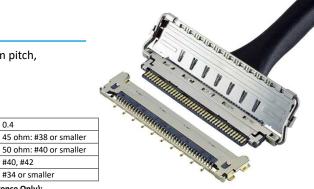
CABLINE®-CA II

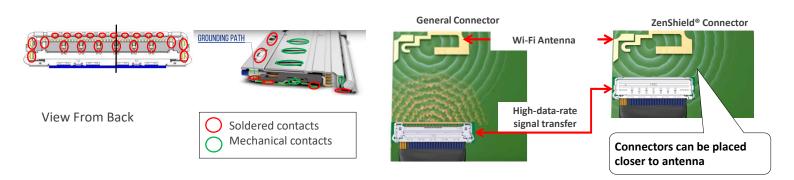
Fully-shielded with mechanical lock, high-data-rate transfer, 0.4 mm pitch, horizontal mating type micro-coaxial connector



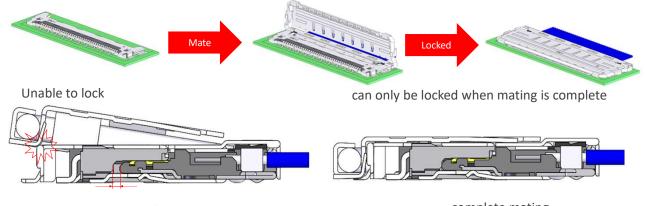
	Product Specific	ations:		Applicable Cable Size:			
	Mating type		Horizontal	Maximum O.D. (mm) 0.4			
	Board Pitch (mm) Wiping Length (mm)		0.4	Micro-Coaxial 45 ohm: #38 or smaller			
			0.54	for Signal (AWG) 50 ohm: #40 or smaller			
		Height	1.1 max. with cover	Twinax (AWG) #40, #42			
	Mated size (mm)	Width	Formula: 6.95 + (0.4*?p)	Discrete (AWG) #34 or smaller			
		Depth	6.2	Applicable Standards (Reference Only):			
	Pin Counts	Range	Up to 60	USB4/Thunderbolt 4 (20 Gbps/lane), PCIe [®] Gen 4 (16 GT/s eDP HBR 3 (8.1 Gbps)			
		Available	20, 30, 40, 50				

* Please inquire for pin counts not listed or outside of the pin count range.
* 60p is also available with CABLINE®-CA II PLUS (wider space type).

ZenShield[®] fully-shielded with multi-point grounds to prevent EMI leakage



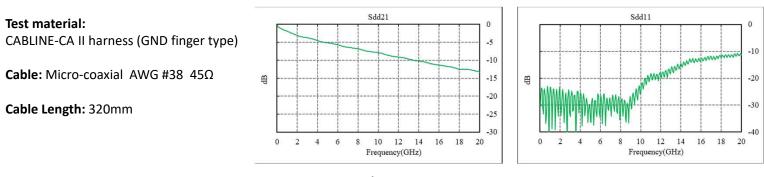
Mechanical locking cover prevents incomplete mating and back-out/un-mating



incomplete mating

complete mating

Excellent differential SI performance



I-PEX

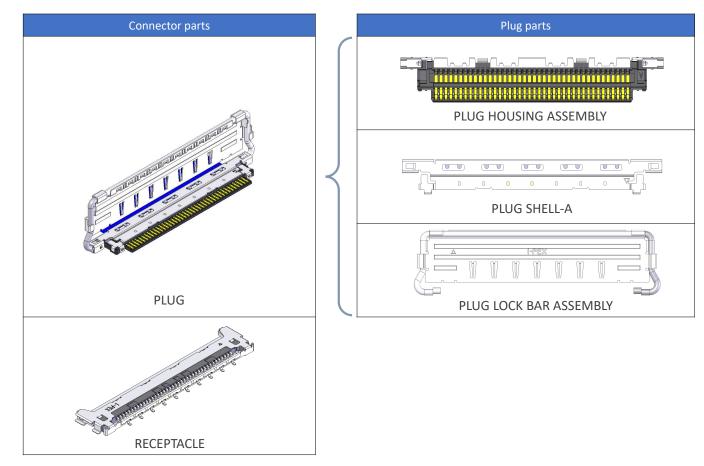
Insertion Loss

Return Loss

Contact your sales representative for more detailed information. www.i-pex.com

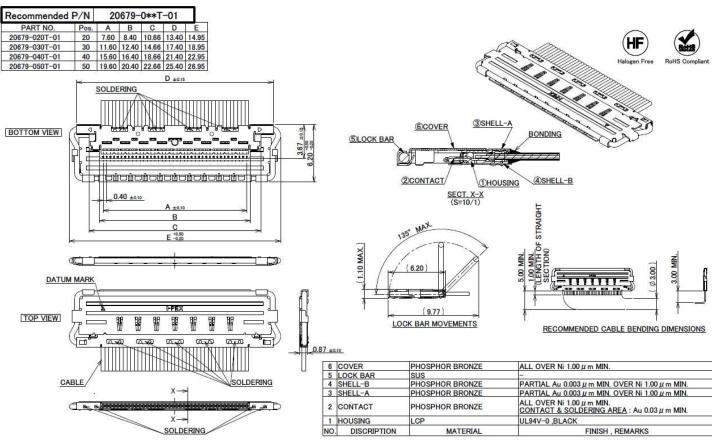
Component Parts Details

Component Parts

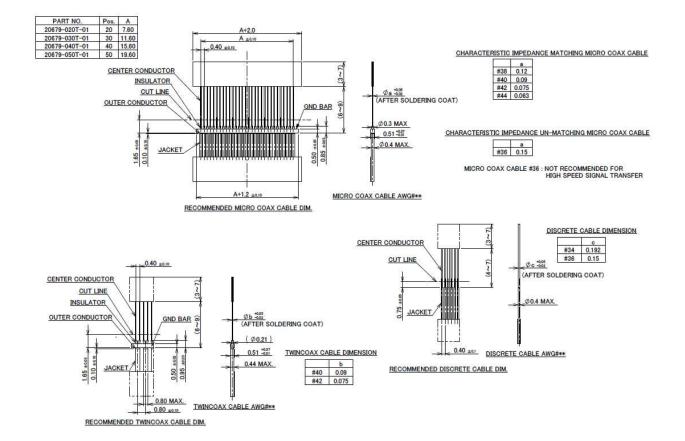




Plug for Cable Assembly

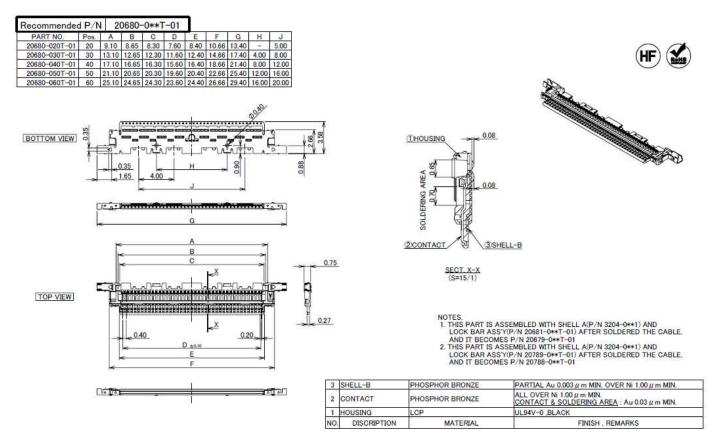


Rev.8



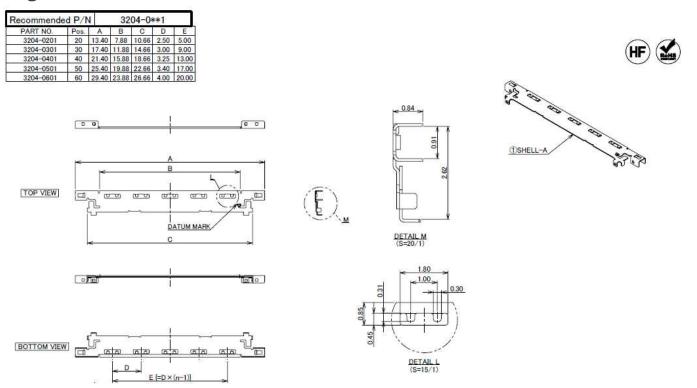
I-PEX

Plug Housing Assembly



Rev.7

Plug Shell-A



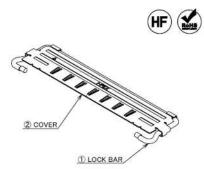
1 5	HELL-A	PHOSPHOR BRONZE	PARTIAL Au 0.003 µ m MIN. OVER Ni 1.00 µ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

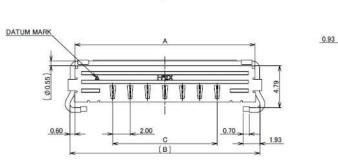
I-PEX

Lock Bar Assembly

Recommended	20681-0**T-01			
PART NO.	Pos.	Α	В	C
20681-020T-01	20	12.65	13.85	4.00
20681-030T-01	30	16.65	17.85	8.00
20681-040T-01	40	20.65	21.85	12.00
20681-050T-01	50	24.65	25.85	16.00

di l



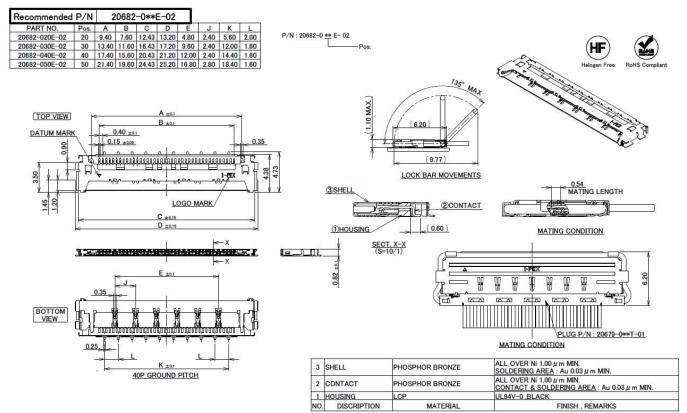


DD



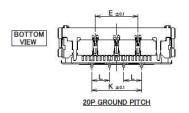
2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 µ m MIN.	
1	LOCK BAR	SUS Ø 0.55	=	
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS	

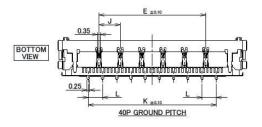
Receptacle Assembly

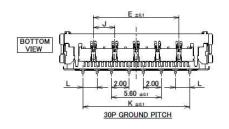


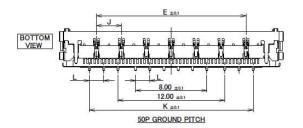
Receptacle Assembly

PART NO.	Pos.	E	J	K	L
20682-020E-02	20	4.80	2.40	5.60	2.00
20682-030E-02	30	9.60	2.40	12.00	1.60
20682-040E-02	40	12.00	2.40	14.40	1.60
20682-050E-02	50	16.80	2.80	18.40	1.60

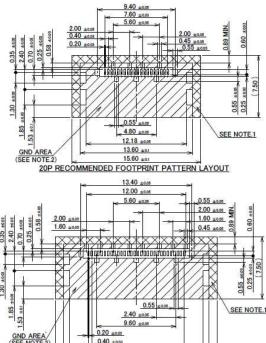


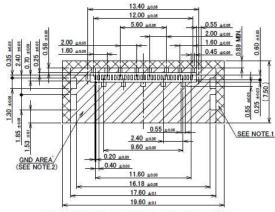






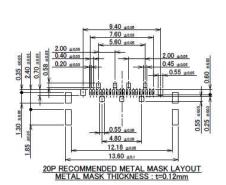
Rev.12

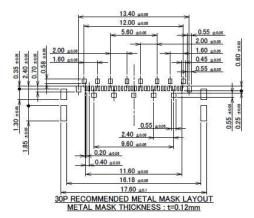




30P RECOMMENDED FOOTPRINT PATTERN LAYOUT

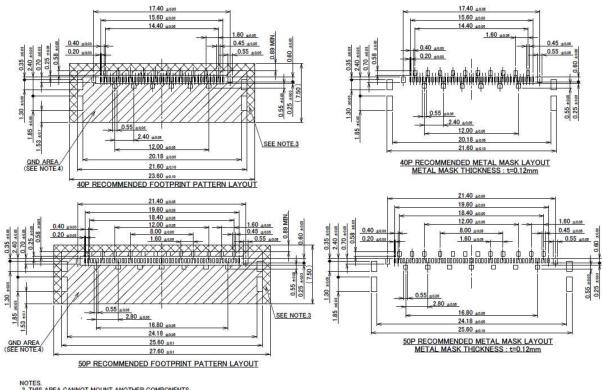
NOTES. 1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS. 2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.





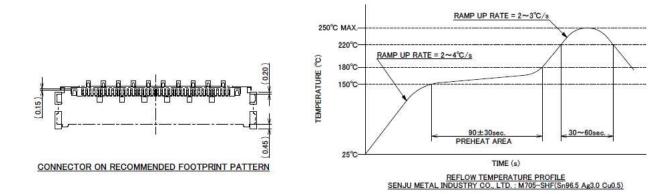
I-PEX

Receptacle Assembly



NOTES. 3. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS. 4. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

Rev.12



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)				
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT/UP TO 50 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT/UP TO 50 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT/UP TO 50 CONTACTS 0.5A AC/DC [AWG#36] PER CONTACT/UP TO 18 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT/UP TO 18 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT/UP TO 6 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT/UP TO 6 CONTACTS 3% TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION.				
OPERATING TEMPERATURE	233~378K(-40°C~105°C)				
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)				
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG#34) / AFTER TEST : _/40mohm MAX. 275mohm MAX.(AWG#36) 380mohm 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)	20P : 9.70N MAX. 30P : 14.55N MAX. 40P : 19.40N MAX. 50P : 24.25N MAX.				
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.				
CABLE RETENTION FORCE	20P : 9.70N MIN. 30P : 14.55N MIN. 40P : 19.40N MIN. 50P : 24.25N MIN.				
COPLANARITY	0.10 MAX.				
PRODUCT SPECIFICATION	PRS-2163				
TEST REPORT	TR-15103				
INSTRUCTION MANUAL	HIM-15033				
PACKING STANDARD	PST-15027				
APPEARANCE CRITERIA No.	QLS-A***				





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> Contact your sales representative or more detailed information.

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