

CABLINE®-VS II

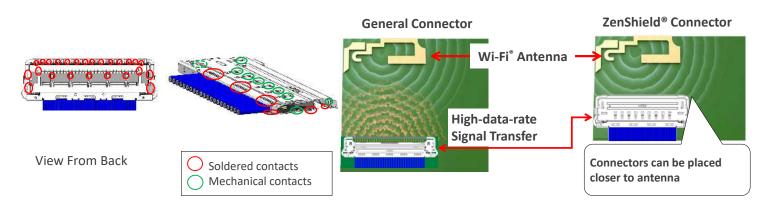
Fully-shielded with mechanical lock, Suitable for high-data-rate transfer (20 Gbps/lane), 5 mm pitch, Horizontal mating type micro-coaxial connector

Product Specifications:				Applicable Cable Size:		
Mating type		g type	Horizontal	Maximum O.D. (mm)	0.5	
Board Pitch (mm)		tch (mm)	0.5	Micro-Coaxial	45 ohm: #36 or smaller	
W	iping Lei	ngth (mm)	0.54	for Signal (AWG)	50 ohm: #38 or smaller	
		Height	1.2 max. with cover	Twin Coaxial (AWG)	#40	
Mated size (mm)		Width	Formula: 6.85 + (0.5*?p)	Discrete (AWG)	#32 or smaller	
	Depth	6.70	Applicable Standards (Reference Only):			
Pin Counts	Range	Up to 55	USB4/Thunderbolt 4(20 Gbps/lane), PCIe Gen 4 (16			
PIILO	Pin Counts	Available	20, 30, 40	GT/s), USB 3.1 Gen 2 (10 Gbps), eDP HBR 3 (8.1 Gbps)		

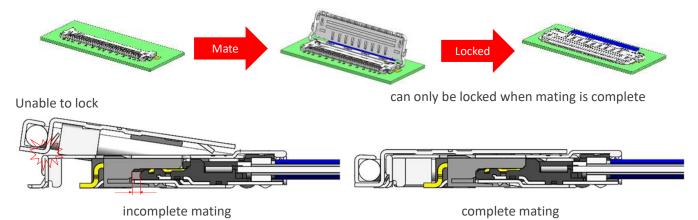


* Please inquire for pin counts not listed or outside of the pin count range.

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



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

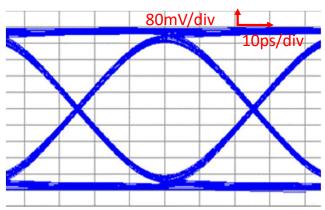


High-data-rate transfer, ideal for Thunderbolt 4 (20 Gbps/lane) applications

Thunderbolt 4 (20 Gbps/lane)

Eye pattern (Differential) Bit rate : 20 Gbps Rise time : 30ps (10-90%) Input voltage : 800mVp-p

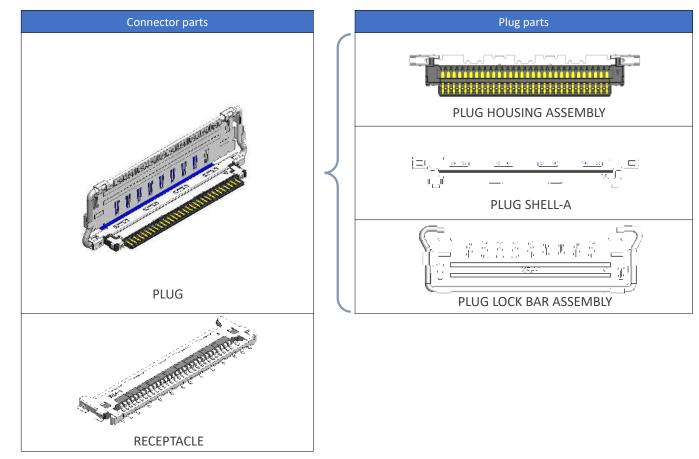
*Please contact I-PEX for more test details.





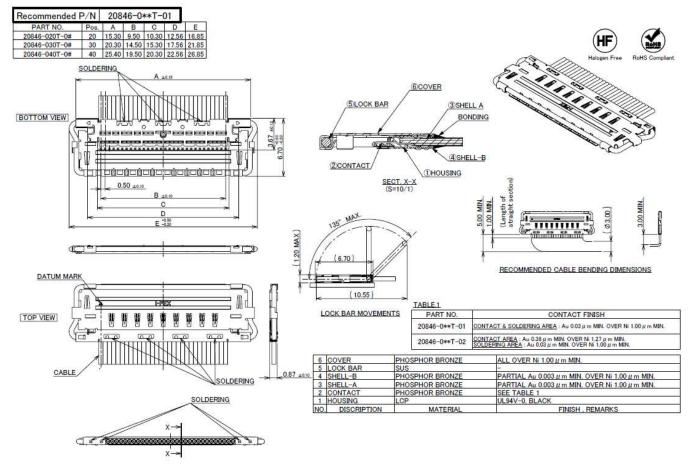
Component Parts Details

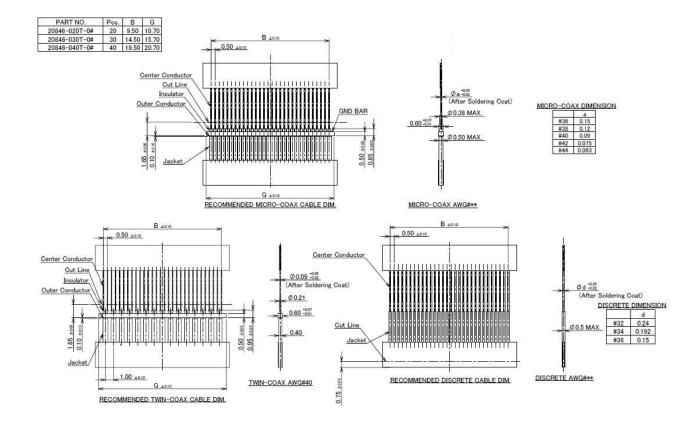
Component Parts





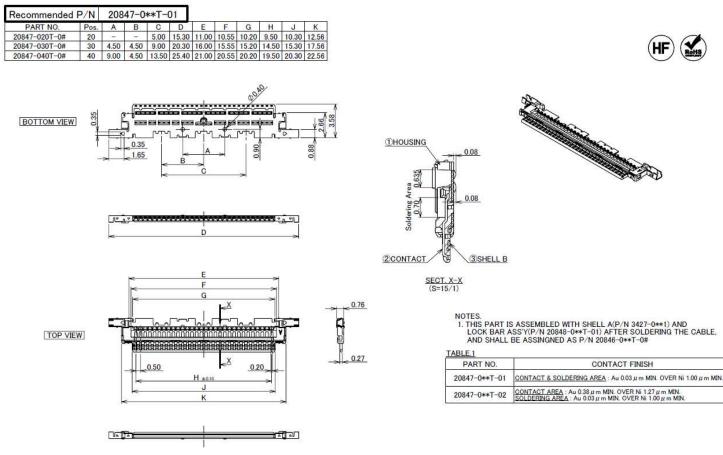
Plug for Cable Assembly





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Plug Housing Assembly

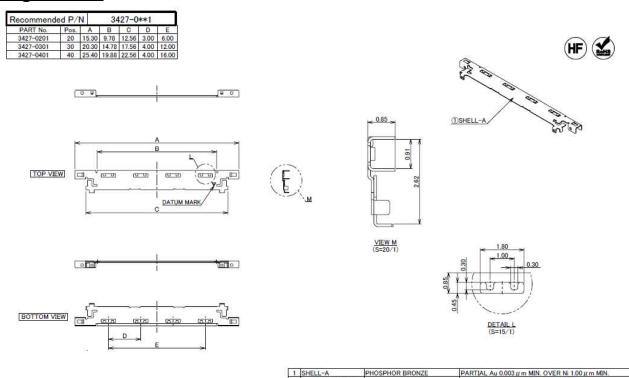


Rev.6

CONTACT FINISH

Plug Shell-A

I-PEX



NO. DISCRIPTION

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

MATERIAL

FINISH , REMARKS

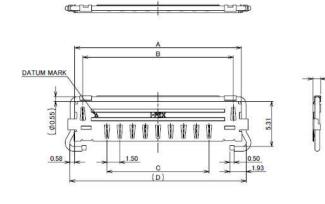
Plug Lock Bar Assembly

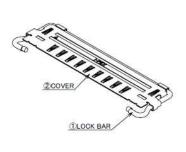
Recommended	20848-0**T-01					
PART NO.	Pos.	A	В	C	D	E
20848-020T-01	20	14.59	12.70	7.50	15.75	7.00
20848-030T-01	30	19.59	17.70	12.00	20.75	12.00
20848-040T-01	40	24.59	22.70	18.00	25.75	17.00

20848-0<u>**</u>T-01 _____POS.

0.93

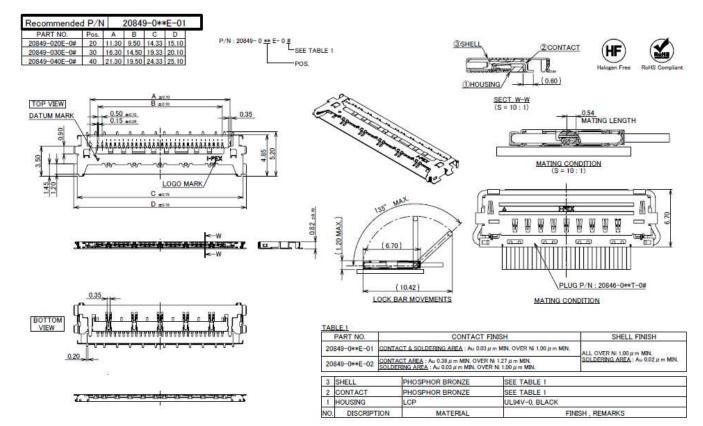






2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 µ m MIN.	
1 LOCK BAR		SUS Ø 0.55	-	
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS	

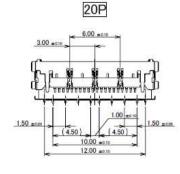
Receptacle Assembly

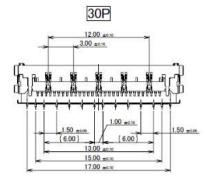


Receptacle Assembly

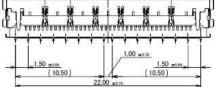


BOTTOM VIEW



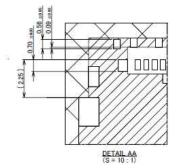


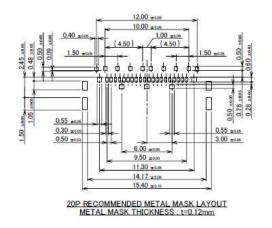




15.40 ±0.00 12.00 ±0.05 10.00 ±0.05 0.40 ± 1.00 =0.05 (4.50) (4.50) **NIM 68.0** 1.50 ± 1.50 ±0.00 2.25 =005 AA 0.60 the the state of the 0.25 # 100 0.55 1.70 = 0.00 SEE NOTE.2 1.53 =0.1 0.55 =0 GND AREA (SEE NOTE 1) 0.55 ±0.05 0.30 ±0.03 0.50 ± TT 3.00 ±005 6.00 ±0.05 9.50 ±000 11.30 ±000 14.17 ±0 16.55 ±0.10 18.20 ±0.10

20P RECOMMENDED FOOTPRINT PATTERN LAYOUT



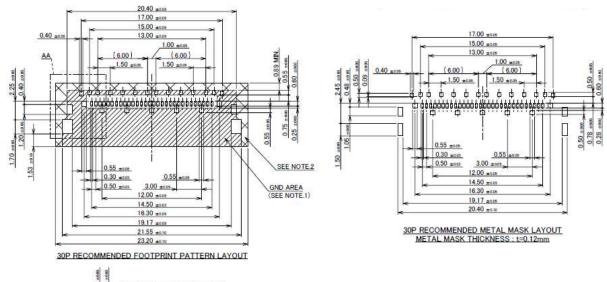


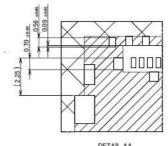
NOTES. 1. SOLDER RESIST MUST BE APPLIED TO THIS AREA. 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA. Rev.9



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

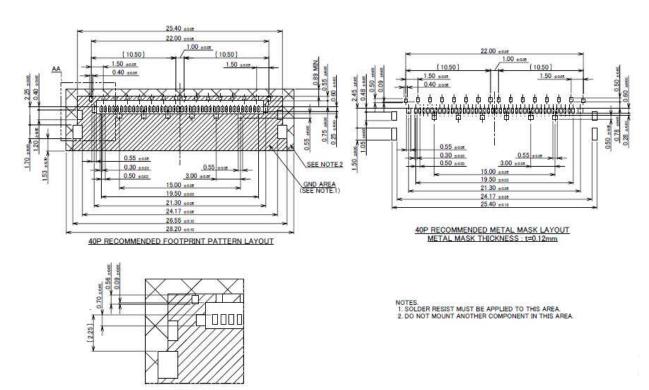
Receptacle Assembly





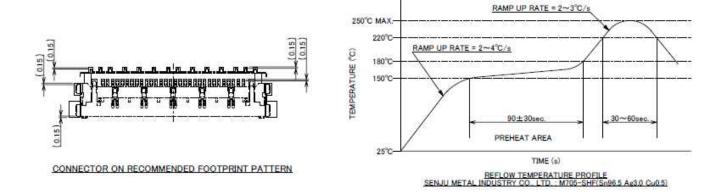
DETAIL AA (S = 10 : 1) NOTES. 1. SOLDER RESIST MUST BE APPLIED TO THIS AREA. 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

Rev.9



DETAIL AA (S = 10 : 1)

I-PEX



ITEMS	SPECIFICATION				
APPLICABLE CABLE	MICRO COAX : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE : AWG# 36 , 34 , 32 TWIN COAX : AWG# 40				
RATING VOLTAGE	100V AC (PER CONTACT)				
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT/UP TO 40 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT/UP TO 40 CONTACTS 0.3A AC/DC [AWG#42] PER CONTACT/UP TO 40 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT/UP TO 23 CONTACTS 0.8A AC/DC [AWG#38] PER CONTACT/UP TO 10 CONTACTS 1.0A AC/DC [AWG#38] PER CONTACT/UP TO 9 CONTACTS 1.0A AC/DC [AWG#32] FOR POWER PER CONTACT/UP TO 9 CONTACTS				
OPERATING TEMPERATURE	233~378K(-40°C~+105°C)				
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)				
CONTACT RESISTANCE	INITIAL : 140mohm MAX.(AWG#32) / AFTER TEST : ⊿40mohm MAX. 180mohm MAX.(AWG#34) 275mohm MAX.(AWG#36) 360mohm MAX.(AWG#48) 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.				
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 2.00N MIN. 30P : 3.00N MIN. 40P : 4.00N MIN.				
CABLE RETENTION FORCE	20P : 9.80N MIN. 30P : 14.70N MIN. 40P : 19.60N MIN.				
PRODUCT SPECIFICATION	PRS-2398				
TEST REPORT	TR-17060 (20846-0**T-01) / TR-18048 (20846-0**T-02)				
INSTRUCTION MANUAL	HIM-17015				
ASSEMBLY MANUAL	ASM-17005				
APPEARANCE CRITERIA No.	QLS-A***				



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> Contact your sales representative or more detailed information.

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