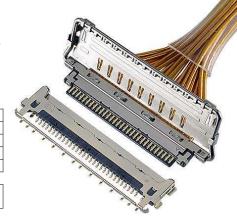


CABLINE®-VS II

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

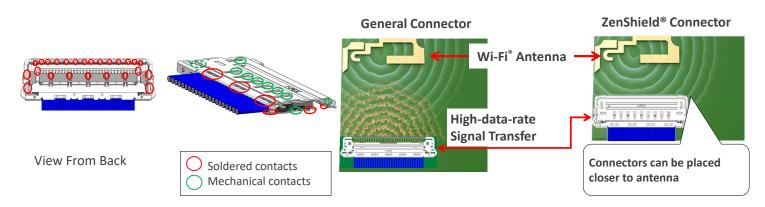
Product Specificati

Product Specifications:				Applicable Cable Size:		
	Mating type		Horizontal	Maximum O.D. (mm)	0.5	
	Board Pitch (mm)		0.5	Micro-Coaxial	45 ohm: #36 or smaller	
	Wiping 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):		
Din	Pin Counts	Range	Up to 55	USB4/Thunderbolt 4(20 Gbps/lane), PCIe Gen 4 (16		
PIII		Available	20, 30, 40	GT/s), USB 3.1 Gen 2 (10 Gbps), eDP HBR 3 (8.1 Gbps)		

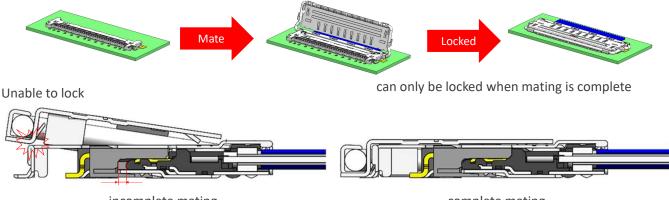


* Please inquire for pin counts not listed or outside of the pin count range.

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



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



incomplete mating

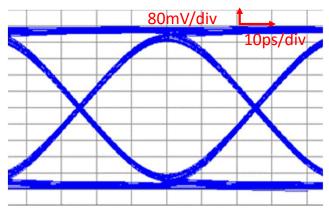
complete mating

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

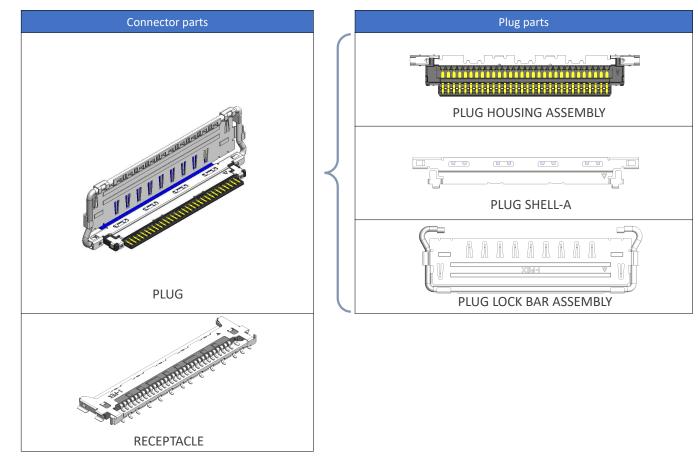
*Please contact I-PEX for more test details.





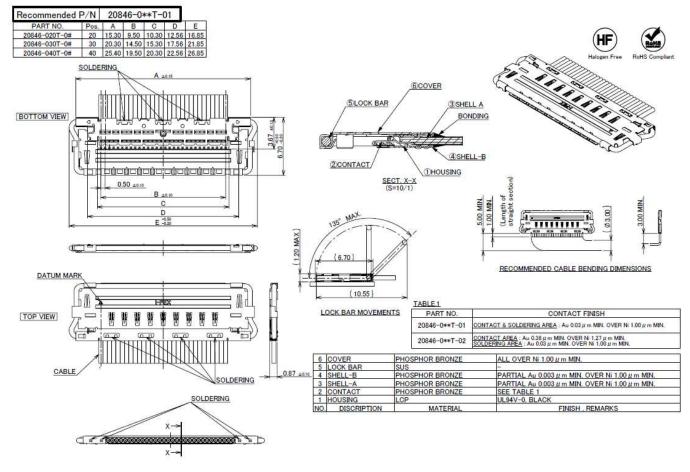
Component Parts Details

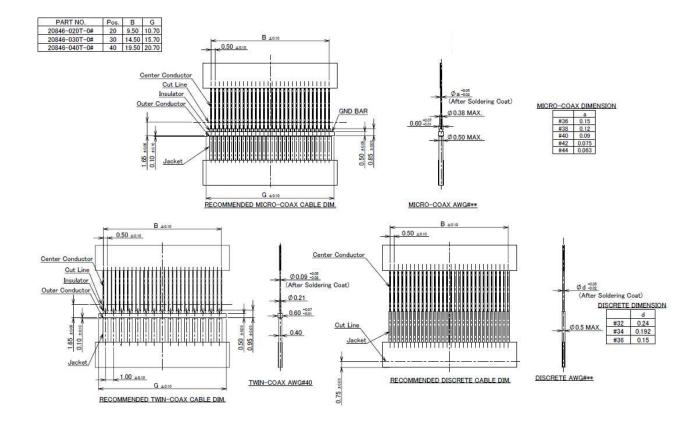
Component Parts





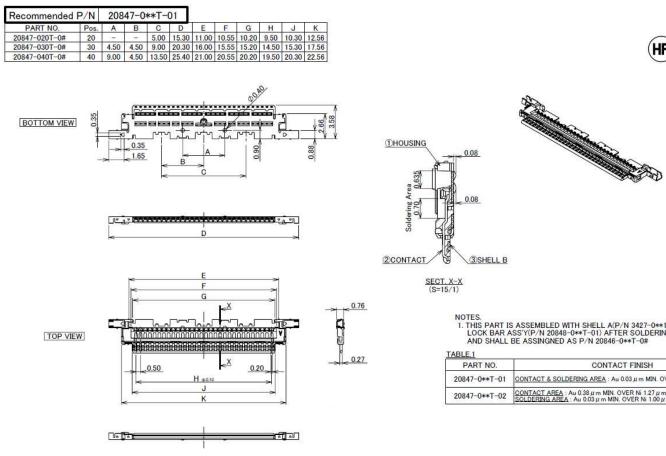
Plug for Cable Assembly





I-PEX

Plug Housing Assembly

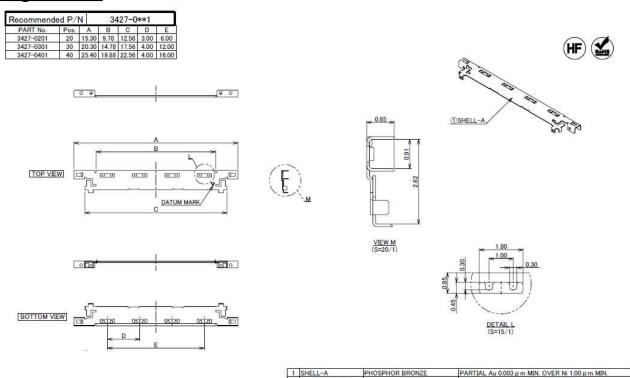


NOTES. 1. THIS PART IS ASSEMBLED WITH SHELL A(P/N 3427-0**1) AND LOCK BAR ASS'Y(P/N 20849-0**T-01) AFTER SOLDERING THE CABLE, AND SHALL BE ASSINGNED AS P/N 20846-0**T-0#

PART NO.	CONTACT FINISH
20847-0**T-01	CONTACT & SOLDERING AREA : Au 0.03 µ m MIN. OVER Ni 1.00 µ m MIN
20847-0**T-02	CONTACT AREA : Au 0.38 μ m MIN. OVER Ni 1.27 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.

Rev.6

Plug Shell-A



NO. DISCRIPTION

-	

MATERIAL

FINISH , REMARKS

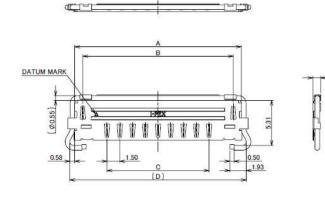
Plug Lock Bar Assembly

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**T-01 POS.

0.93

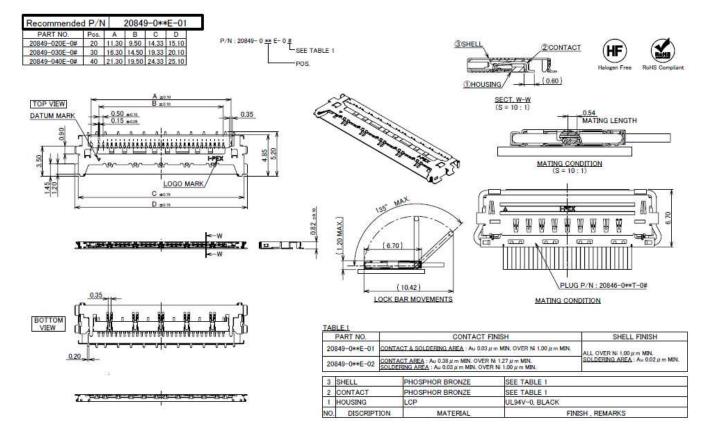






2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 µ m MIN.
1	LOCK BAR	SUS Ø 0.55	-
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

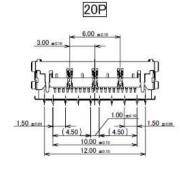
Receptacle Assembly



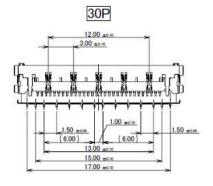
Receptacle Assembly



BOTTOM VIEW

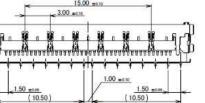


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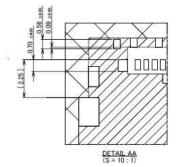


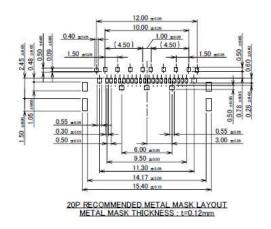
22.00



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 =0.0 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

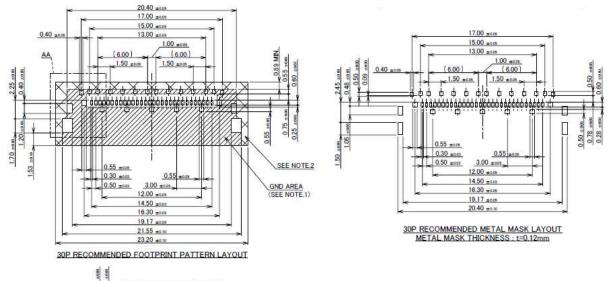


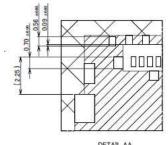


NOTES. 1. SOLDER RESIST MUST BE APPLIED TO THIS AREA. 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.



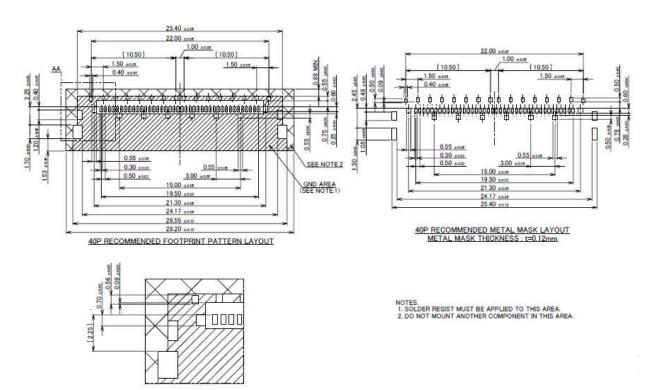
Receptacle Assembly





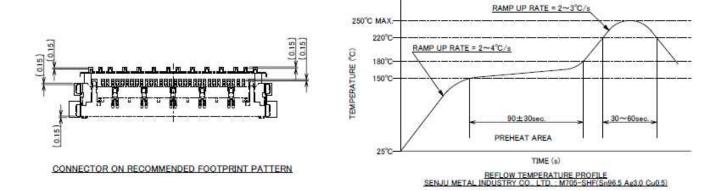
DETAIL AA (S = 10 : 1) NOTES. 1. SOLDER RESIST MUST BE APPLIED TO THIS AREA. 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

Rev.9



DETAIL AA (S = 10 : 1)

I-PEX



ITEMS	SPECIFICATION MICRO COAX: AWG# 44, 42, 40, 38, 36 DISCRETE: AWG# 36, 34, 32 TWIN COAX: AWG# 40				
APPLICABLE CABLE					
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#40] 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#34] PER CONTACT/UP TO 9 CONTACTS 1.0A AC/DC [AWG#32] FOR POWER PER CONTACT POWER PER CONTACTS 1.0A AC/DC [AWG#32] FOR POWER PER CONTACT POWER PER CONTACTS 1.0A AC/DC [AWG#32] FOR POWER PER CONTACT POWER PER CONT				
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#38) 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)	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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