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

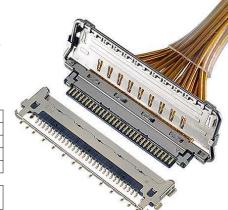
Product Specifications:

Matin	g type	Horizontal		
Board Pit	tch (mm)	0.5		
Wiping Le	ngth (mm)	0.54		
	Height	1.2 max. with cover		
Mated size (mm)	Width	Formula: 6.85 + (0.5*?p)		
(11111)	Depth	6.70		
Pin Counts	Range	Up to 55		
	Available	20, 30, 40		

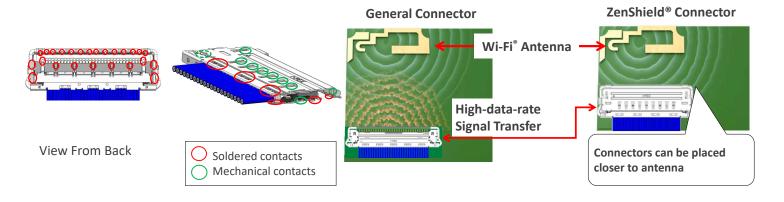
Applicable cable Size.			
Maximum O.D. (mm)	0.5		
Micro-Coaxial	45 ohm: #36 or smaller		
for Signal (AWG)	50 ohm: #38 or smaller		
Twin Coaxial (AWG)	#40		
Discrete (AWG)	#32 or smaller		

Applicable Standards (Reference Only):

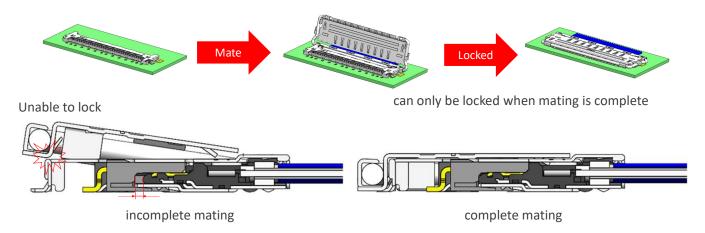
USB4/Thunderbolt 4(20 Gbps/lane), PCle Gen 4 (16
GT/s), USB 3.1 Gen 2 (10 Gbps), eDP HBR 3 (8.1 Gbps)



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



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



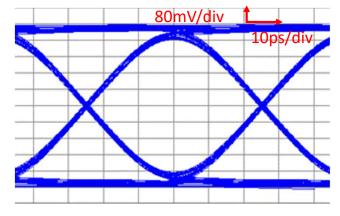
High-data-rate transfer, ideal for Thunderbolt 4 (20 Gbps/lane) applications

Thunderbolt 4 (20 Gbps/lane)

Eye pattern (Differential)

Bit rate: 20 Gbps

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



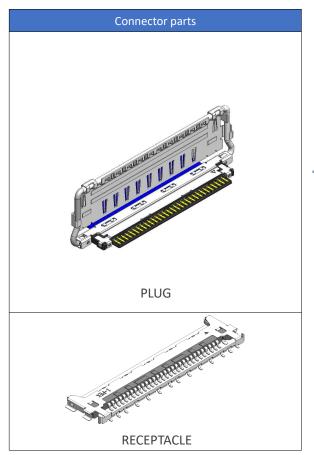


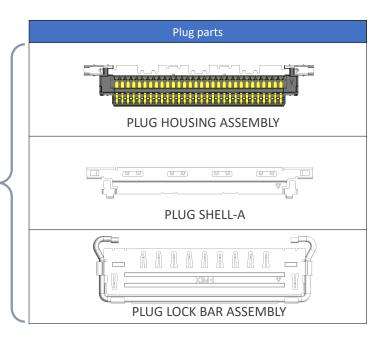
^{*} Please inquire for pin counts not listed or outside of the pin count range.

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

Component Parts Details

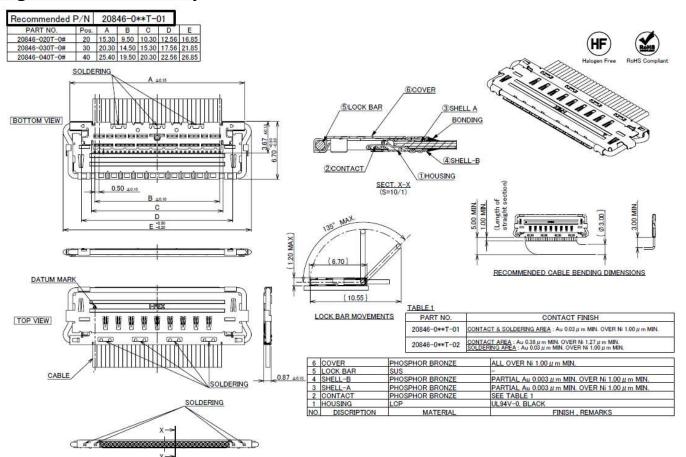
Component Parts



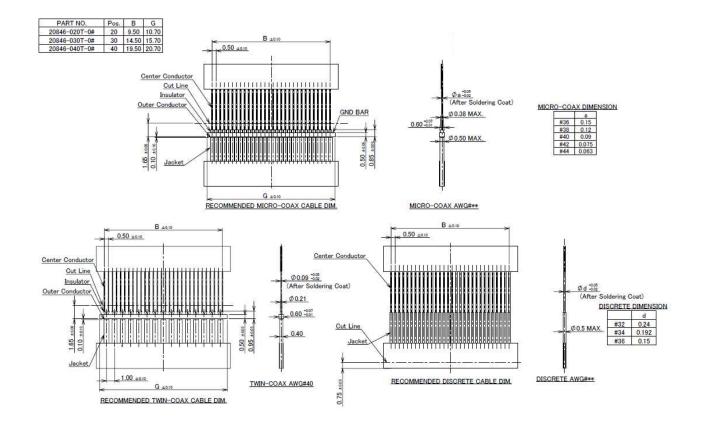




Plug for Cable Assembly



Rev.10





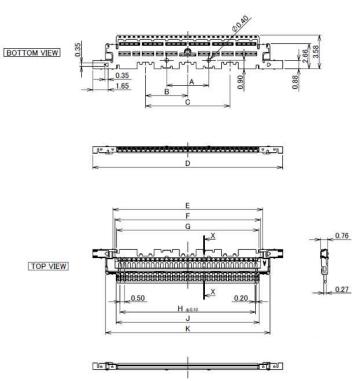


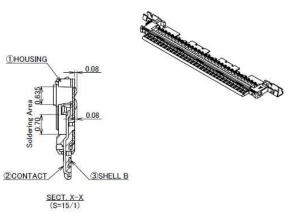
Plug Housing Assembly

Recommended	P/N	208	47-0	**T-	01						
PART NO.	Pos.	Α	В	C	D	E	F	G	Н	J	K
20847-020T-0#	20	1-	-	5.00	15.30	11.00	10.55	10.20	9.50	10.30	12.56
20847-030T-0#	30	4.50	4.50	9.00	20.30	16.00	15.55	15.20	14.50	15.30	17.56
20847-040T-0#	40	9.00	4.50	13.50	25.40	21.00	20.55	20.20	19.50	20.30	22.56









NOTES.

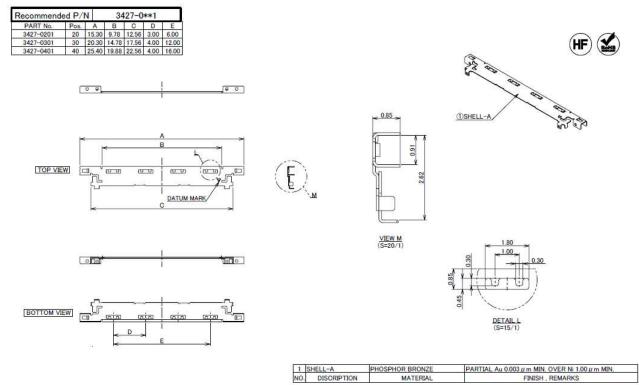
1. THIS PART IS ASSEMBLED WITH SHELL A(P/N 3427-0**1) AND LOCK BAR ASS'Y(P/N 20848-0**T-01) AFTER SOLDERING THE CABLE, AND SHALL BE ASSINGNED AS P/N 20846-0**T-0#

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

Rev.6

Plug Shell-A

I-PEX





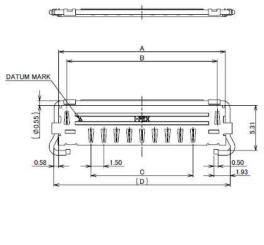
Plug Lock Bar Assembly

Recommended	20848-0**T-01					
PART NO.	Pos.	Α	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

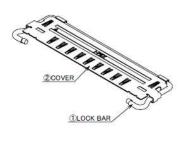










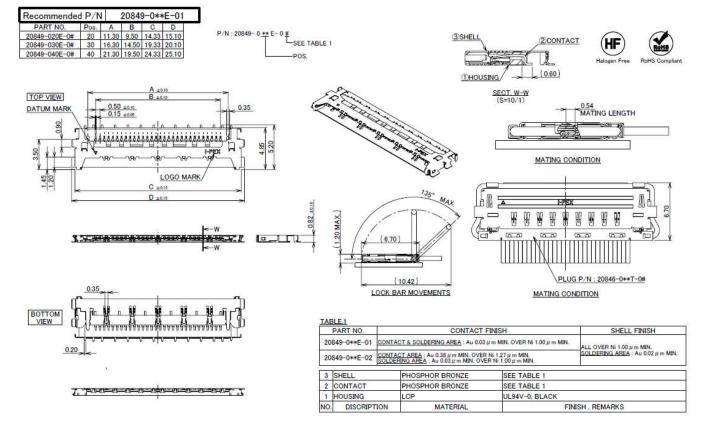




2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
1	LOCK BAR	SUS Ø 0.55	-
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.6

Receptacle Assembly



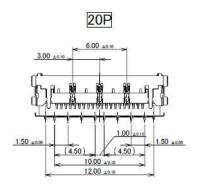
Rev.8

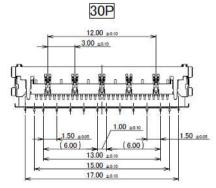


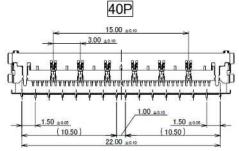
Receptacle Assembly

PART NO.	Pos.
20849-020E-0#	20
20849-030E-0#	30
20849-040E-0#	40

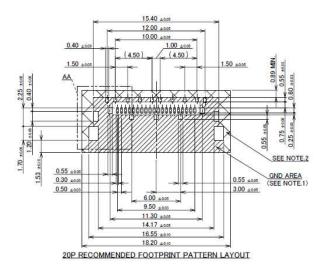
BOTTOM VIEW

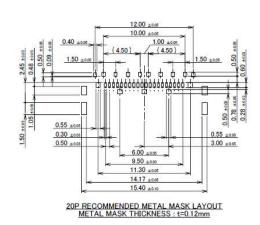


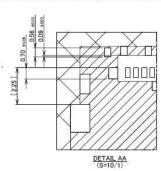




Rev.8







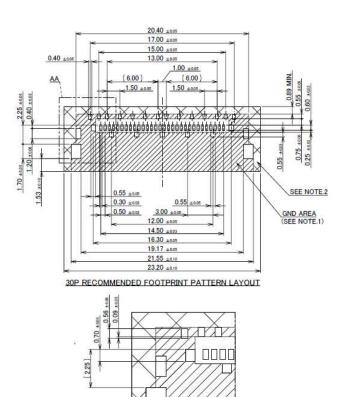
NOTES.

1. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOT PRINT PATTERN PROHIBITION AREA.

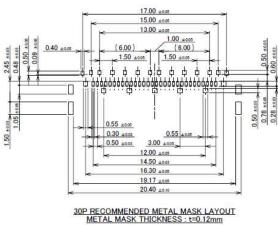
2. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.



Receptacle Assembly



DETAIL AA (S=10/1)



- NOTES.

 1. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOT PRINT PATTERN PROHIBITION AREA.

 2. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

25.40 ±0 22.00 ±0.05 1.00 ±0.06 22.00 ± (10.50) (10.50) 1.00 ±0.05 1.50 ±0.05 1.50 ±0.06 (10.50) (10.50) 0.40 ±0.05 0.40 ±0.05 4 4 4 4 4 4 4 4 ф фф ф ф 0.50 ±000 0.55 ±0.06 0.55 ±0.05 0.30 ±0.03 0.50 ±0.03 1.53 ±010 SEE NOTE.2 3.00 ±005_ 0.30 ±0.03 0.55 15.00 ±00 0.50 ±0.00 3.00 ±0.05 19.50 ±0.03 21.30 ±0.05 (SEE NOTE 1) 19.50 +00

0.09 ±000 (2.25) DETAIL AA (S=10/1)

24.17 ±0.05 26.55 ±0.10 28.20 ±0.10

40P RECOMMENDED FOOTPRINT PATTERN LAYOUT

NOTES.

1. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOT PRINT PATTERN PROHIBITION AREA.

2. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

25,40 ±0.10

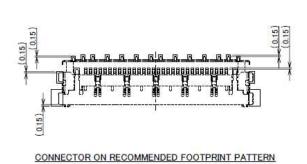
40P RECOMMENDED METAL MASK LAYOUT METAL MASK THICKNESS: t=0.12n

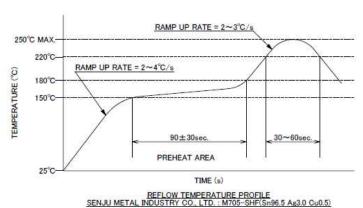
I-PEX

Rev.8

Rev 8

Receptacle Assembly





ENJO METAL INDUSTRY CO., ETD.: M/05-SHF(Sh96,5 Ag3.0 G80.5)

Rev.8

ITEMS	SPECIFICATION
	MICRO COAX : AWG# 44 , 42 , 40 , 38 , 36
APPLICABLE CABLE	DISCRETE: AWG# 36, 34, 32
1 5, 3-21, 344	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#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] FOR POWER PER CONTACT/UP TO 9 CONTACTS 1.0A AC/DC [AWG#32] FOR P
OPERATING TEMPERATURE	233~378K(-40°C~+105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL: 140mohm MAX.(AWG#32) / AFTER TEST: ∠140mohm MAX. 180mohm MAX.(AWG#34) 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)	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. www.i-pex.com

