CABLINE®-VS

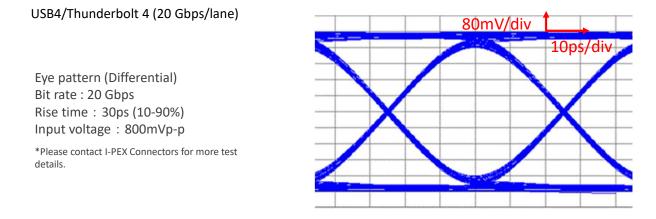
VESA standard connector, Suitable for high-data-rate transfer (20 Gbps/lane), Mechanical locking bar, 0.5 mm pitch, Horizontal mating type micro-coaxial connector

	Product Specifi	cations:			Applicable Cable Size:		
	Mating type		Horizontal		Maximum O.D. (mm)	0.5	
	Board Pit	tch (mm)	0.5		Micro-Coaxial	45 ohm: #36 or smaller	
-	Wiping Length (mm)		0.61		for Signal (AWG)	50 ohm: #38 or smaller	
	Mated size (mm)	Height	1.0 +/- 0.1		Twin Coaxial (AWG)	#40	
		Width	Formula: 7.55 + (0.5*?p)		Discrete (AWG)	#32 or smaller	
		Depth	5.8		Applicable Standards (Reference Only): USB4/Thunderbolt 4 (20 Gbps/lane), PCIe (16 GT/s), eDP (8.1 Gbps)		
	Pin Counts	Range	Up to 50				
		Available	20, 30, 40, 50				

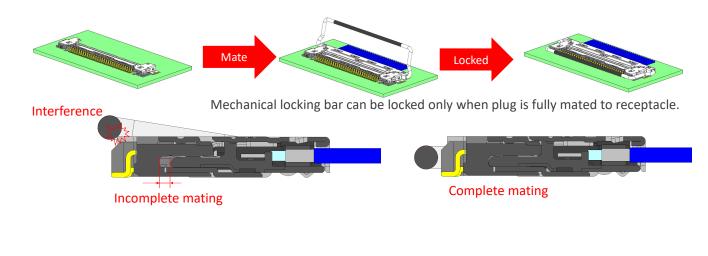


* Please inquire for pin counts not listed or outside of the pin count range.

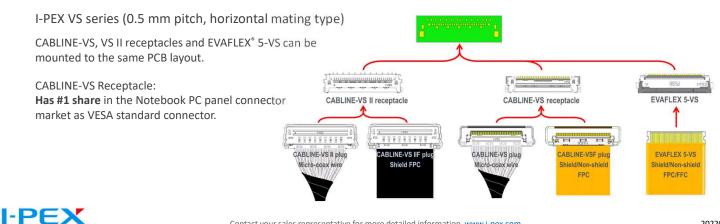
High-Data-Rate Transfer, Ideal for USB4/Thunderbolt 4 (20 Gbps/lane) Applications



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



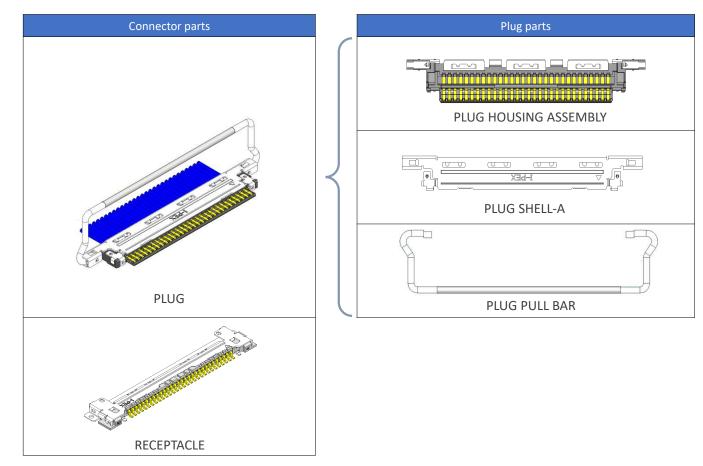
Multiple Connector Options with I-PEX VS Series



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

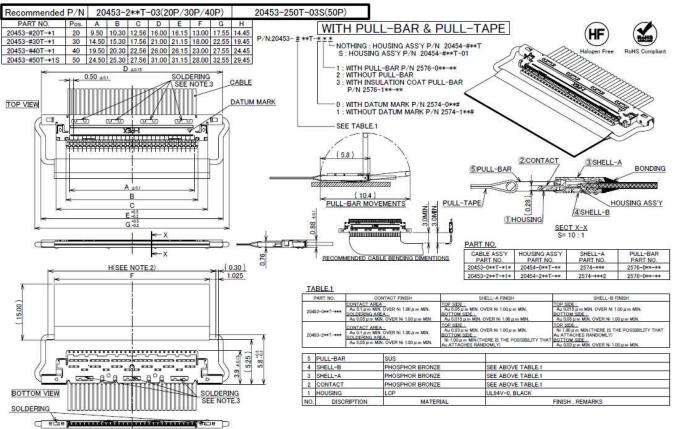
Component Parts Details

Component Parts



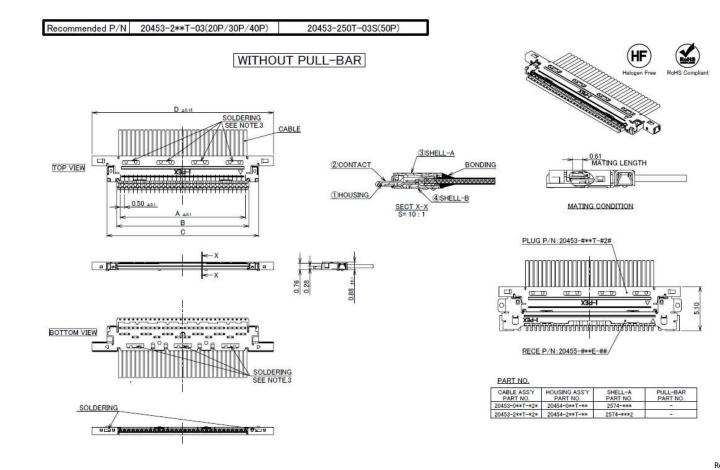


Plug for Cable Assembly



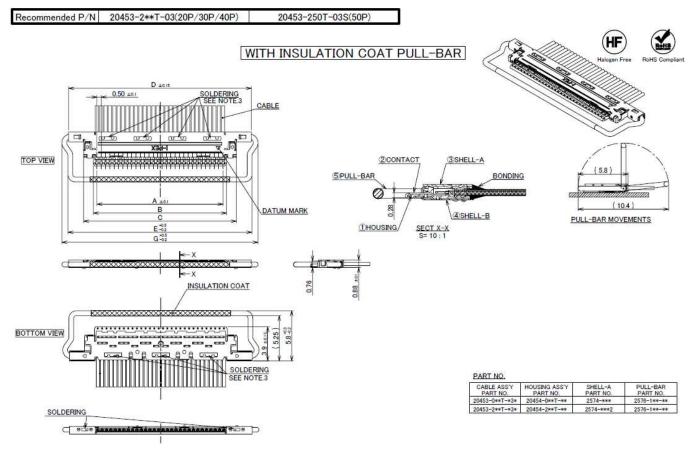
NOTES. 1.RECOMMENDED PULL-TAPE PULL-TAPE : TERAOKA'S INSULATION TAPE No.650S(#50) t=0.08 2.PULL-TAPE CAN BE PUT WITHIN THE RANGE OF "H"(STRAIGHT AREA) 3.SOLDERING IS ONLY A CASE WITH GND-BAR

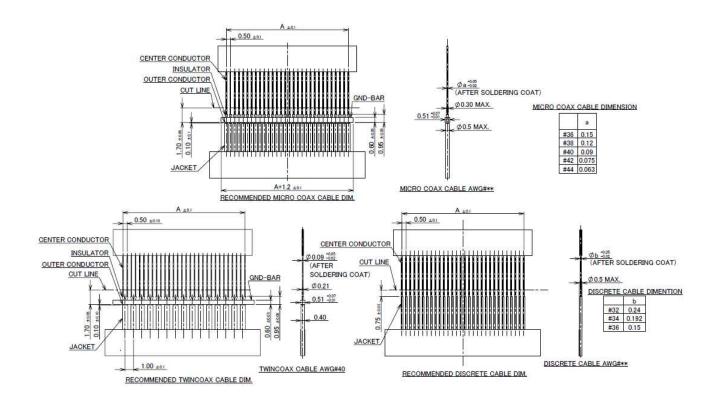
Rev 33



I-PEX

Plug for Cable Assembly

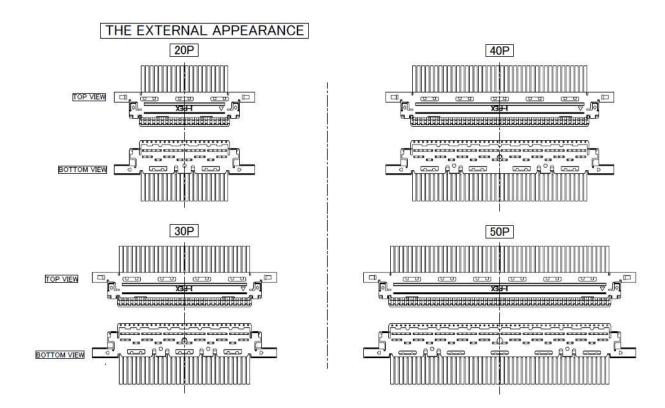




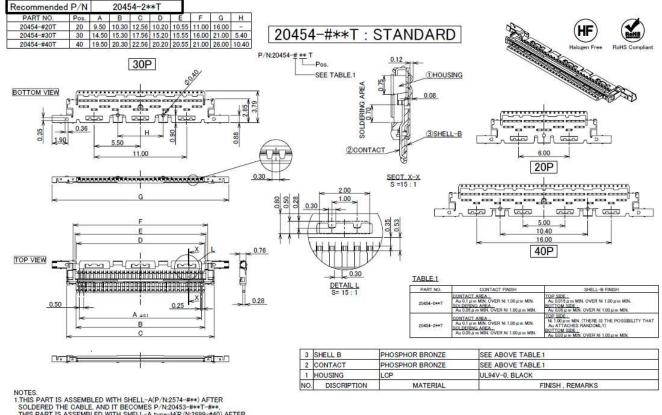
I-PEX

Rev.33

Plug for Cable Assembly

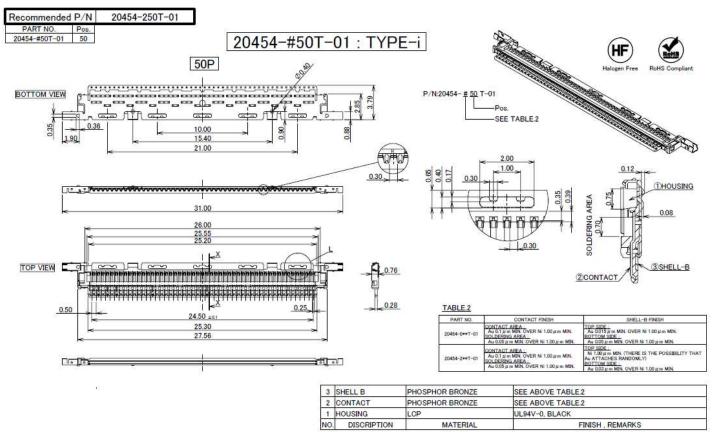


Plug Housing Assembly



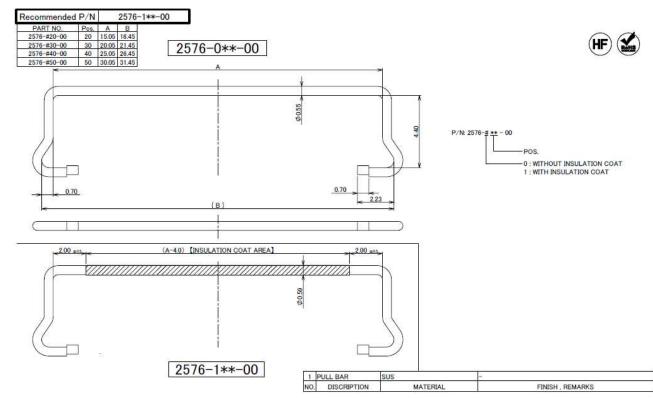
NOTES. 1.THIS PART IS ASSEMBLED WITH SHELL-A(P/N:2574-#**) AFTER SOLDERED THE CABLE, AND IT BECOMES P/N:2043-#***-#**. THIS PART IS ASSEMBLED WITH SHELL-A type-H(P/N:2699-#40) AFTER SOLDERED THE CABLE, AND IT BECOMES P/N:20508-0407-#*. THIS PART IS ASSEMBLED WITH SHELL-A(P/N:2574-#**) AND ALIGNMENT COVER(P/N:2658-0**) AFTER SOLDERED THE CABLE, AND IT BECOMES P/N:20492-1**T.

Plug Housing Assembly



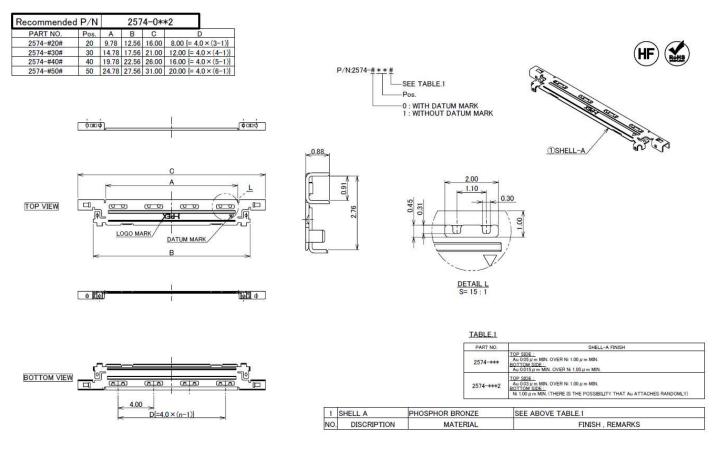
Rev.20

<u>Pull Bar</u>



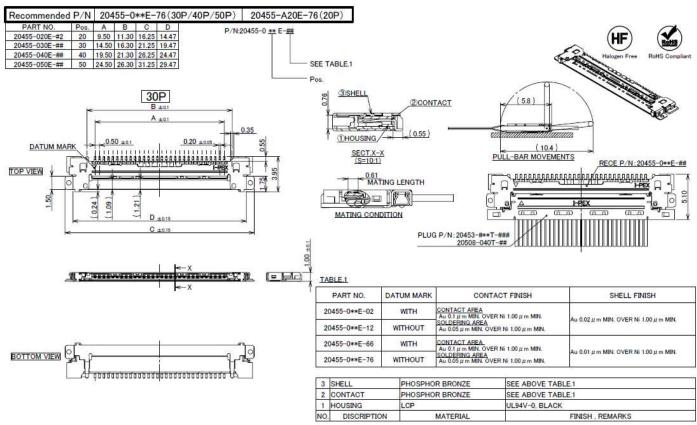
I-PEX

<u>Shell-A</u>

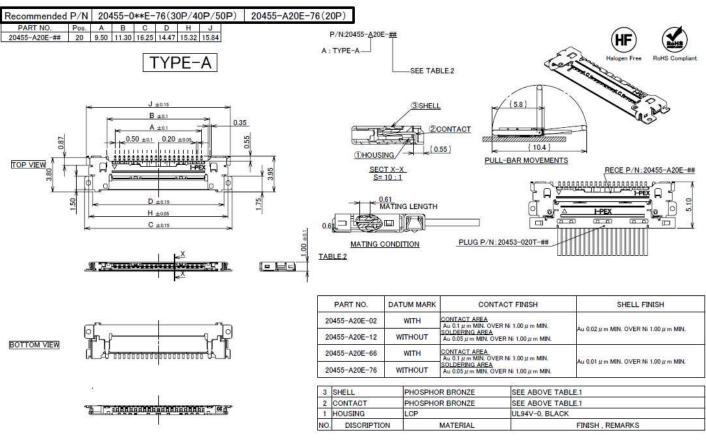


Rev.14

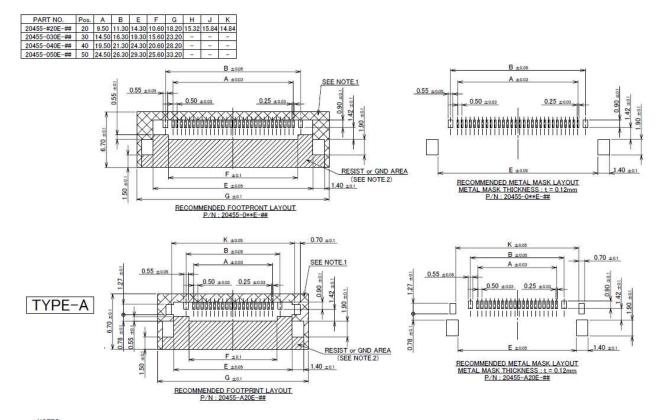
Receptacle Assembly



Receptacle Assembly



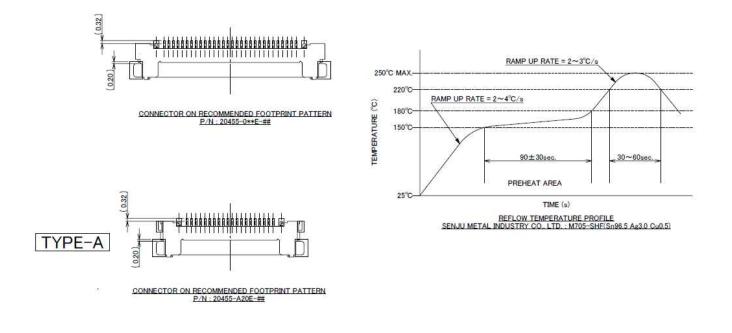
Rev 29



NOTES. 1. IN CASE OF PLUG WITH PULL-BAR. 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# 38, 34, 32 TWINCOAX: AWG# 40			
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#42] PER CONTACT/UP TO 50 CONTACTS 0.5A AC/DC [AWG#30] PER CONTACT/UP TO 14 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT/UP TO 14 CONTACTS 1.0A AC/DC [AWG#36] PER CONTACT/UP TO 6 CONTACTS 1.0A AC/DC [AWG#32] PER CONTACT/UP TO 70 CONTACT/UP TO 70 CONTACT			
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)			
OPERATING HUMIDITY	85% R.H. MAX.(NON-CONDENSING)			
CONTACT RESISTANCE	INITIAL : 140mohm MAX.(AWG#32) / AFTER TEST : ⊿40mohm MAX. 180mohm MAX.(AWG#34) 215mohm MAX.(AWG#36) 380mohm MAX.(AWG#36) 600mohm MAX.(AWG#40) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44)			
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : 240mohm MAX.			
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min			
DURABILITY	30 CYCLES			
MATING FORCE (INITIAL / AFTER TEST)	20P : 9,45N MAX. 30P : 12,15N MAX. 40P : 16,20N MAX. 50P : 20,25N MAX.			
UNMATING FORCE (INITIAL / AFTER TEST)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.			
CABLE RETENTION FORCE	20P : 9.80N MIN. 30P : 14.70N MIN. 40P : 19.60N MIN. 50P : 24.50N MIN.			
COPLANARITY	0.10 MAX.			
PRODUCT SPECIFICATION	PRS-1427			
TEST REPORT	TR-08047 (20455-#**E-#2) TR-13084 (20455-#**E-#6, 20455-0**E-#8)			
PACKING STANDARD	300-643			
INSTRUCTION MANUAL	HIM-08004			
APPEARANCE CRITERIA NO.	QLS-A***			



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> Contact your sales representative or more detailed information.

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