## **CABLINE®- VS**

VESA标准款连接器,适用于高速数据传输(20+ Gbps/lane), 机械锁扣, 0.5 mm 间距,水平对插款的极细同轴线连接器

#### **Product Specifications:**

	Mating type		Horizontal		
	Board Pitch (mm)		0.5		
	Wiping Length (mm)		0.61		
	Mated size (mm)	Height	1.0 +/- 0.1		
		Width	Formula: 7.55 + (0.5*?p)		
		Depth	5.8		
	Pin Counts	Range	Up to 50		
		Available	20, 30, 40, 50		

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), PCIe (16 GT/s), eDP (8.1 Gbps)



#### \*如您需要了解未列出或不在范围内的Pin数,请咨询我们。

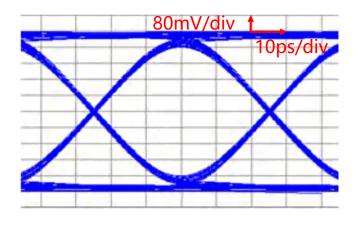
## ▶ 电子设备内部的高速率传输的理想之选USB4 / Thunderbolt 4 (20 Gbps/lane)

Applicable Cable Size:

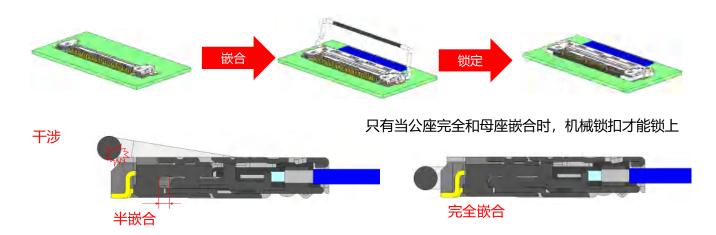
USB4/Thunderbolt 4 (20 Gbps/lane)

眼图 (微分) 比特率: 20 Gbps

上升时间: 30ps (10-90%) 输入电压: 800mVp-p \*更多测试细节,请联系I-PEX 连接器。



#### 机械锁扣防止连接器不完全嵌合/未嵌合及脱落



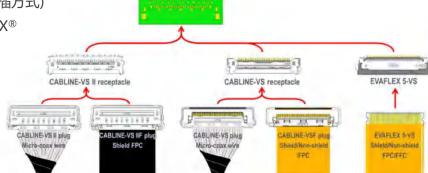
## ▶ I-PEX VS系列多款连接器可选

I-PEX VS 系列 (0.5 mm 间距, 水平对插方式)

CABLINE-VS, VS II 的母座和 EVAFLEX® 5-VS 可以安装在相同布局的PCB上。

CABLINE-VS 母座:

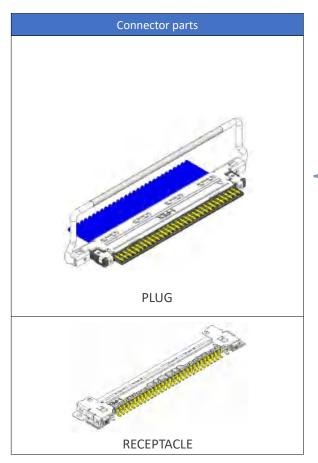
VESA 标准连接器,Notebook PC panel 连接器**占较大市场份额**。

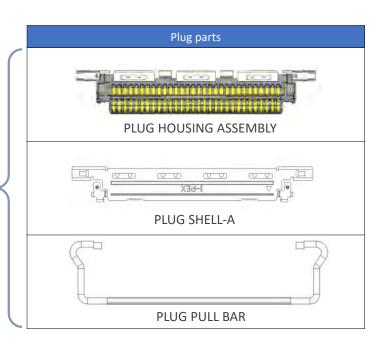




# **Component Parts Details**

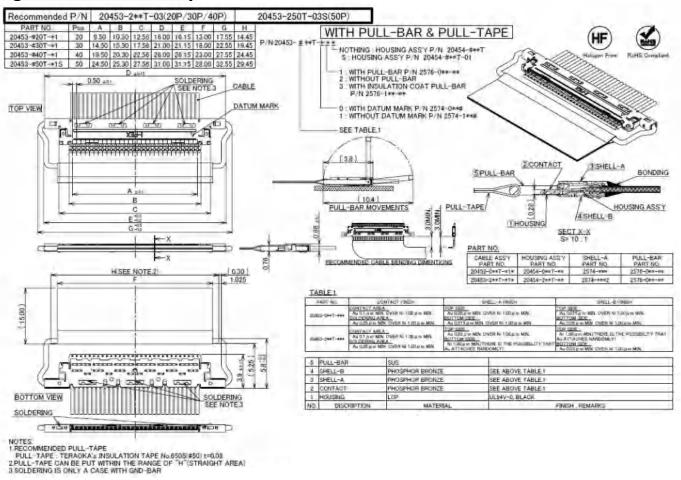
## **Component Parts**

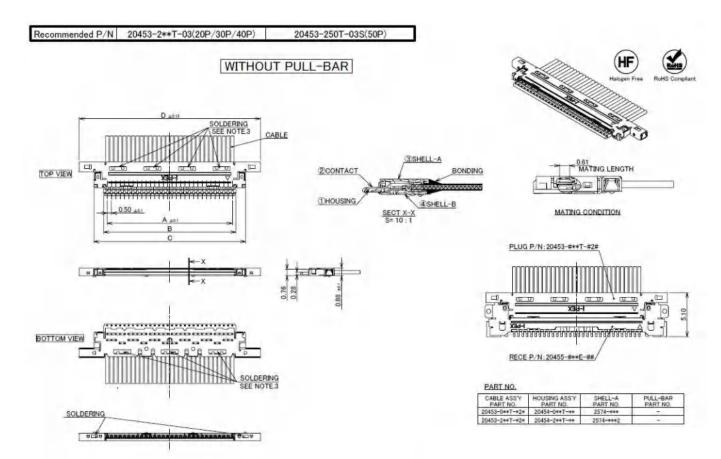






#### **Plug for Cable Assembly**

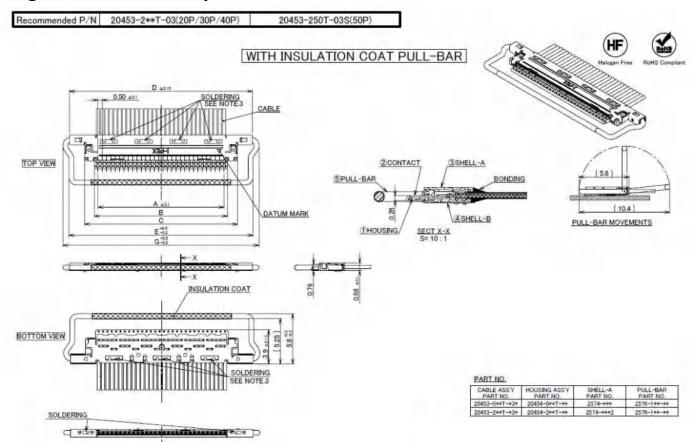


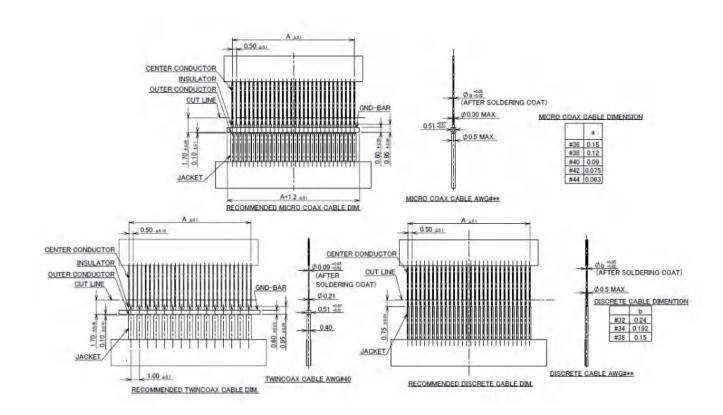




Rev 33

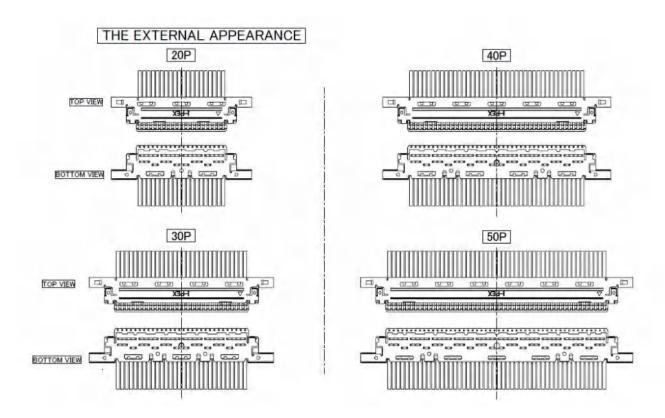
## **Plug for Cable Assembly**





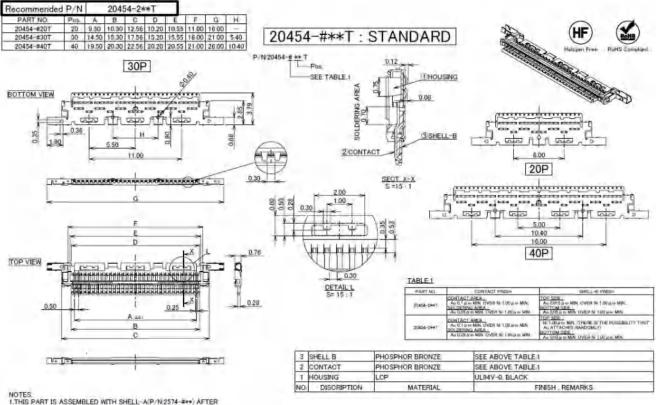


## **Plug for Cable Assembly**



Rev.33

## **Plug Housing Assembly**

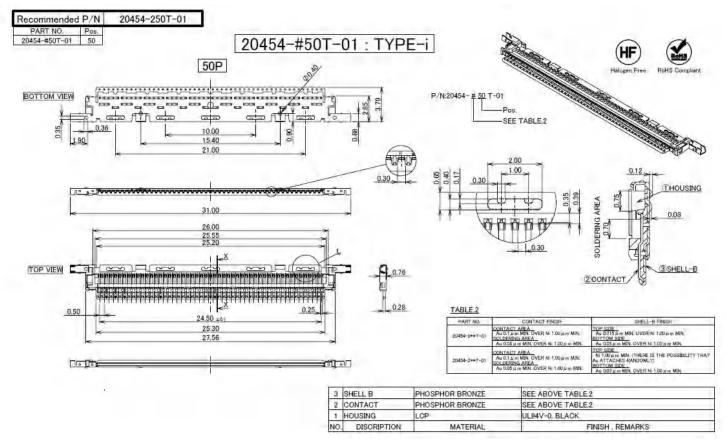


NOTES

1. THIS PART IS ASSEMBLED WITH SHELL-A(P/N:2574-±\*\*) AFTER
SOLDERED THE CABLE, AND IT BECOMES P/N:20453-#\*\*T-#\*\*.
THIS PART IS ASSEMBLED WITH SHELL-A type-H(P/N:2989-#40) AFTER
SOLDERED THE CABLE, AND IT BECOMES P/N:20509-040T-#\*.
THIS PART IS ASSEMBLED WITH SHELL-A(P/N:2574-#\*\*) AND
ALIGNMENT COVER!P/N:2569-0\*\*) AFTER SOLDERED THE CABLE,
AND IT BECOMES P/N:20492-1\*\*T.

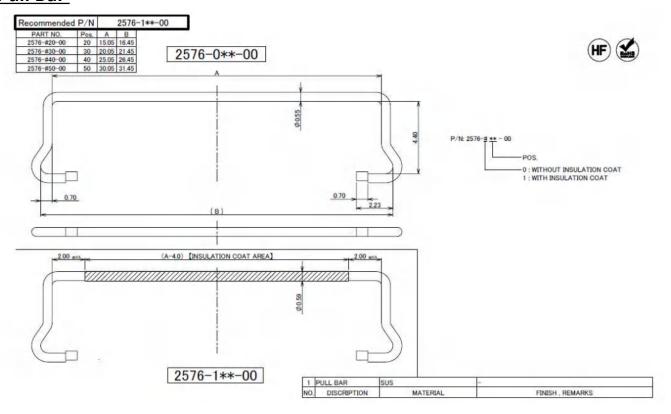


#### **Plug Housing Assembly**



Rev.20

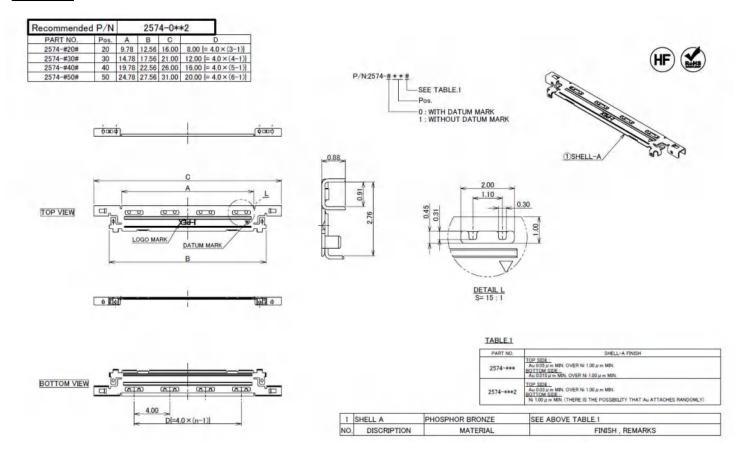
#### **Pull Bar**





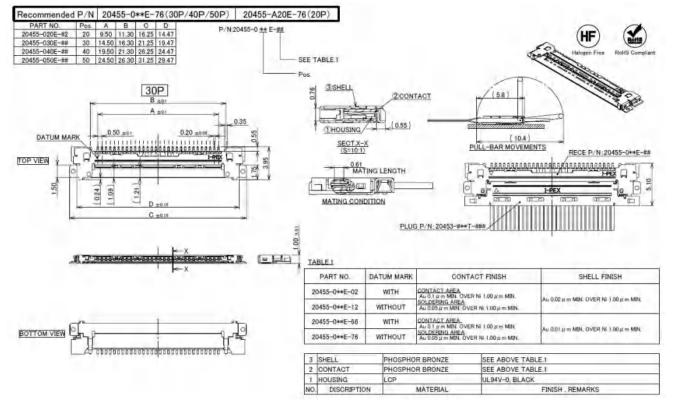


#### Shell-A

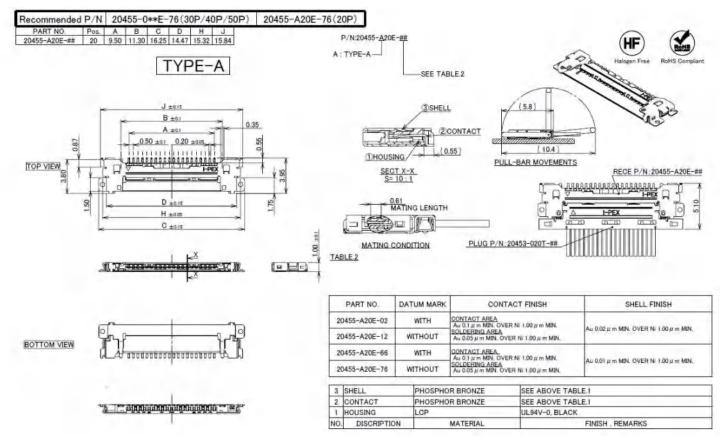


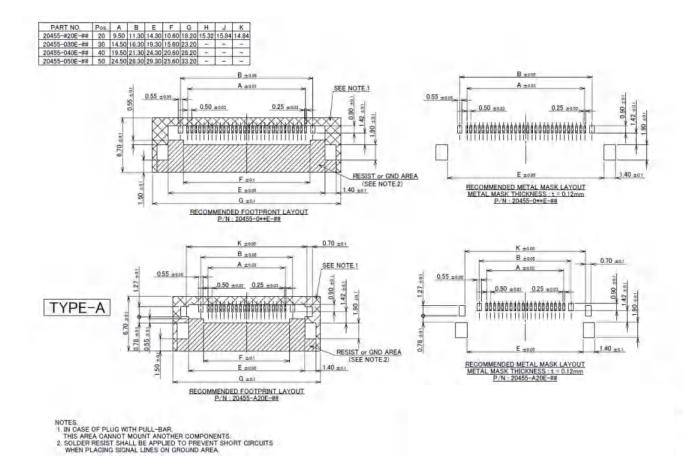
Rev.14

## **Receptacle Assembly**



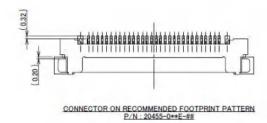
## **Receptacle Assembly**

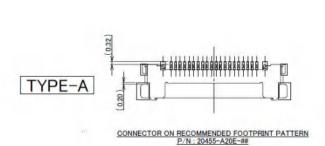


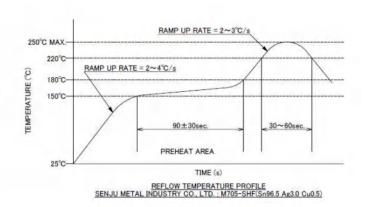




## **Receptacle Assembly**







ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO COAX : AWG# 44, 42, 40, 38, 36 DISCRETE : AWG# 36, 34, 32 TWINCOAX : AWG# 40
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 50 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 50 CONTACTS 0.3A AC/DC [AWG#32] PER CONTACT PIN/UP TO 50 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 14 CONTACTS 0.8A AC/DC [AWG#38] PER CONTACT PIN/UP TO 14 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 10 CONTACTS 1.0A AC/DC [AWG#32] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG#32] PER CONTACT PIN/UP TO 6 CONTACTS TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPURECHER RISE MAY AFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% R.H. MAX.(NON-CONDENSING)
CONTACT RESISTANCE	1NITIAL: 140mohm MAX.(AWG#32) / AFTER TEST: △40mohm MAX. 180mohm MAX.(AWG#34) 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 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-#8)
PACKING STANDARD	300-643
INSTRUCTION MANUAL	HIM-08004
APPEARANCE CRITERIA NO.	OLS-A***





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