# **EVAFLEX® 5-HD**

Fully-shielded, high-speed, auto-locking, horizontal mate, 0.5 mm pitch shielded FFC/FPC connector

Product Spec	ifications:	
Board Pitch (mm)		0.5
Wiping Length (mm)		1
Size (mm)	Height	2.00 +/- 0.20
	Width	Formula: 5.2 + (0.5*?p)
	Depth	8.43 +/- 0.30
Pin counts	Range	10 - 40
	Available	24

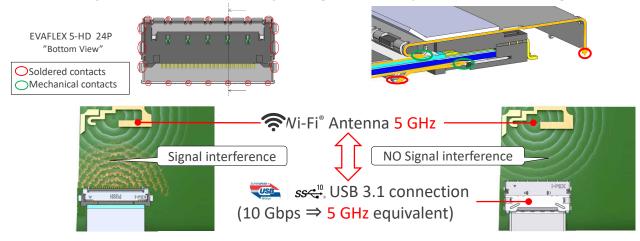
Applicable FPC/FFC:		
FPC/FFC Type	Shielded FFC & FPC	
FPC/FFC Contact Point	Тор	
FDC/FFCTh:-l/	0.3 +/- 0.03 Contact	
FPC/FFC Thickness (mm)	0.5 +/- 0.03 Ground	

Applicable Standards (Reference Only):

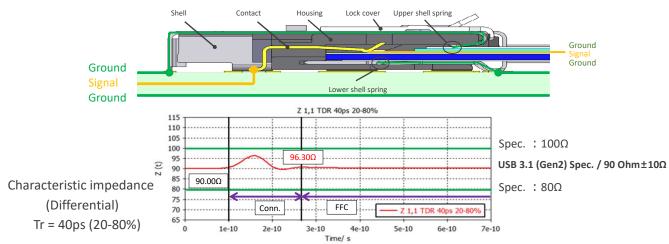
USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps) USB 3.1
Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)

<sup>\*</sup> Please inquire for pin counts not listed or outside of the pin count range.

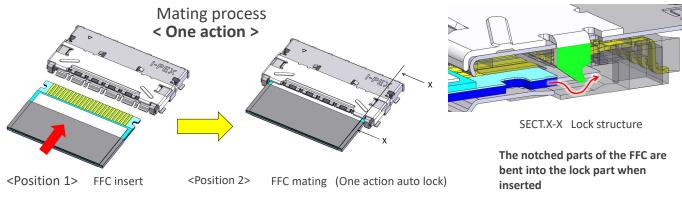




Designed for high-speed transmission (10+ Gbps USB® 3.1 Gen 2)



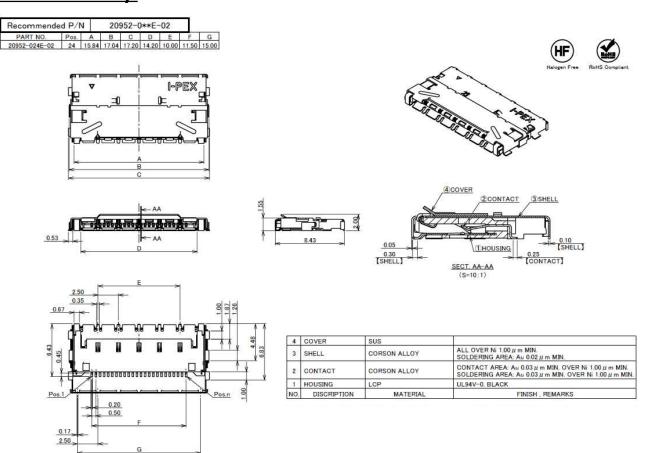
#### Operator friendly auto-locking design, ideal for hand or robotic assembly





# **Component Parts Details**

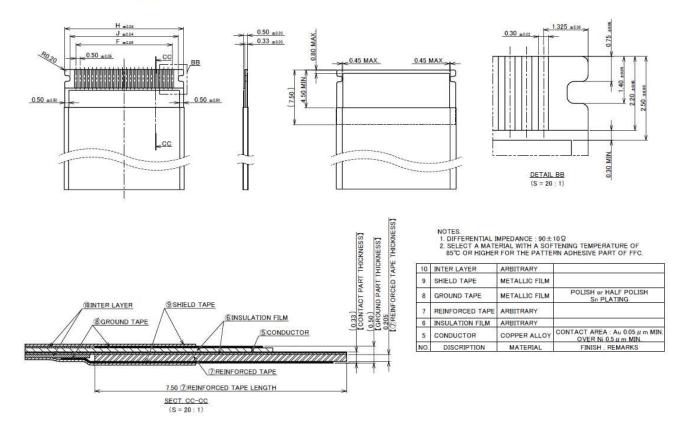
#### **Connector Assembly**





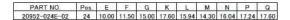
#### **Connector Assembly**

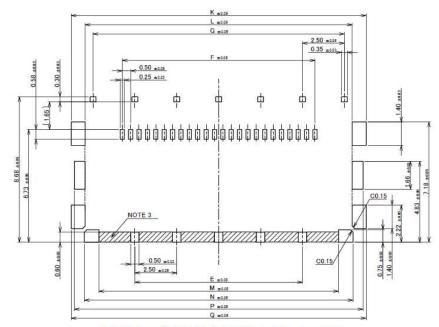
PART NO. Pos. F H J 20952-024E-02 24 11.50 14.15 12.90



Rev.5

## **Plug Housing Assembly**



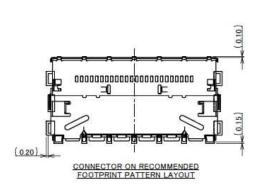


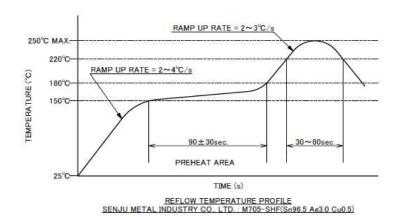
RECOMMENDED PCB & METALMASK LAYOUT
THICKNESS t=0.12

NOTES.
3. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

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# **Connector Assembly**





Rev.5

## **Plug Housing Assembly**

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.30A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K (-40°C~+85°C)
OPERATING HUMIDITY	85% RH. MAX. (NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : ∠140mohm MAX.
INSULATION RESISTANCE	INITIAL: 500Mohm MIN. / AFTER TEST: 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC 250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	24P : 22.00 N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	24P : 2.30 N MIN.
FFC/FPC RETENTION FORCE (INITIAL / AFTER TEST)	24P : 8.50 N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2645
TEST REPORT	TR-20006
PACKING STANDARD	PST-19012
INSTRUCTION MANUAL	HIM-19004
APPEARANCE CRITERIA No.	QLS-A***





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