

EVAFLEX® 5-HD

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

Product Specifications:

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	Top
FPC/FFC Thickness (mm)	0.3 +/- 0.03 Contact 0.5 +/- 0.03 Ground

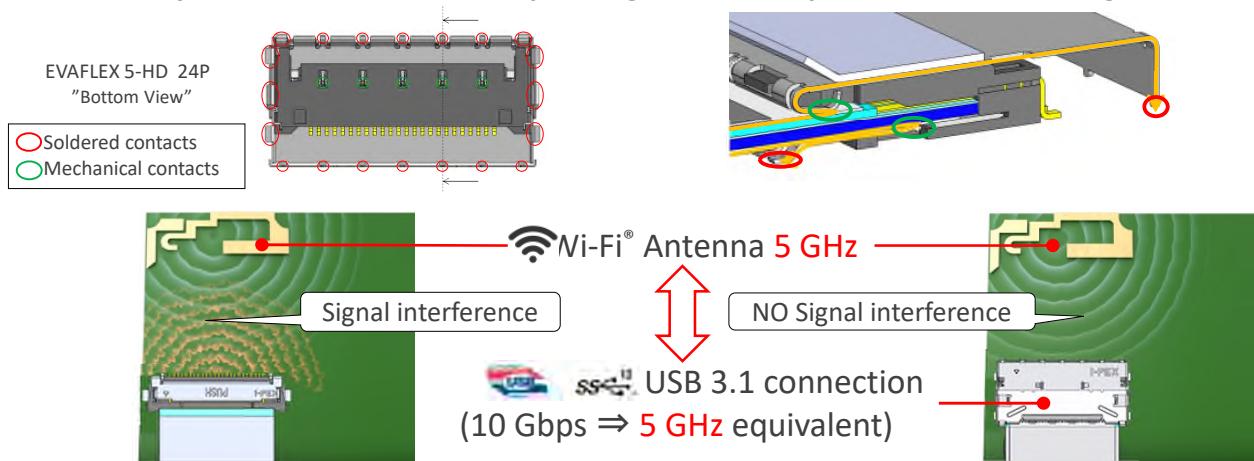
Applicable Standards (Reference Only):

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)

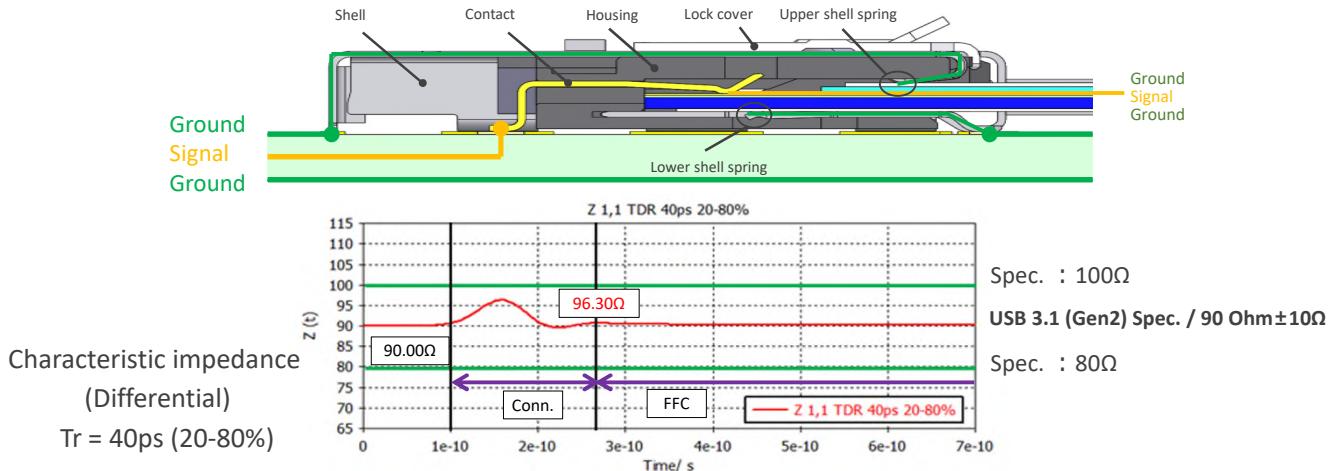
* Please inquire for pin counts not listed or outside of the pin count range.



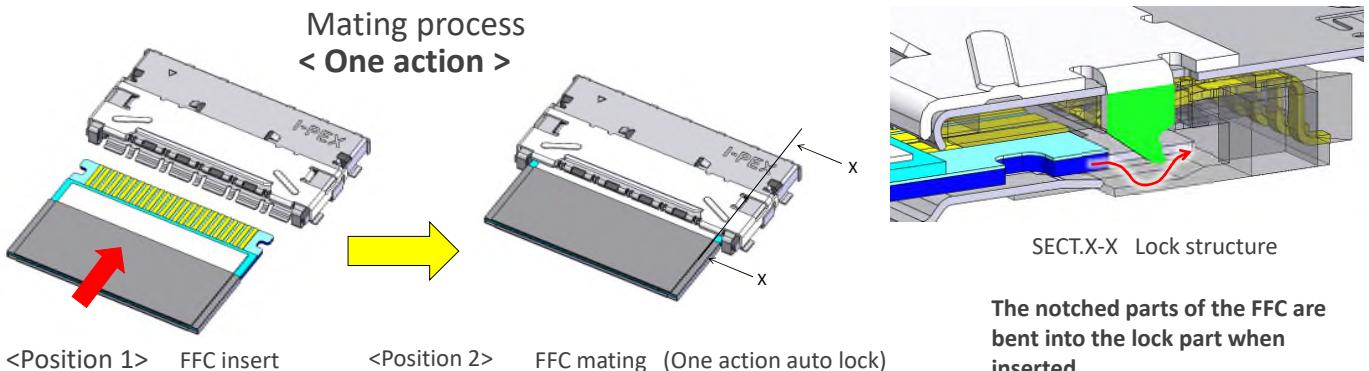
► ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage



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



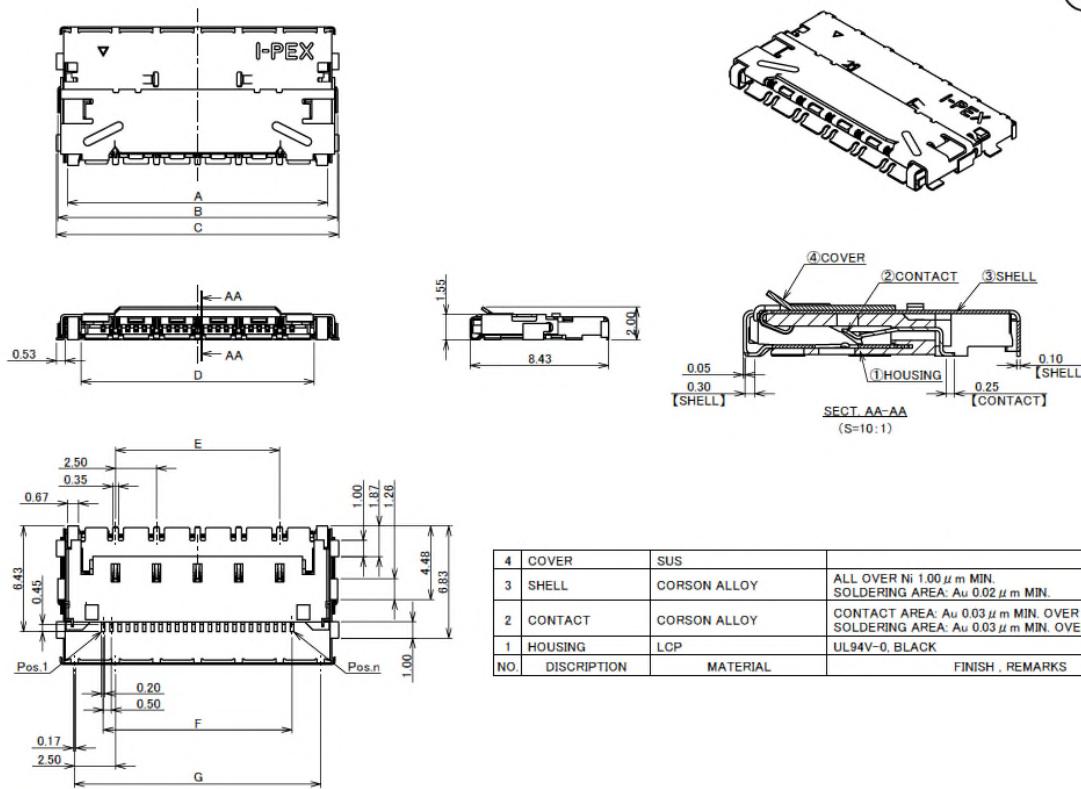
► Operator friendly auto-locking design, ideal for hand or robotic assembly



Component Parts Details

Connector Assembly

Recommended P/N		20952-0**E-02						
PART NO.	Pos.	A	B	C	D	E	F	G
20952-024E-02	24	15.84	17.04	17.20	14.20	10.00	11.50	15.00

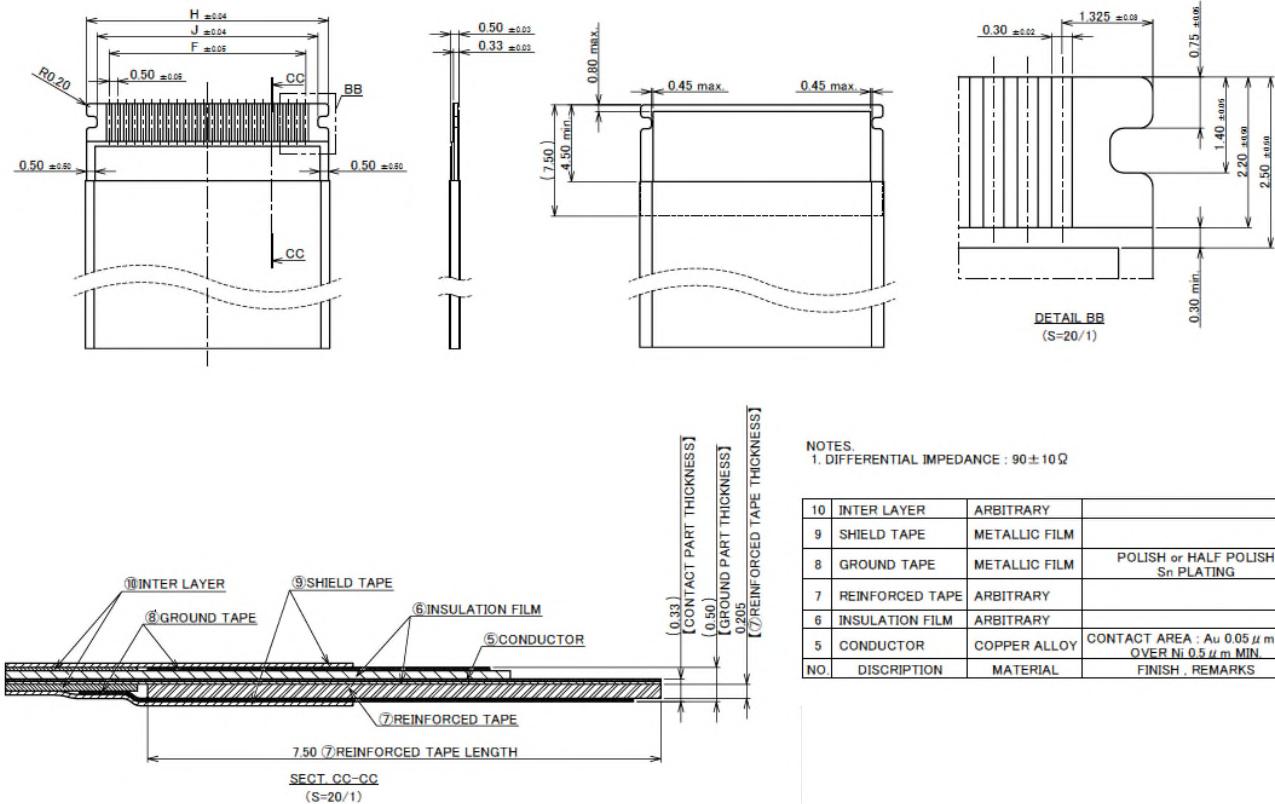


NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
4	COVER	SUS	ALL OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.02 μ m MIN.
3	SHELL	CORSON ALLOY	CONTACT AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCUSSION	MATERIAL	FINISH, REMARKS

Rev.3

Connector Assembly

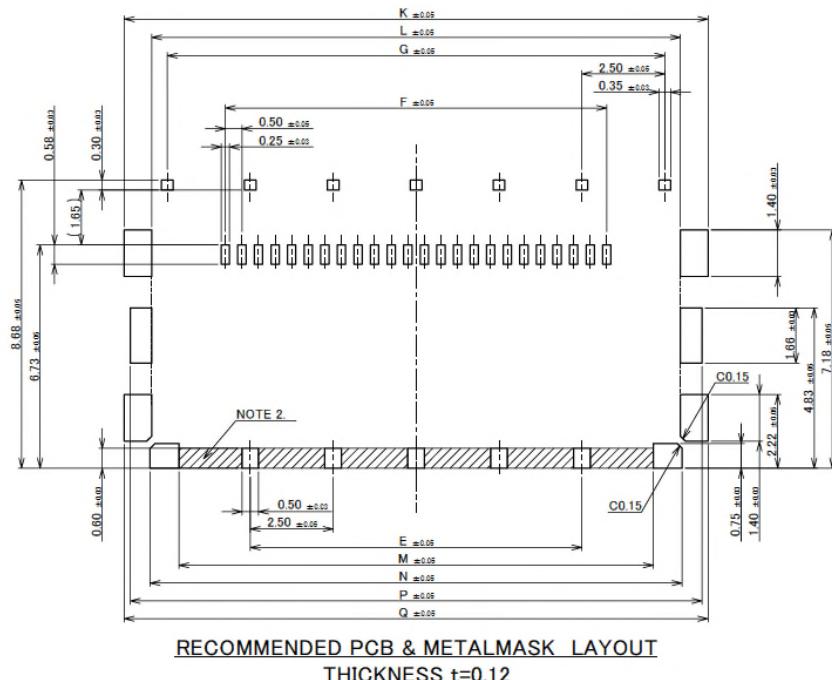
PART NO.	Pos.	F	H	J
20952-024E-02	24	11.50	14.15	12.90



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Plug Housing Assembly

PART NO.	Pos.	E	F	G	K	L	M	N	P	Q
20952-024E-02	24	10.00	11.50	15.00	17.60	15.94	14.30	16.04	17.24	17.60

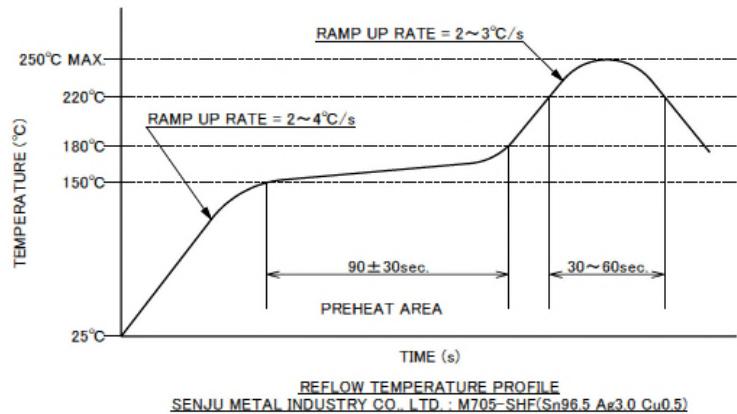
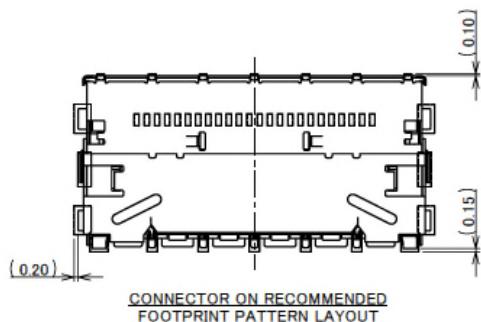


NOTES.

2. HATCHING AREA:
SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES
ON THIS FOOTPRINT PATTERN PROHIBITION AREA.

Rev.3

Connector Assembly



Plug Housing Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.30A AC/DC
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. 24P : 2.30 N MIN.
UNMATING FORCE (INITIAL / AFTER TEST)	24P : 8.50 N MIN.
FFC/FPC RETENTION FORCE (INITIAL / AFTER TEST)	0.10 MAX.
COPLANARITY	PRS-2645
PRODUCT SPECIFICATION	TR-20006
TEST REPORT	PST-19012
PACKING STANDARD	HIM-19004
INSTRUCTION MANUAL	QLS-A***
APPEARANCE CRITERIA No.	

Rev.3

Rev.3



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