

EVAFLEX® 5-SE

Auto-Lock, 수평 결합, 0.5 mm Pitch, FFC/FPC 커넥터

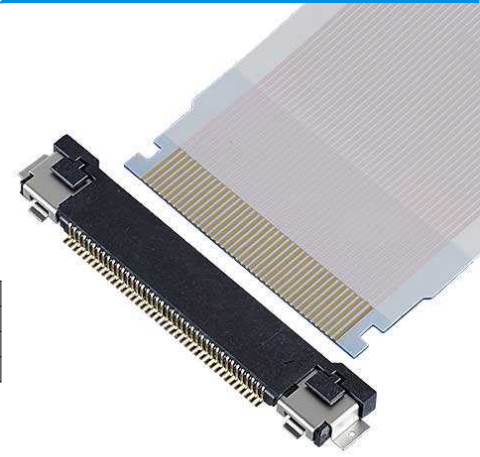
Product Specifications:

Board Pitch (mm)	0.5	
Wiping Length (mm)	1.45	
Size (mm)	Height	2.40 +/- 0.20
	Width	Formula: 13.10 + (0.5*?p)
	Depth	5.90 +/- 0.20
Pin counts	Range	10 - 60
	Available	10, 15, 22, 30, 40, 45, 50, 60

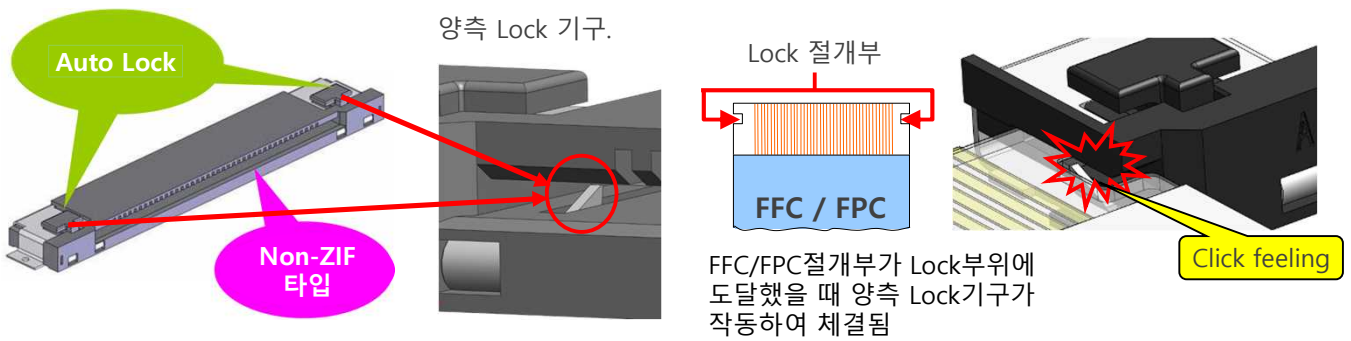
*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.

Applicable FPC/FFC:

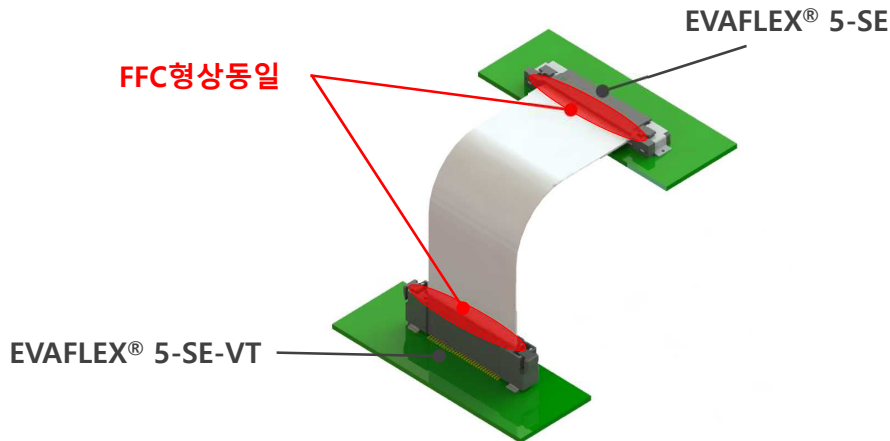
FPC/FFC Type	Non-shielded FFC/FFC
FPC/FFC Contact Point	Top
FPC/FFC Thickness (mm)	FFC : 0.30 +/- 0.05
	FPC : 0.30 +/- 0.03



▶ 체결 작업이 용이한 Auto Lock 디자인. 수작업 또는 로봇에 의한 조립 작업에 최적



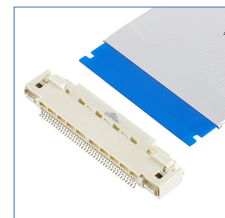
▶ 동일한 FFC가 사용 가능한 Vertical 타입(EVAFLEX® 5-SE-VT) 옵션도 보유



▶ 확장성이 높은 EVAFLEX® 시리즈로 Auto-Lock을 비롯한 다양한 옵션에 대응

고속전송 & 고온대응 커넥터 (125°C) : EVAFLEX® 5-SE-G HT

	EVAFLEX® 5-SE-G HT
Height (mm)	6.60 +/- 01
Operation Temperature	up to 125°C
Reference Performance	V-by-one HS 1.4 (4+ Gbps)

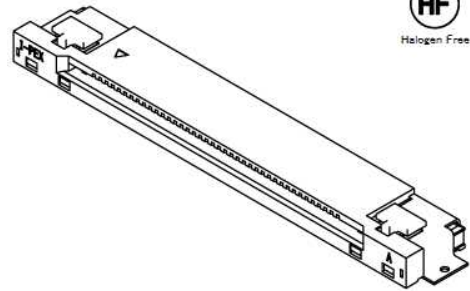
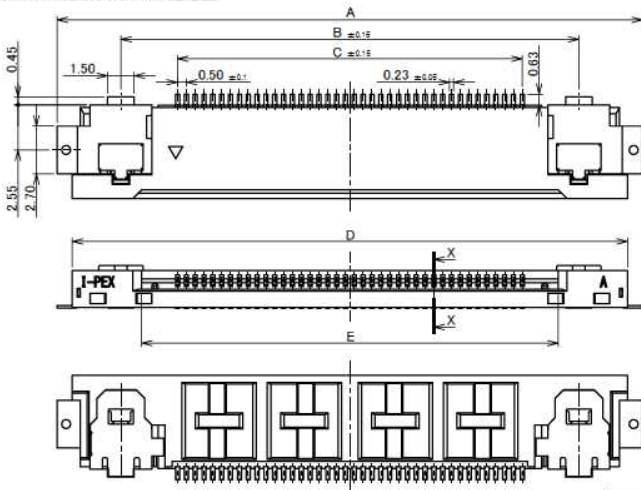


Component Parts Details

Connector Assembly

Recommended P/N	20526-0**E-01					
PART NO	Pos.	A	B	C	D	E
20526-010E-01	10	18.10	10.90	4.50	16.40	8.56
20526-015E-01	15	20.60	13.40	7.00	18.90	11.06
20526-022E-01	22	24.10	16.90	10.50	22.40	14.56
20526-030E-01	30	28.10	20.90	14.50	26.40	18.56
20526-040E-01	40	33.10	25.90	19.50	31.40	23.56
20526-045E-01	45	35.60	28.40	22.00	33.90	26.06
20526-050E-01	50	38.10	30.90	24.50	36.40	28.56
◆20526-055E-01	55	40.60	33.40	27.00	38.90	31.06
20526-060E-01	60	43.10	35.90	29.50	41.40	33.56

◆ MARK MEANS NOT AVAILABLE

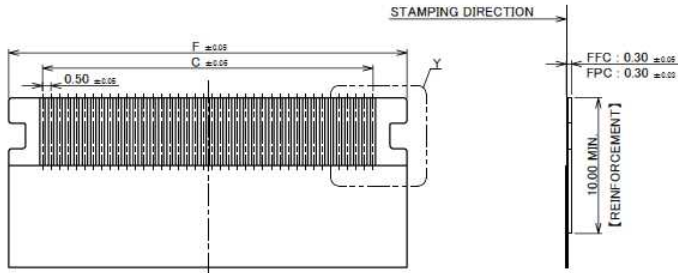


3	HOLD DOWN	PHOSPHOR BRONZE	SOLDERING AREA : Sn 2.00 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.10 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK
NO	DISCRIPTION	MATERIAL	FINISH . REMARKS

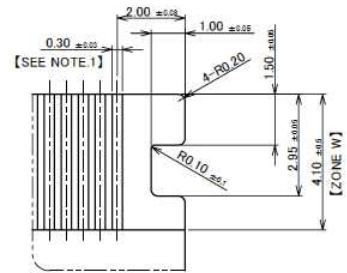
Connector Assembly

Recommended P/N		20526-0**E-01	
PART NO.	Pos.	C	F
20526-010E-01	10	4.50	8.50
20526-015E-01	15	7.00	11.00
20526-022E-01	22	10.50	14.50
20526-030E-01	30	14.50	18.50
20526-040E-01	40	19.50	23.50
20526-045E-01	45	22.00	26.00
20526-050E-01	50	24.50	28.50
◆20526-055E-01	55	27.00	31.00
20526-060E-01	60	29.50	33.50

◆MARK MEANS NOT AVAILABLE



RECOMMENDED FFC/FPC LAYOUT



DETAIL Y (S=10/1)

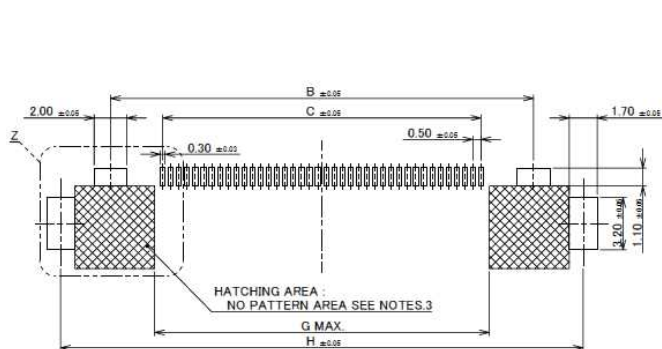
NOTES.

- CONTROL DIMENSION OF [ZONE W] WITH IN 0.30 ± 0.03
- SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

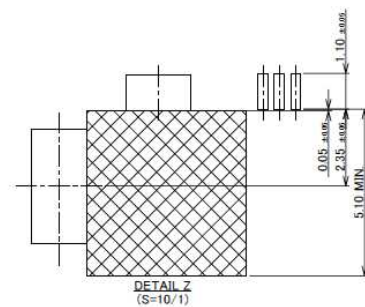
Rev.12

Recommended P/N		20526-0**E-01			
PART NO.	Pos.	B	C	G	H
20526-010E-01	10	10.90	4.50	5.50	17.00
20526-015E-01	15	13.40	7.00	8.00	19.50
20526-022E-01	22	16.90	10.50	11.50	23.00
20526-030E-01	30	20.90	14.50	15.50	27.00
20526-040E-01	40	25.90	19.50	20.50	32.00
20526-045E-01	45	28.40	22.00	23.00	34.50
20526-050E-01	50	30.90	24.50	25.50	37.00
◆20526-055E-01	55	33.40	27.00	28.00	39.50
20526-060E-01	60	35.90	29.50	30.50	42.00

◆MARK MEANS NOT AVAILABLE



RECOMMENDED PCB & METALMASK LAYOUT
METAL MASK THICKNESS : $t=0.12$



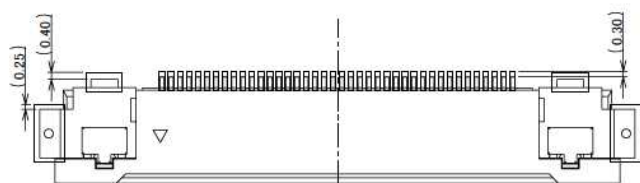
DETAIL Z (S=10/1)

NOTES.

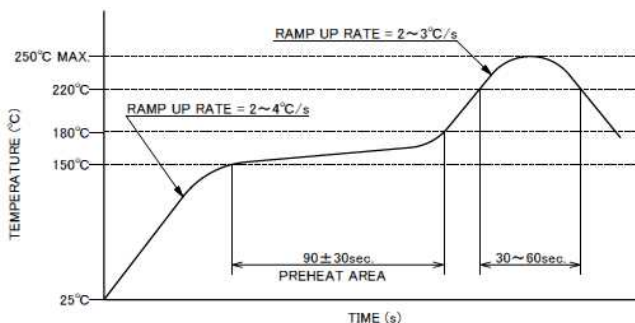
- HATCHING AREA CANNOT MOUNT ANOTHER COMPONENTS.
- SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOTPRINT PATTERN PROHIBITION AREA.

Rev.12

Connector Assembly



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.12

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC (PER CONTACT) ※(AVAILABLE UP TO 15PIN) / 0.35A AC/DC(PER CONTACT) ※(AVAILABLE FOR ALL PIN)
OPERATING TEMPERATURE	Using FFC : 233~358K(-40°C~+85°C) Using FPC : 233~398K(-40°C~+125°C)
OPERATING HUMIDITY	85% MAX(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 70mohm 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)	10P : 6.0N MAX. 15P : 9.0N MAX. 22P : 13.2N MAX. 30P : 18.0N MAX. 40P : 24.0N MAX. 45P : 27.0N MAX. 50P : 30.0N MAX. 55P : 33.0N MAX. 60P : 36.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : 0.90N MIN. 15P : 1.35N MIN. 22P : 1.98N MIN. 30P : 2.70N MIN. 40P : 3.60N MIN. 45P : 4.05N MIN. 50P : 4.50N MIN. 55P : 4.95N MIN. 60P : 5.40N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-1562
TEST REPORT	TR-10048
PACKING STANDARD	300-861
INSTRUCTION MANUAL	HIM-10008
APPEARANCE CRITERIA No.	QLS-A***

Rev.12

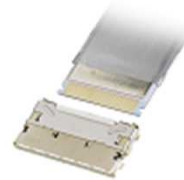
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Power



High-Power



I/O (Input/Output)



Quick charge

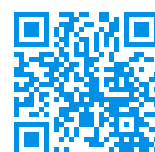


Effector



Custom Connectors Available

Inquiry



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