

# 0.2 mm Pitch Shielded Back-Lock FPC Connector

## FFX2S Series

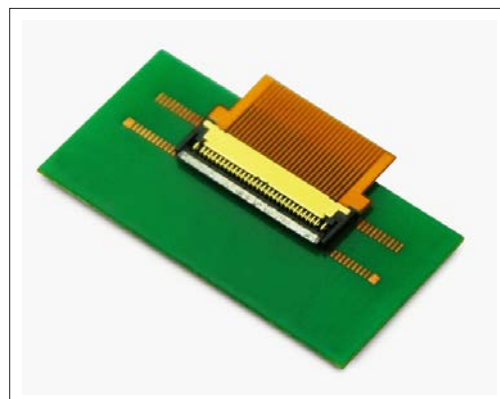


### OUTLINE

FFX2S series is a FPC connector which is 0.2mm contact pitch and 1.05mm height and attached with metal shield.

Applicable FPC is 0.12mm thickness and 0.4mm pitch conductors on both sides.

By locating 0.4mm pitch contacts on both upper and lower side, FPC space is reduced to an equivalent 0.2mm contact pitch.



### FEATURE

- The metal shield is attached to improve the EMI performance.
- FFX2S support high speed transmission which results in an excellent solution for applications using ultrafine coaxial cables.
- The metal shield provides a grounding path between the conductors and PCB.
- Original "double layer contact" design enables an effective pitch of 0.2mm.
- Original cable lock mechanism provides positive retention of the FPC.
- Back-lock structure ensures retention from inadvertent from upward pulling of the FPC.
- Connectors delivered with the lock lever opened. Time saving for FPC inserting operation.
- Nickel barrier prevents solder wicking.

### APPLICATIONS

Notebook PC, SSD



### SPECIFICATIONS

Rated Voltage	50V AC(r.m.s.)
Rated Current	0.2A / Contact
Dielectric Withstand Voltage	200V AC(r.m.s.) / 1 minute
Insulation Resistance	100 MΩ min. at 500V DC
Contact Resistance	50m Ω max.

Both FPC and ultrafine coaxial harness are mateable.

### MATERIAL/FINISH



Item	Material / Finish
Shield	Copper Alloy / Au(Flash) over Ni Plating
Cable Lock	
Contact	
Lock Lever	PPS Resin (UL94V-0) / Black
Housing	LCP Resin (UL94V-0) / Black

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Please verify the latest specifications with our drawings.

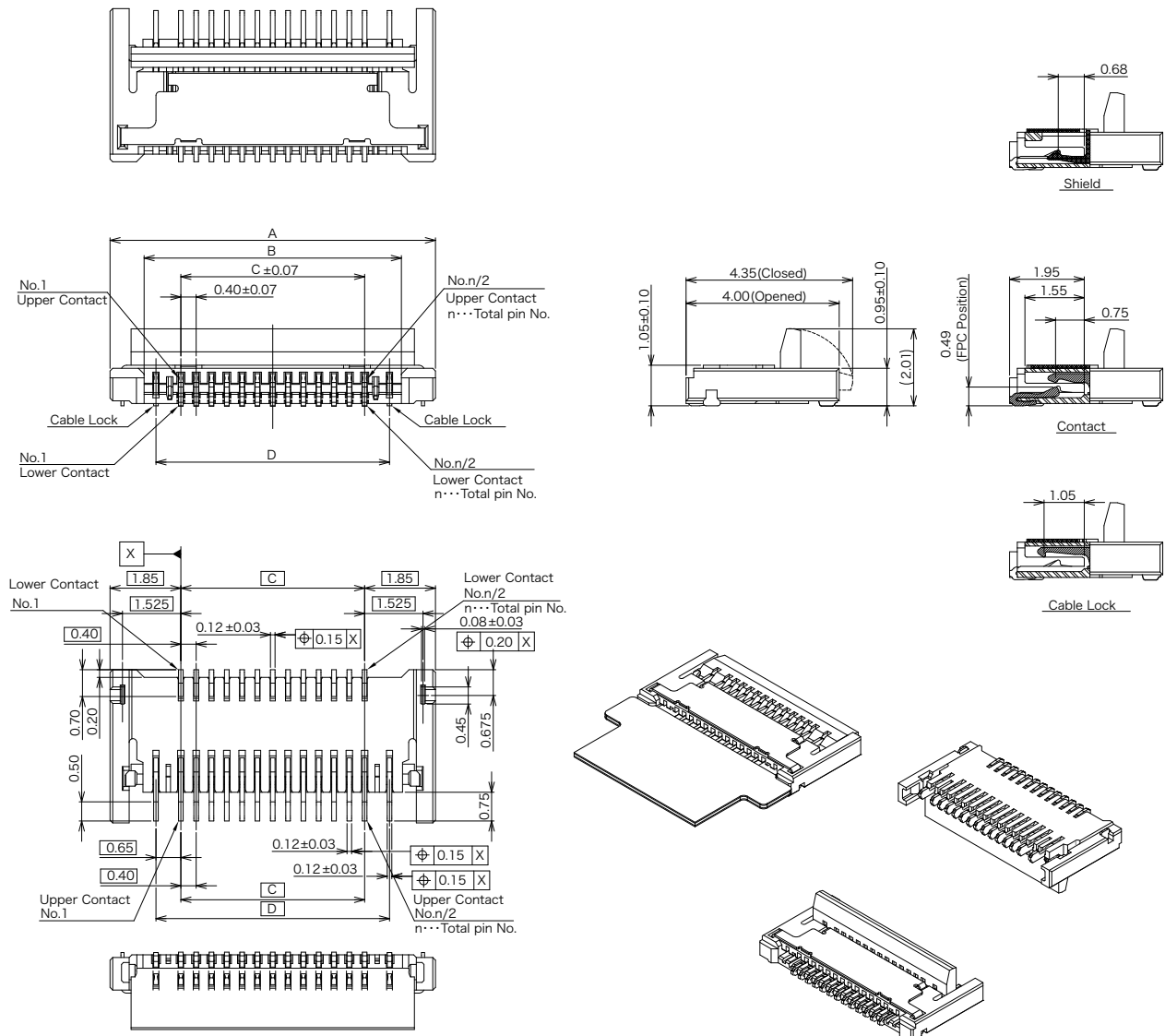
# ▶ 0.2mm Pitch FPC Connector

FFX2S-       A-R2    CL-3J

①                      ②                      ③    ④    ⑤                      ⑥    ⑦    ⑧                      ⑨

① Series	FFX2S
② Number of Contact	Refer to Table -1
③ Contact Position	A : Double Layer Contact
④ Contact Style	R : Right Angle
⑤ Applicable PCB Thickness	2 : Double-sided FPC 0.12±0.02
⑥ Contact Plating	1 : Au(Flash) over Ni Plating
⑦ Lock Lever	C : C Type
⑧ Cable Lock	L : with Cable Lock
⑨ Material	3J : Halogen-free,PFAS Free

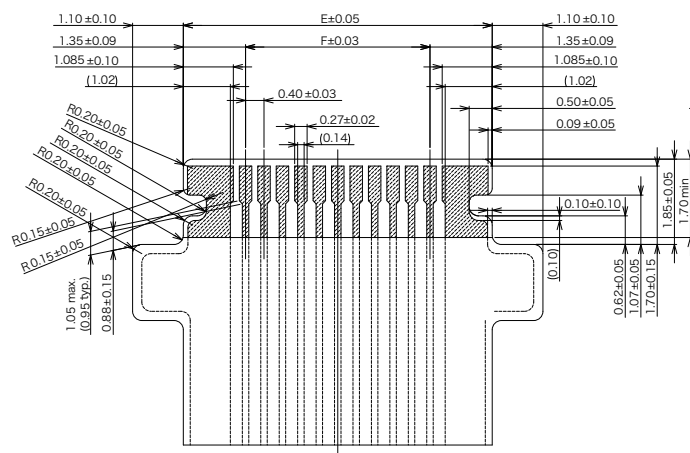
**Note** Please do not close a lock lever without inserting FPC.  
Otherwise, contact gap will become narrow and FPC insertion force will be higher.



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Front View



Technical drawing showing a cross-section of a cable assembly. The drawing includes dimensions for various components and tolerances:

- Overall width:  $1.35 \pm 0.09$
- Inner width:  $1.085 \pm 0.10$
- Connector area width:  $0.12 \pm 0.02$
- Inner width (Connector area):  $0.09 \pm 0.05$
- Distance between conductors:  $0.40 \pm 0.03$
- Conductor diameter:  $0.27 \pm 0.02$
- Conductor spacing (dashed line):  $(0.14)$
- Inner width (right):  $1.085 \pm 0.10$
- Inner width (right):  $1.35 \pm 0.09$
- Inner width (right):  $1.02$
- Inner width (right):  $0.10 \pm 0.05$
- Distance between conductors (right):  $0.10$
- Distance between conductors (right):  $1.65 \pm 0.10$
- Distance between conductors (right):  $(3.50)$
- Distance between conductors (right):  $(1.15 \pm 0.25)$
- Distance between conductors (right):  $1.05 \text{ max}$
- Distance between conductors (right):  $(0.95)$
- Distance between conductors (right):  $0.88 \pm 0.10$
- Distance between conductors (right):  $0.70 \pm 0.20$

Part Number	Number of Contact(n)	Number of Contact		A	B	C	D	E	F
		Upper Contact	Lower Contact						
FFX2S-58A-R21CL-3J	58	29	29	14.90	13.20	11.20	12.50	13.10	10.40

## Package Specifications

### Reel Dimensions

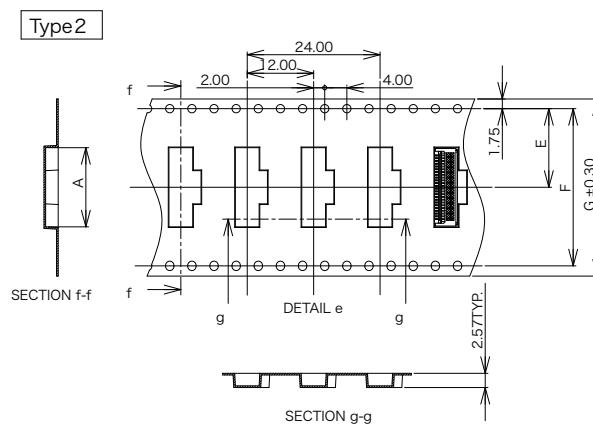
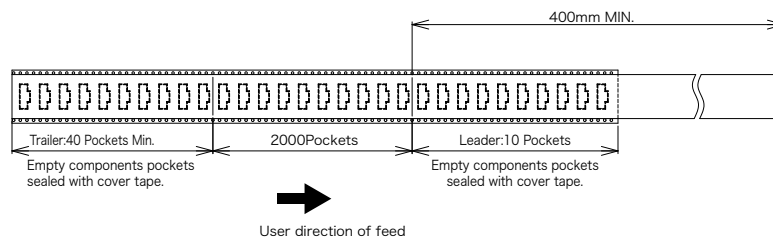
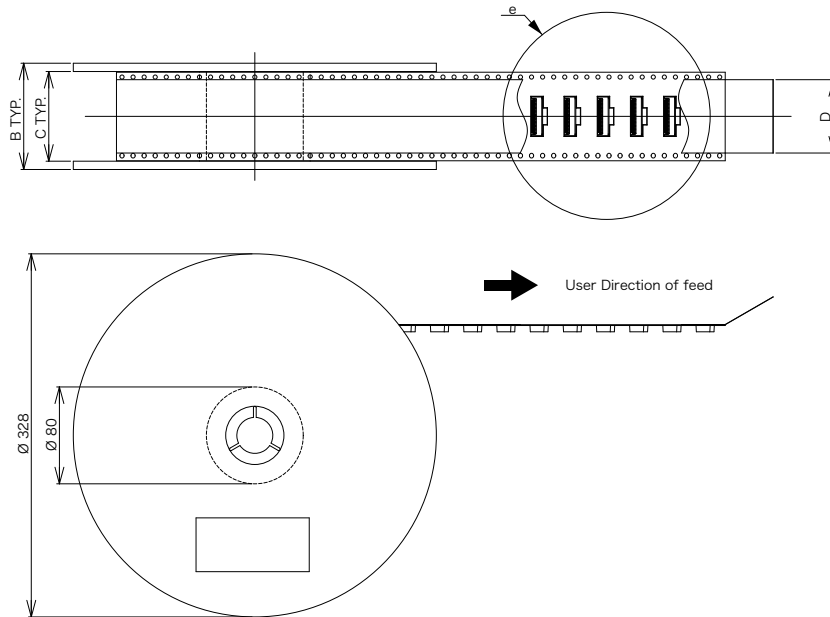


Table- 2

Part Number	Number of Contact	A	B	C	D	E	F	G	Emboss Tape	Quantity
FFX2S-58A-R21CL-3J	58	15.20	38.40	32.40	26.50	14.20	28.40	32.00	Type 2	2000pcs./ Reel

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