0.20 mm Pitch Low Profile FPC Back-lock Connector

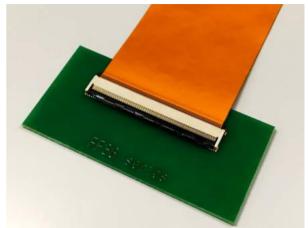


FF36 Series [Upper and Lower Contact] DDK Ltd.

OUTLINE

FF36 series is 0.2mm pitch, depth 4.30mm and 0.95mm connector height.

It is suitable for large number of contacts(up to 120 contacts). Low profile FPC connector.



FEATURES

- \cdot "Back-lock" system:Original rotate oval cam lock ensures the reliable connection.
- · The contact position is upper and lower contact.
- · The lock will not open, even the FPC is pulled upward.
- · Connectors are delivered with the lock lever opened. Time saving for FPC inserting operation.
- · Nickel barrier prevents solder wicking.
- · Halogen Free correspondence presence

Note: $\ensuremath{\mathbb{X}}$ Please do not close the lock lever without inserting the FPC.

APPPLICATIONS

Mobile phone, Notebook PC, PDA, Other Portable devices

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	50 M Ω min. at 250V DC
Contact Resistance	80m Ω max.

MATERIAL/FINISH

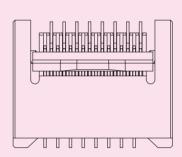


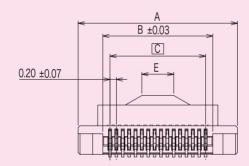
Item	Material / Finish					
Contact Copper Alloy / Au (Flash) over Ni						
Housing	LCP Resin (UL94V-0) / Ivory					
Lock Lever	PPS Resin (UL94V-0) / Black					

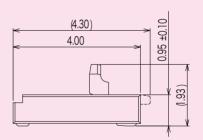
▶0.20mm Pitch FPC Connector [Upeer and Lower contact]

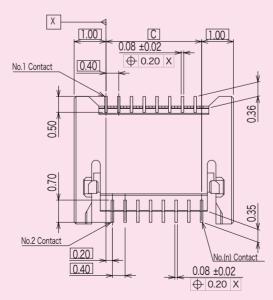
① Series	FF36				
② Number of Contact	Refer to Table-1				
③ Contact Position	A : Upper and Lower Contact				
S Contact Position	Applicable FPC Thickness: 0.15±0.02mm				
4 Connecor Style	R : Right Angle				
⑤ Contact Tail Length	2 : Odd Number of Contact 0.50mm Even Number of Contact 0.70mm				
6 Contact Plating/Finish	1 : Au(Flash) over Ni plating				
⑦ Lock Lever Type	B: Long Type				
® Material	3H : Halogen-free Correspondence				

◆ Dimensions





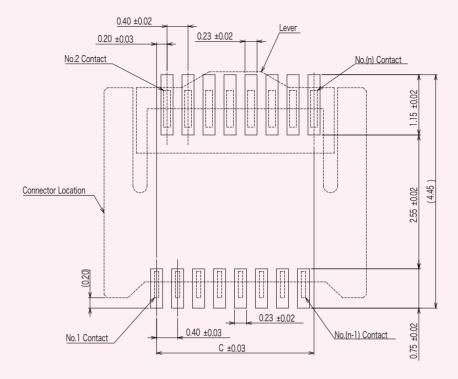




Specifications and/or dimensions in this catalog are subject to change without notice.
 Please varify the latest specifications with our drawings.

• 0.20mm Pitch FPC Connector [Upeer and Lower contact]

◆ Recommended PCB Mounting Dimensions



◆ Recommended FPC Dimensions

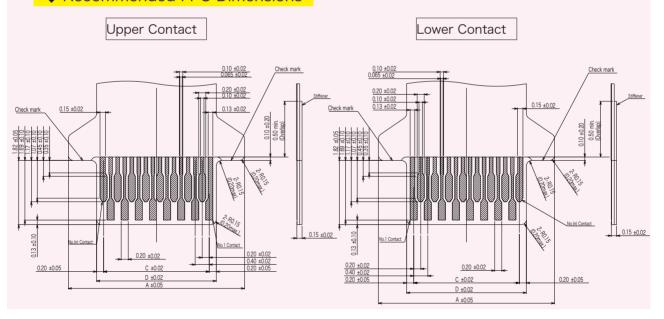


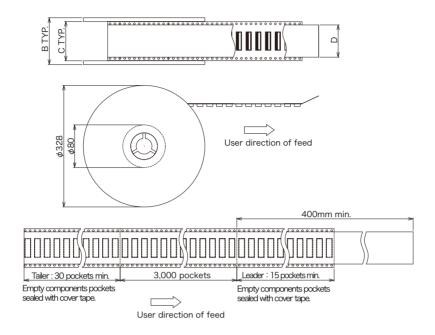
Table-1

Part Number	Number of Contact	А	В	С	D	E
FF36-120A-R21B-3H	120	25.80	24.28	23.80	24.20	20.00

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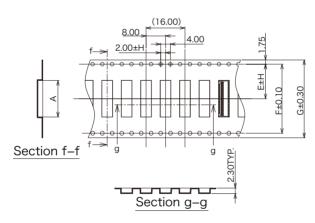
▶Packing Specifications

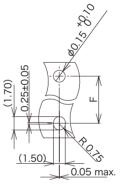
■ Reel Dimensions



■ Emboss Tape Dimensions

◆ Type 2





Detail elongation and skew of sprocket hole

Part Number	N u m b e r of Contact	А	В	С	D	Е	F	G	Н	Emboss Type
FF36-120A-R21B-3H	120	26.10	50.4	44.4	38.5	20.2	40.4	44.0	0.15	Type2

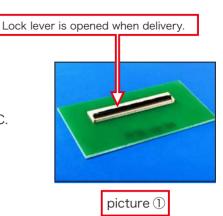
■ Package Quantity: 3,000pcs./Reel

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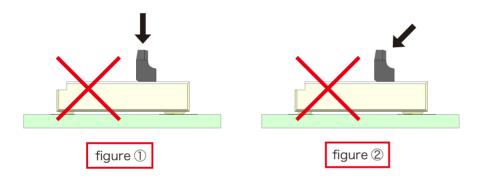
Operating Instruction and Caution

1. Connector mounting Instruction

- Connectors are delivered with the lock lever opened.
 You do not have to operate the lock lever before inserting FPC.
 (picture ①)
- · Please do not reflow with the lock lever closed.



Please do not load from the top of the lock lever. (figure ①)
 And please do not load toward the opposite direction of the lock lever. (figure ②)
 Otherwise, the lock lever may be broken or contacts may be deformed.

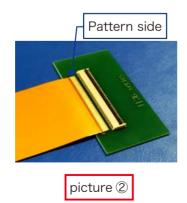


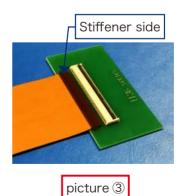
2. FPC Insertion

• Please insert the FPC straight to the connector. (picture ②, ③)

Due to the semi-retaining mechnism, some insertion force is necessary when inserting FPC.

Please make sure whether FPC is inserted fully.





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Operating Instruction and Caution

3. Correct FPC Insertion Position

· It prevents Incomplete and diagonal insertion by striking the FPC flange against the connector edge. (figure (3, 4, 5))

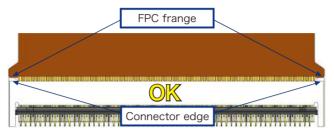


figure 3: Normal insersion

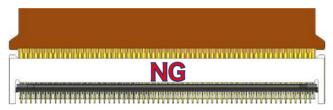


figure 4: Incomplete insertion

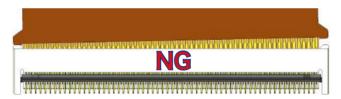


figure (5): Diagonal insertion

4. Closing Lock Lever

• Please rotate down the lock lever until firmly closed.(picture ④) Please do not load excessive force on the housing.(picture ⑤)



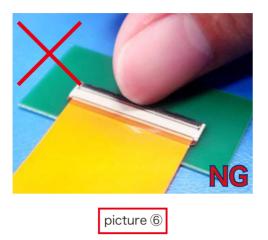


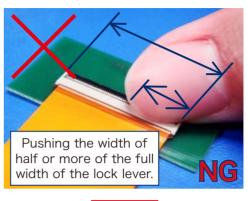
picture ⑤

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Operating Instruction and Caution

- · Please do not close the lock lever by tip of finger nail. (picture 6)
- · Please hold the lock lever at least half width of it. (picture ⑦)

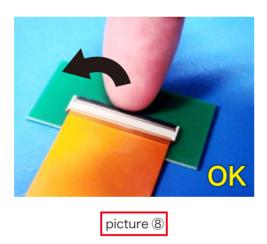




picture ⑦

5. Removing FPC

• Please lift the lock lever by flipping up in the direction of arrow.(picture ®) Please do not load excessive force on the lock lever.(picture ®)





picture ⑨

6. ESD(Electrostatic Discharge)

This connector does not protect the circuit from ESD.

7. Disposal of Connector

Please dispose the connector as industrial waste.

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