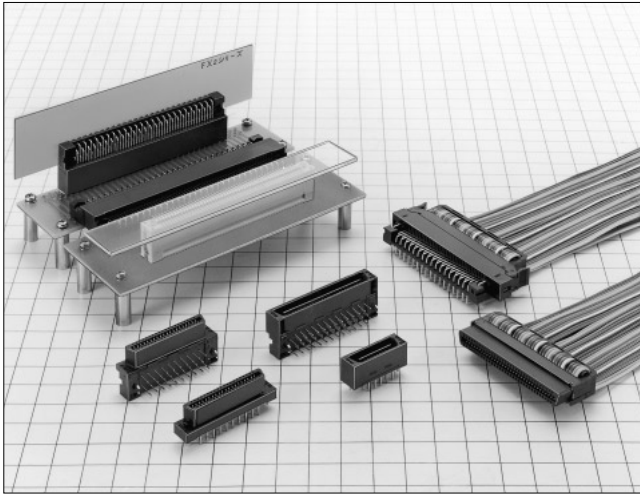


1.27mm Pitch Multi-function Two Piece Connector

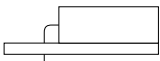




FX2 Series





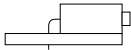
■ Features


1. Various connection with various product line

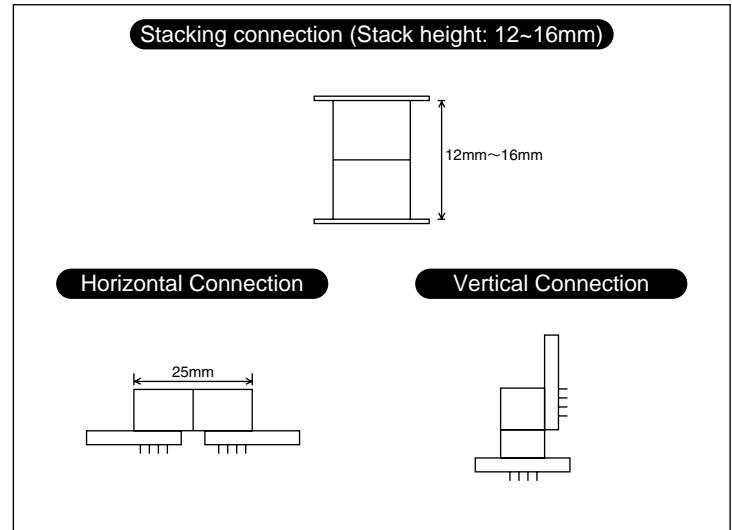
Stacking connection		Vertical type		Cable connection
Through hole type	SMT type	Through hole type	SMT type	
		Through hole type	SMT type	

<div>Through hole type</div> <div></div>	<div></div>	<div>Horizontal type</div> <div></div>
<div>SMT type</div> <div></div>		<div></div>

<div>Vertical type</div>	
<div>Through hole type</div> <div></div>	<div>SMT type</div> <div></div>

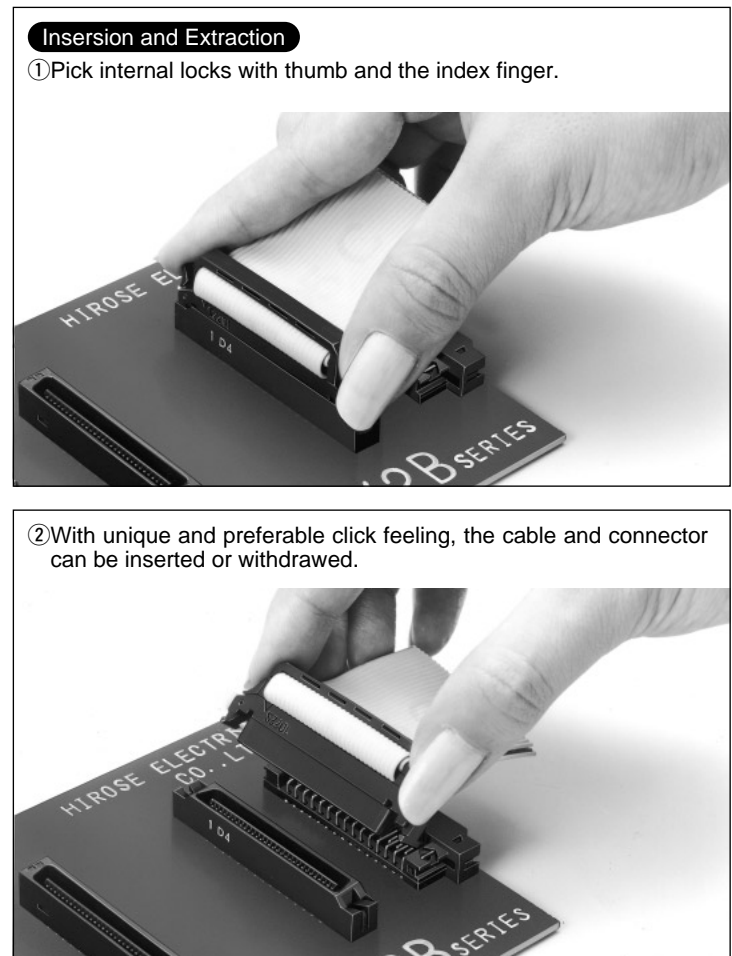
<div>Cable only</div> <div></div>
--

<div>Cable connection</div> <div></div>
--



2. Easy One-Touch Operation

The ribbon cable connection type allows easy one-touch operation with either single hand.



(For insertion, the operation proceeds from procedure (2) to (1).)

3. Board to board type

① Flux swell prevention

The straight through hole type takes the complete flux tight action from the board back side at solder dipping. The type is prepared, corresponding to whether or not cleaning is required.

② Stack height 12mm to 16mm

The board stack height can be set to every 1 mm unit up to 12 to 16mm.

③ Mis-insertion preventive mechanism

The mating area is designed in a mechanism so as to prevent mis-insertion, and complete countermeasures have been taken against wrenching.

4. Board to cable type

① Complete lock with easy operation

Employing the inner lock system, complete lock and eject actions can be performed with easy operation.

② Applicable cable

The applicable cable is the <UL2651>AWG#28 flat cable (7/0.127mm), and the jacket size is 0.9±0.1mm.

5. SMT type

Strength security with metaltab

The right angle type is equipped with metaltab to secure soldering strength, and constructed so as to fix by screws. The straight type can choose whether or not metaltab are required.

■Applications

Computers, peripheral equipments, various machines etc.

■Product Specifications

Rating	Current rating 0.5A	Operating Temperature Range -55℃ to +85℃ (Note 1)	Storage Temperature Range -10℃ to +60℃ (Note 2)
	Voltage rating 125V AC	Operating Humidity Range 40 to 80%	Storage Humidity Range 40 to 70% (Note 2)

Item	Specification	Condition
1. Insulation Resistance	1000M ohms min	250V DC
2. Withstanding Voltage	No flashover or insulation breakdown.	300V AC/1 minute
3. Contact Resistance	45m ohms max.	100mA
4. Vibration	No electrical discontinuity of 1μs or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.
5. Humidity (Steady state)	Contact resistance: 55m ohms max. Insulation resistance: 100M ohms min.	96 hours at temperature of 40℃ and humidity of 90% to 95%
6. Temperature Cycle	Contact resistance: 55m ohms max. Insulation resistance: 100M ohms min. No damage, cracks, or parts looseness.	(-55℃: 30 minutes → 15 to 35℃: 2 to 3 minutes → 85℃: 30 minutes → 15 to 35℃: 2 to 3 minutes) 5 cycles
7. Durability (Mating/un-mating)	Contact resistance: 55 m ohms max.	500 cycles
8. Resistance to soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile Manual soldering: 260℃ for 10 seconds

Note 1: Includes temperature rise caused by current flow.

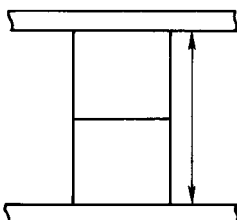
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

■Material

Parts	Material	Finish	Remark
Insulator	Dip type	Polyamid	UL94V-0
	Socket	PBT/Polyamid	
	SMT type	PPS	
Contact	Receptacle	Phosphor bronze	_____
	Socket		
	Header		
		Phosphor bronze or brass	

■Stacking Variation

Unit:mm



Header \ Receptacle		Dip type		SMT type
		FX2C-*S-1.27DSA(L)	FX2C2-*S-1.27DSA(L)	FX2-*S-1.27SV(L)
Dip type	FX2C-*P-1.27DSA(L)	12	14.0	12.2
	FX2CA-*P-1.27DSA(L)			
	FX2CA1-*P-1.27DSA(L)			
	FX2CA2-*P-1.27DSA(L)			
SMT type	FX2-*P-1.27SV(L)	12.1	14.1	12.3

■ Ordering Information

● Board to Board Receptacle

$\frac{\text{FX2}}{\text{①}}$
 $\frac{\text{CA}}{\text{②}}$
 $\frac{\text{2}}{\text{③}}$
 $-$
 $\frac{*}{\text{④}}$
 $\frac{\text{S}}{\text{⑤}}$
 $-$
 $\frac{1.27}{\text{⑥}}$
 $\frac{\text{DSA}}{\text{⑦}}$
 $\frac{\text{L}}{\text{⑧}}$

① Series Name :FX2	④ Number of contacts: 20, 32, 40, 52, 60, 68, 80, 100, 120
② Blank: Right angle type	⑤ Connector type: S: Receptacle
C : Straight non-cleaning type	⑥ Contact pitch: 1.27mm
CA : Straight cleaning type	⑦ Contact type
③ Product height variation (DSA only)	DS : Right angle type
Blank : Standard product	DSA : Straight type
2 : +2mm	⑧ L: Board prefixed pin

● Board to Board Header

$\frac{\text{FX2}}{\text{①}}$
 $\frac{\text{CA}}{\text{②}}$
 $\frac{\text{1}}{\text{③}}$
 $-$
 $\frac{*}{\text{④}}$
 $\frac{\text{P}}{\text{⑤}}$
 $-$
 $\frac{1.27}{\text{⑥}}$
 $\frac{\text{DSA}}{\text{⑦}}$
 $\frac{\text{L}}{\text{⑧}}$

① Series Name :FX2	④ Number of contacts: 20, 32, 40, 52, 60, 68, 80, 100, 120
② None : Right angle type	⑤ Connector type: P: header
C : Straight non-cleaning type	⑥ Contact pitch: 1.27mm
CA : Straight cleaning type	⑦ Contact type:
③ Product height variation (DSA only)	DS : Right angle type
Blank : Standard product	DSA : Straight type
1 : +1mm	⑧ L: Board prefixed pin
2 : +2mm	

Note 1. C and CA take complete countermeasures against flux.

Note 2. Cleaning type: the liquid escape hole is added at dip cleaning.

Note 3. No-cleaning type: no liquid escape hole is added at dip cleaning.

● Board to Cable Socket

$\frac{\text{FX2}}{\text{①}}$
 $\frac{\text{BA}}{\text{②}}$
 $-$
 $\frac{*}{\text{③}}$
 $\frac{\text{S}}{\text{④}}$
 $\frac{\text{A}}{\text{⑤}}$
 $-$
 $\frac{1.27}{\text{⑥}}$
 $\frac{\text{R}}{\text{⑦}}$

① Series Name : FX2	④ S: Socket
② B : Lock cable type	⑤ A: Contact material: phosphor bronze
BA : No lock cable type	⑥ Contact pitch: 1.27mm
③ Number of contacts: 20, 32, 40, 52, 60, 68, 80, 100	⑦ R: Insulation displacement

●Board to Cable Header

$\frac{\text{FX2}}{\text{①}} \quad \frac{\text{BA}}{\text{②}} - \frac{*}{\text{③}} \frac{\text{P}}{\text{④}} \frac{\text{A}}{\text{⑤}} - \frac{1.27}{\text{⑥}} \frac{\text{DSA}}{\text{⑦}} \frac{\text{L}}{\text{⑧}}$

① Series Name : FX2	⑤ None : Contact material: phosphor bronze A : Contact material: brass
② B : Lock straight no cleaning type : Lock right angle type BA : Lock straight cleaning type	⑥ Contact pitch: 1.27mm
③ Number of contacts: 20, 32, 40, 52, 60, 68, 80, 100	⑦ Contact type: DS : Right angle type DSA : Straight type
④ Connector type: P: header	⑧ L: Board prefixed pin

Note 1. Cleaning type: The liquid escape hole is added at dip cleaning.

Note 2. No cleaning type: No liquid escape hole is added at dip cleaning.

Note 3. Straight 20 and 32 contact types use phosphor bronze for contact material.

●Straight SMT Type

$\frac{\text{FX2}}{\text{①}} - \frac{*}{\text{②}} \frac{\text{P}}{\text{③}} - \frac{1.27}{\text{④}} \frac{\text{SV}}{\text{⑤}} \frac{\text{L}}{\text{⑥}}$

① Series Name :FX2	④ Contact pitch: 1.27mm
② Number of contacts: 20, 32, 40, 52, 60, 68, 80, 100, 120	⑤ Contact type: SV: Straight SMT type
③ Connector type: P: Header S: Receptacle	⑥ L: Board prefixed pin

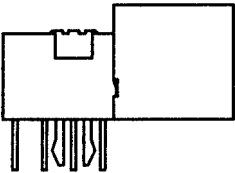
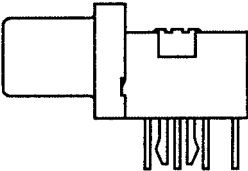
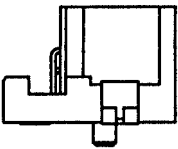
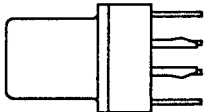
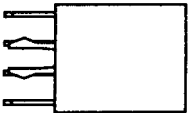
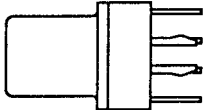
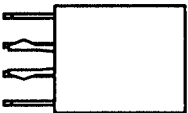
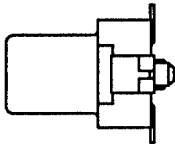
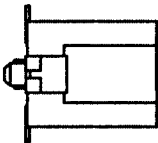
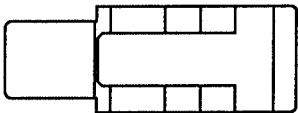
●Header Right Angle SMT Type

$\frac{\text{FX2}}{\text{①}} \quad \frac{\text{A}}{\text{②}} - \frac{*}{\text{③}} \frac{\text{P}}{\text{④}} - \frac{0.635}{\text{⑤}} \frac{\text{SH}}{\text{⑥}}$

① Series Name :FX2	④ Connector type: P: Header
② Blank: With boss A : Without boss	⑤ Mounting area pitch: 0.635mm
③ Number of contacts: 20, 40, 52, 60, 80	⑥ Contact type SH: Right angle SMT type

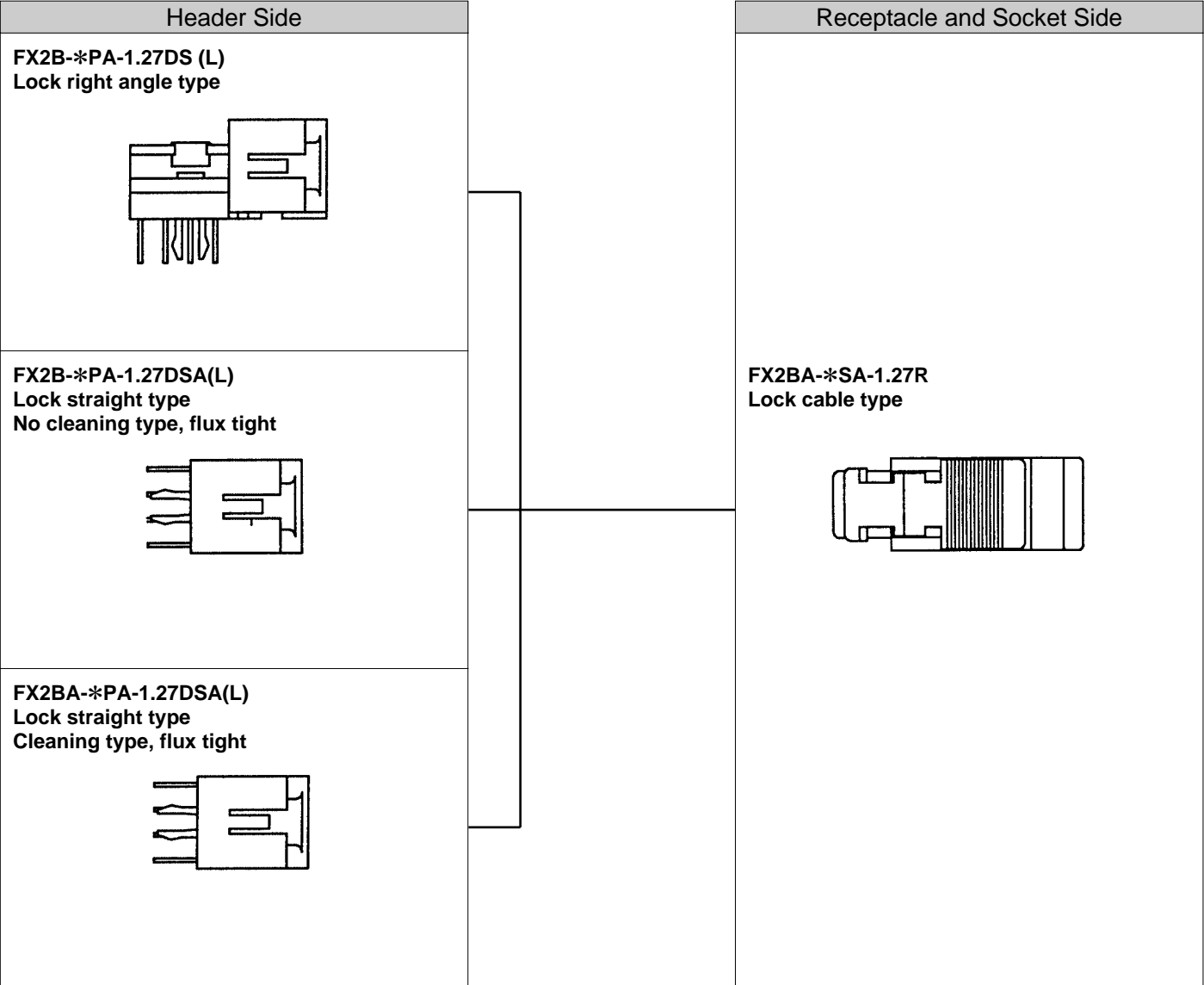
◆FX2 Functional Flow Chart

Board to Board Cable Type

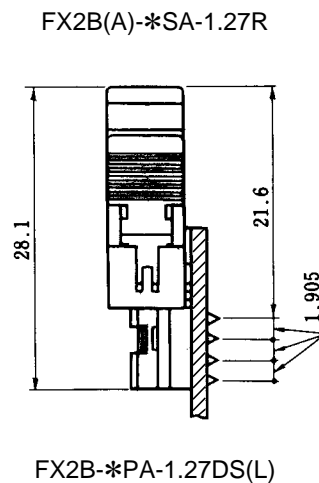
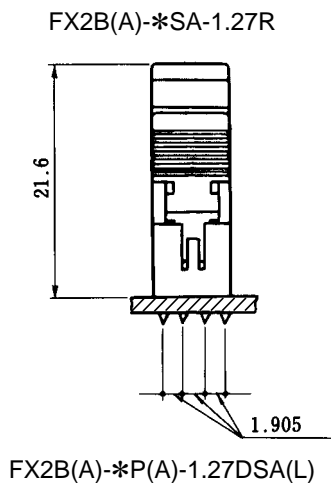
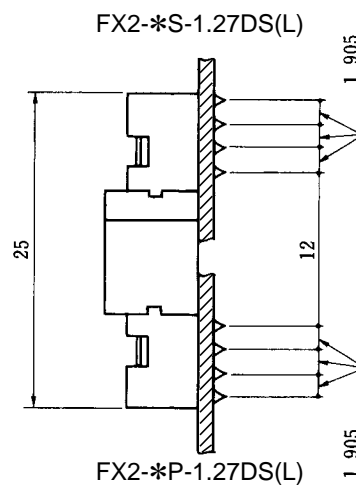
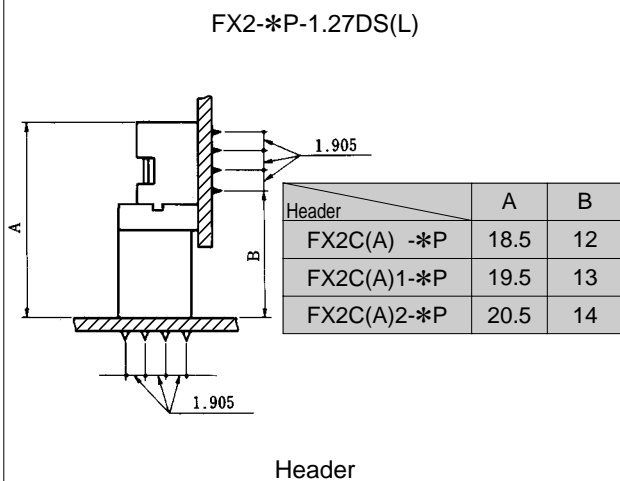
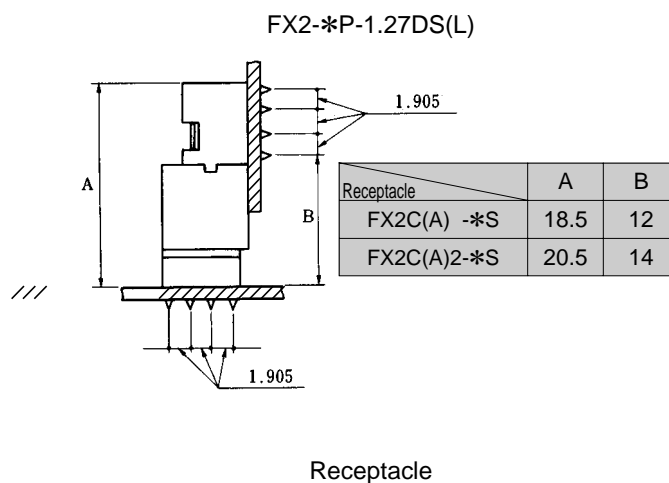
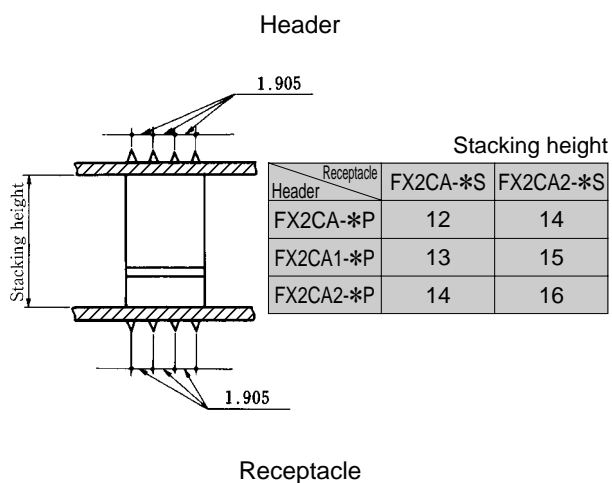
Header Side	Receptacle and Socket Side
FX2-*P-1.27DS (L) Right angle type 	FX2-*S-1.27DS (L) Right angle type 
FX2(A)-*P-0.635SH Right angle type SMT type 	FX2C-*S-1.27DS (L) Straight type No cleaning type, flux tight 
FX2C-*P-1.27DSA (L) Straight type No cleaning type, flux tight 	FX2C-*S-1.27DS (L) Straight type Cleaning type, flux tight 
FX2CA-*P-1.27DSA (L) Straight type Cleaning type, flux tight 	FX2CA-*S-1.27DSV (L) Straight type SMT type 
FX2-*P-1.27DSA (L) Straight type SMT type 	FX2BA-*SA-1.27R No lock cable type 

◆FX2 Functional Flow Chart

Board to Board Cable Type

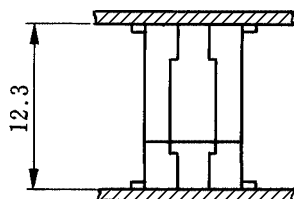


◆ Through hole Type Application Pattern



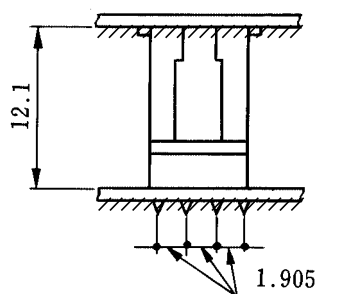
◆SMT Type Application Pattern

FX2-*P-1.27SV(L)



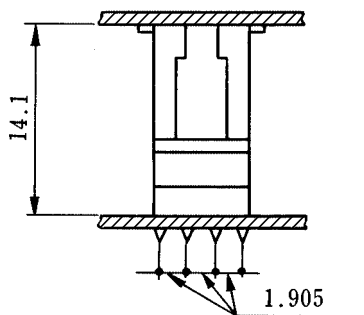
FX2-*S-1.27SV(L)

FX2-*P-1.27SV(L)



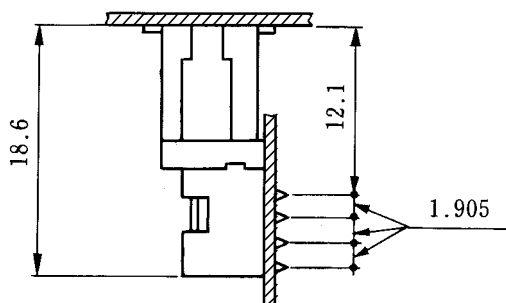
FX2C(A)-*S-1.27-DSA(L)

FX2-*P-1.27SV(L)



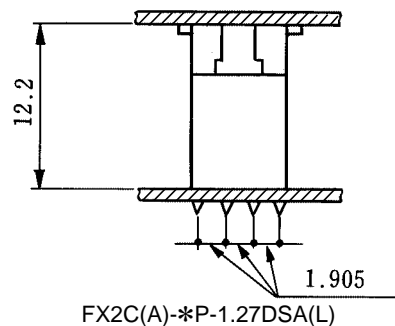
FX2C(A)2-*S-1.27DSA(L)

FX2-*P-1.27SV(L)



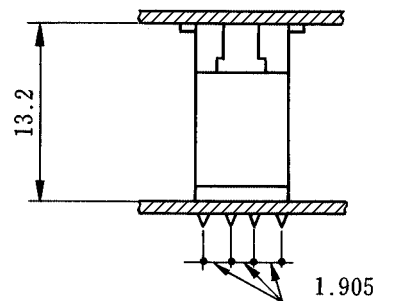
FX2-*S-1.27DS(L)

FX2-*S-1.27SV(L)



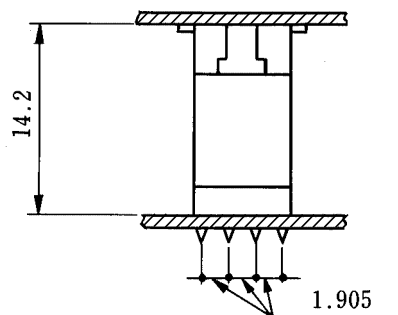
FX2C(A)-*P-1.27DSA(L)

FX2-*S-1.27SV(L)



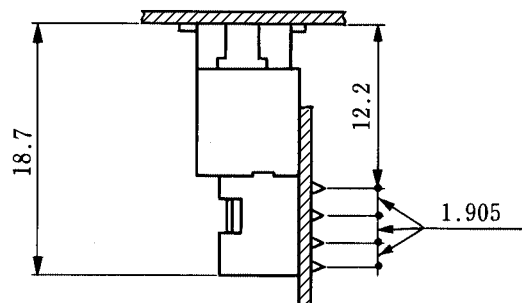
FX2C(A)1-*P-1.27DSA(L)

FX2-*S-1.27SV(L)



FX2C(A)2-*P-1.27DSA(L)

FX2-*S-1.27SV(L)

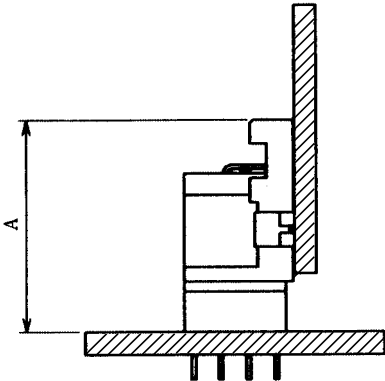


FX2-*P-1.27DS(L)

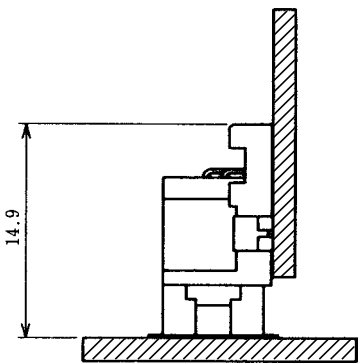
◆SMT Type Application Pattern

FX2(A)-*P-0.635SH

Receptacle	A
FX2C(A)2	14.7
FX2C(A)2	16.7



FX2(A)-*P-0.635SH

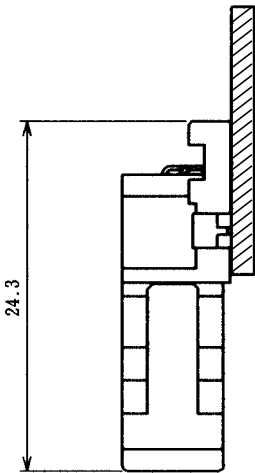
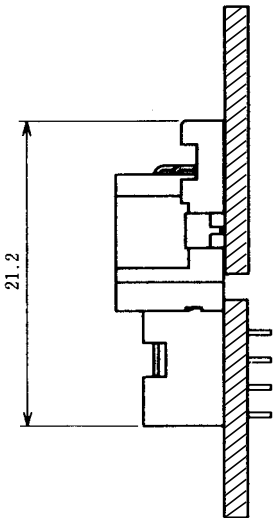


FX2C(A*2)-*S-1.27DSA(L)

FX2-*S-1.27SV(L)

FX2(A)-*P-0.635SH

FX2(A)-*P-0.635SH

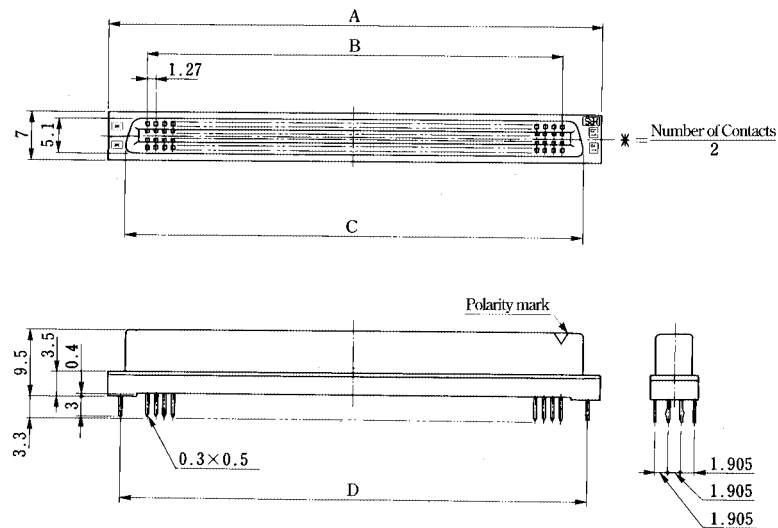
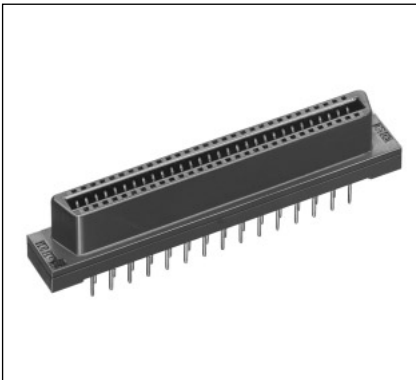


FX2-*S-1.27DS(L)

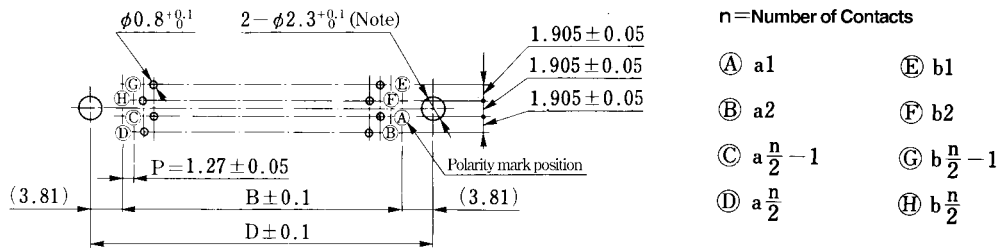
FX2BA-*SA-1.27R

■Receptacle No Cleaning Type

●Straight Type



◆PCB mounting pattern



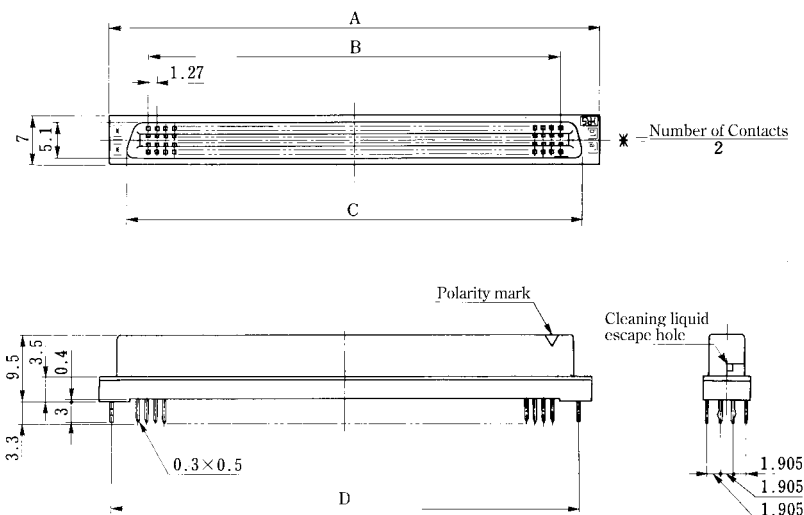
Note: Not required, if no prefixed pin is attached.

Unit:mm

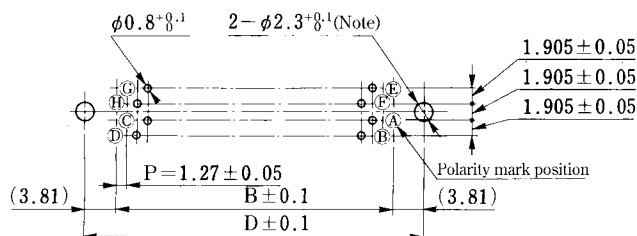
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FX2C- 20S-1.27DSA	572-2401-7	20	22.75	11.43	17.63	_____
FX2C- 20S-1.27DSAL	572-2451-5					19.05
FX2C- 32S-1.27DSA	572-2402-0	32	30.37	19.05	25.25	_____
FX2C- 32S-1.27DSAL	572-2452-8					26.67
FX2C- 40S-1.27DSA	572-2403-2	40	35.45	24.13	30.33	_____
FX2C- 40S-1.27DSAL	572-2453-0					31.75
FX2C- 52S-1.27DSA	572-2404-5	52	43.07	31.75	37.95	_____
FX2C- 52S-1.27DSAL	572-2454-3					39.37
FX2C- 60S-1.27DSA	572-2405-8	60	48.15	36.83	43.03	_____
FX2C- 60S-1.27DSAL	572-2455-6					44.45
FX2C- 68S-1.27DSA	572-2406-0	68	53.23	41.91	48.11	_____
FX2C- 68S-1.27DSAL	572-2456-9					49.53
FX2C- 80S-1.27DSA	572-2407-3	80	60.85	49.53	55.73	_____
FX2C- 80S-1.27DSAL	572-2457-1					57.15
FX2C-100S-1.27DSA	572-2408-6	100	73.55	62.23	68.43	_____
FX2C-100S-1.27DSAL	572-2458-4					69.85
FX2C-120S-1.27DSA	572-2409-9	120	86.25	74.93	81.13	_____
FX2C-120S-1.27DSAL	572-2459-7					82.55

■Receptacle Cleaning Type

●Straight Type



◆PCB mounting pattern



n=Number of Contacts

- | | |
|-----------------------|-----------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a \frac{n}{2} - 1$ | Ⓖ $b \frac{n}{2} - 1$ |
| Ⓓ $a \frac{n}{2}$ | Ⓗ $b \frac{n}{2}$ |

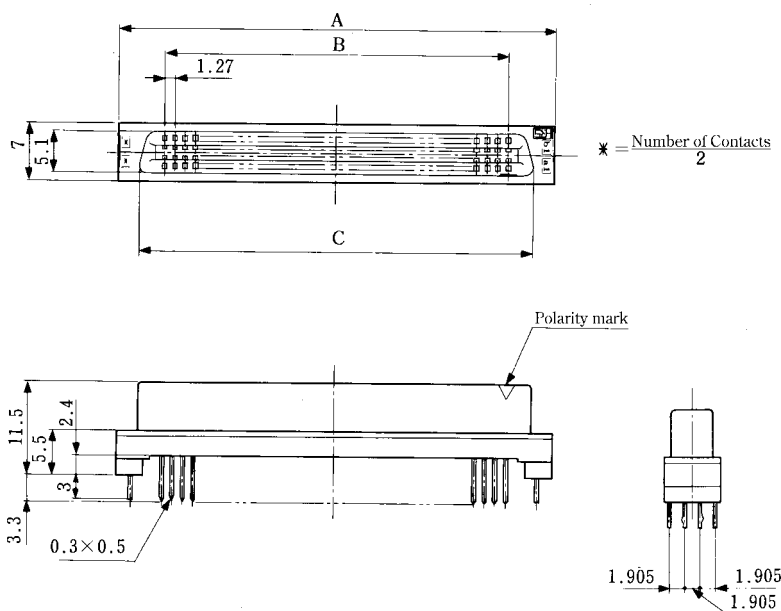
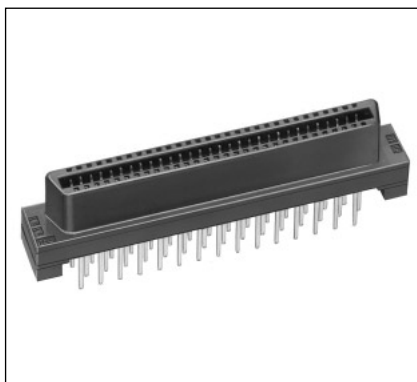
Note: Not required, if no prefixed pin is attached.

Unit:mm

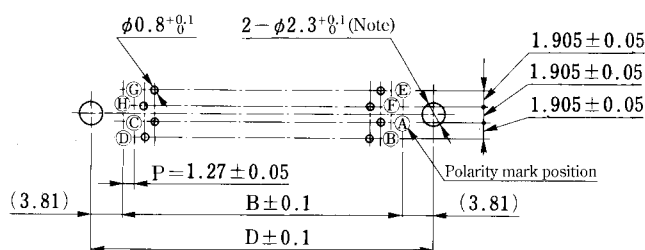
Part Number	CL No.	Number of Contacts	A	B	C	D
FX2CA- 20S-1.27DSA	572-2501-1	20	22.75	11.43	17.63	_____
FX2CA- 20S-1.27DSAL	572-2551-0					19.05
FX2CA- 32S-1.27DSA	572-2502-4	32	30.37	19.05	25.25	_____
FX2CA- 32S-1.27DSAL	572-2552-2					26.67
FX2CA- 40S-1.27DSA	572-2503-7	40	35.45	24.13	30.33	_____
FX2CA- 40S-1.27DSAL	572-2553-5					31.75
FX2CA- 52S-1.27DSA	572-2504-0	52	43.07	31.75	37.95	_____
FX2CA- 52S-1.27DSAL	572-2554-8					39.37
FX2CA- 60S-1.27DSA	572-2505-2	60	48.15	36.83	43.03	_____
FX2CA- 60S-1.27DSAL	572-2555-0					44.45
FX2CA- 68S-1.27DSA	572-2506-5	68	53.23	41.91	48.11	_____
FX2CA- 68S-1.27DSAL	572-2556-3					49.53
FX2CA- 80S-1.27DSA	572-2507-8	80	60.85	49.53	55.73	_____
FX2CA- 80S-1.27DSAL	572-2557-6					57.15
FX2CA-100S-1.27DSA	572-2508-0	100	73.55	62.23	68.43	_____
FX2CA-100S-1.27DSAL	572-2558-9					69.85
FX2CA-120S-1.27DSA	572-2509-3	120	86.25	74.93	81.13	_____
FX2CA-120S-1.27DSAL	572-2559-1					82.55

■Receptacle No Cleaning Type

●Straight Type



◆PCB mounting pattern



n = Number of Contacts

- | | |
|-----------------------|-----------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a \frac{n}{2} - 1$ | Ⓖ $b \frac{n}{2} - 1$ |
| Ⓓ $a \frac{n}{2}$ | Ⓗ $b \frac{n}{2}$ |

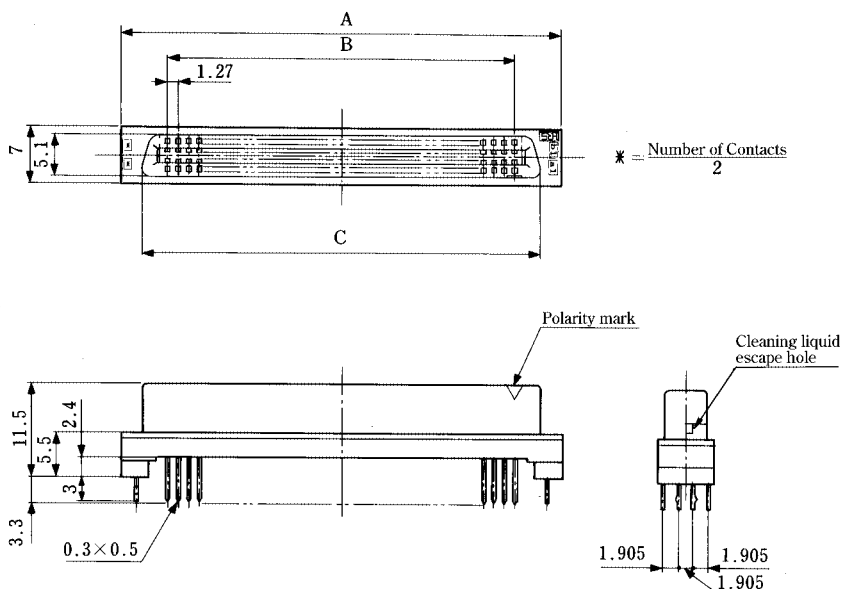
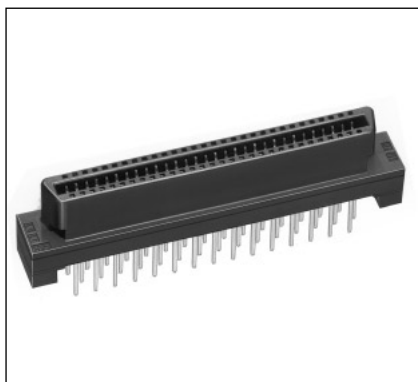
Note: Not required, if no prefixed pin is attached.

Unit:mm

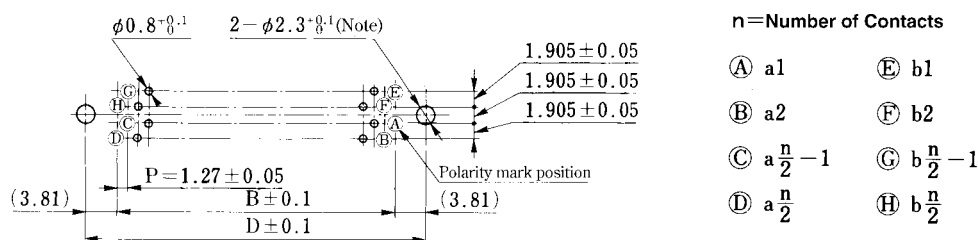
Part Number	CL No.	Number of Contacts	A	B	C	D
FX2C2- 20S-1.27DSA	572-2421-4	20	22.75	11.43	17.63	_____
FX2C2- 20S-1.27DSAL	572-2471-2					19.05
FX2C2- 32S-1.27DSA	572-2422-7	32	30.37	19.05	25.25	_____
FX2C2- 32S-1.27DSAL	572-2472-5					26.67
FX2C2- 40S-1.27DSA	572-2423-0	40	35.45	24.13	30.33	_____
FX2C2- 40S-1.27DSAL	572-2473-8					31.75
FX2C2- 52S-1.27DSA	572-2424-2	52	43.07	31.75	37.95	_____
FX2C2- 52S-1.27DSAL	572-2474-0					39.37
FX2C2- 60S-1.27DSA	572-2425-5	60	48.15	36.83	43.03	_____
FX2C2- 60S-1.27DSAL	572-2475-3					44.45
FX2C2- 68S-1.27DSA	572-2426-8	68	53.23	41.91	48.11	_____
FX2C2- 68S-1.27DSAL	572-2476-6					49.53
FX2C2- 80S-1.27DSA	572-2427-0	80	60.85	49.53	55.73	_____
FX2C2- 80S-1.27DSAL	572-2477-9					57.15
FX2C2-100S-1.27DSA	572-2428-3	100	73.55	62.23	68.43	_____
FX2C2-100S-1.27DSAL	572-2478-1					69.85
FX2C2-120S-1.27DSA	572-2429-6	120	86.25	74.93	81.13	_____
FX2C2-120S-1.27DSAL	572-2479-4					82.55

■Receptacle Cleaning Type

●Straight Type



◆PCB mounting pattern



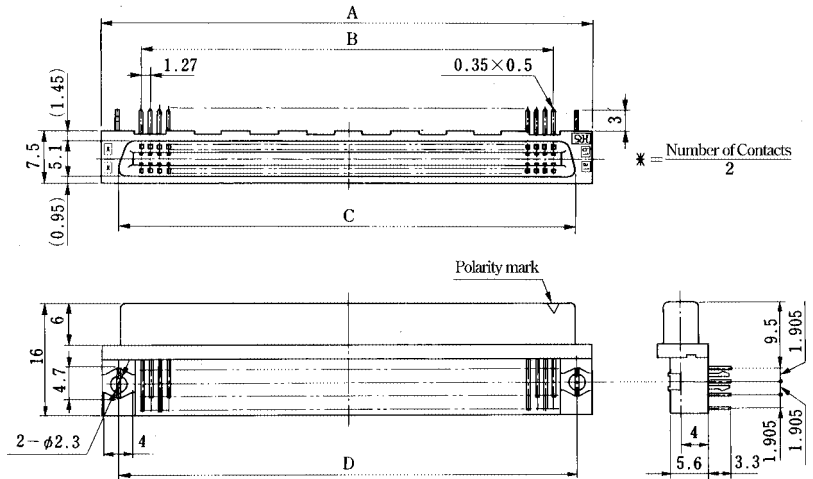
Note: Not required, if no prefixed pin is attached.

Unit:mm

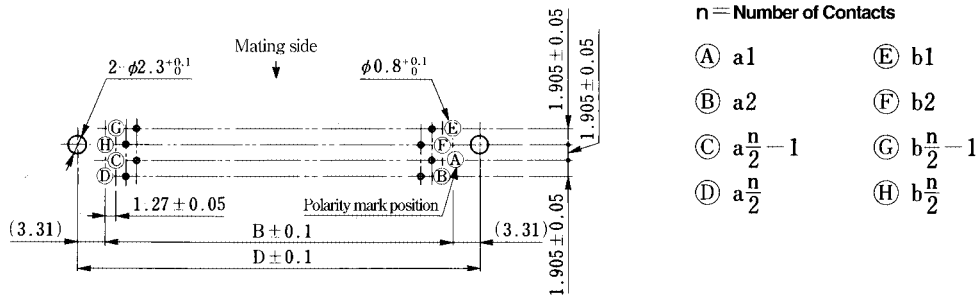
Part Number	CL No.	Number of Contacts	A	B	C	D
FX2CA2- 20S-1.27DSA	572-2521-9	20	22.75	11.43	17.63	_____
FX2CA2- 20S-1.27DSAL	572-2571-7					19.05
FX2CA2- 32S-1.27DSA	572-2522-1	32	30.37	19.05	25.25	_____
FX2CA2- 32S-1.27DSAL	572-2572-0					26.67
FX2CA2- 40S-1.27DSA	572-2523-4	40	35.45	24.13	30.33	_____
FX2CA2- 40S-1.27DSAL	572-2573-2					31.75
FX2CA2- 52S-1.27DSA	572-2524-7	52	43.07	31.75	37.95	_____
FX2CA2- 52S-1.27DSAL	572-2574-5					39.37
FX2CA2- 60S-1.27DSA	572-2525-0	60	48.15	36.83	43.03	_____
FX2CA2- 60S-1.27DSAL	572-2575-8					44.45
FX2CA2- 68S-1.27DSA	572-2526-2	68	53.23	41.91	48.11	_____
FX2CA2- 68S-1.27DSAL	572-2576-0					49.53
FX2CA2- 80S-1.27DSA	572-2527-5	80	60.85	49.53	55.73	_____
FX2CA2- 80S-1.27DSAL	572-2577-3					57.15
FX2CA2-100S-1.27DSA	572-2528-8	100	73.55	62.23	68.43	_____
FX2CA2-100S-1.27DSAL	572-2578-6					69.85
FX2CA2-120S-1.27DSA	572-2529-0	120	86.25	74.93	81.13	_____
FX2CA2-120S-1.27DSAL	572-2579-9					82.55

■Receptacle

●Right Angle Type



◆PCB mounting pattern

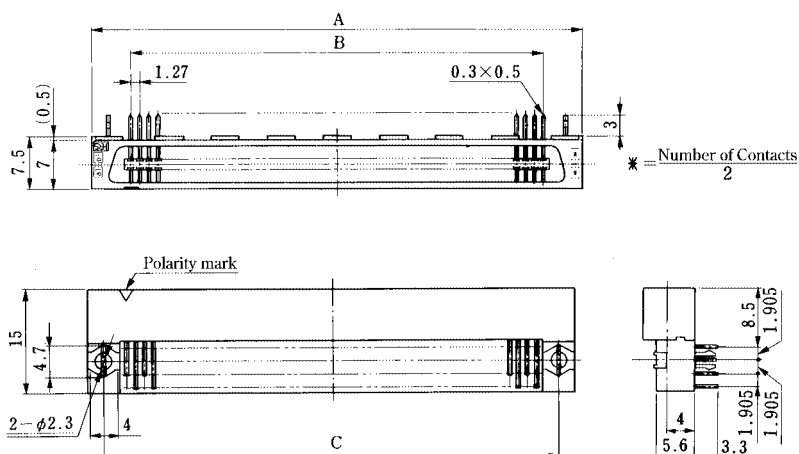
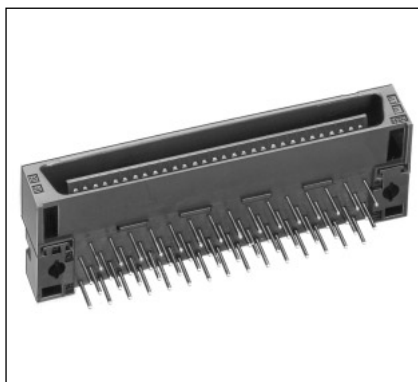


Unit:mm

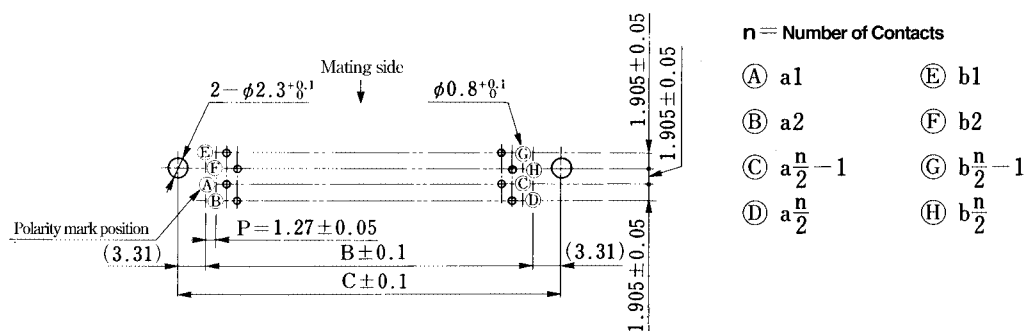
Part Number	CL No.	Number of Contacts	A	B	C	D
FX2- 20S-1.27DS	572-2701-0	20	22.75	11.43	17.63	18.05
FX2- 20S-1.27DSL	572-2751-9					
FX2- 32S-1.27DS	572-2702-3	32	30.37	19.05	25.25	25.67
FX2- 32S-1.27DSL	572-2752-1					
FX2- 40S-1.27DS	572-2703-6	40	35.45	24.13	30.33	30.75
FX2- 40S-1.27DSL	572-2753-4					
FX2- 52S-1.27DS	572-2704-9	52	43.07	31.75	37.95	38.37
FX2- 52S-1.27DSL	572-2754-7					
FX2- 60S-1.27DS	572-2705-1	60	48.15	36.83	43.03	43.45
FX2- 60S-1.27DSL	572-2755-0					
FX2- 68S-1.27DS	572-2706-4	68	53.23	41.91	48.11	48.53
FX2- 68S-1.27DSL	572-2756-2					
FX2- 80S-1.27DS	572-2707-7	80	60.85	49.53	55.73	56.15
FX2- 80S-1.27DSL	572-2757-5					
FX2-100S-1.27DS	572-2708-0	100	73.55	62.23	68.43	68.85
FX2-100S-1.27DSL	572-2758-8					
FX2-120S-1.27DS	572-2709-2	120	86.25	74.93	81.13	81.55
FX2-120S-1.27DSL	572-2759-0					

Header

Right Angle Type



PCB mounting pattern

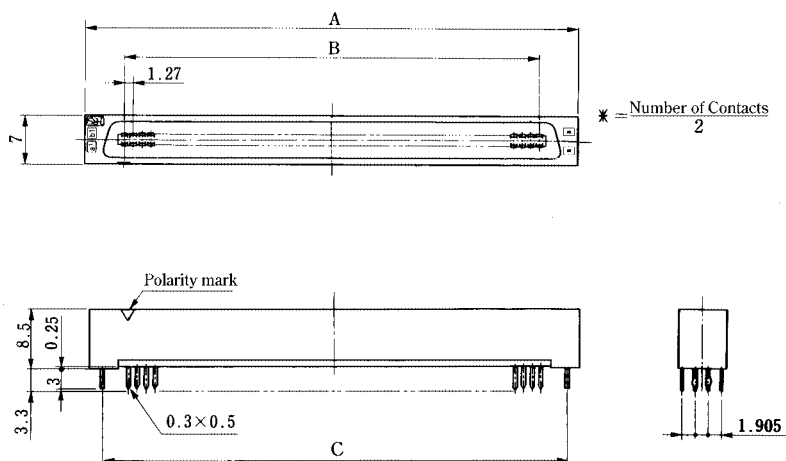
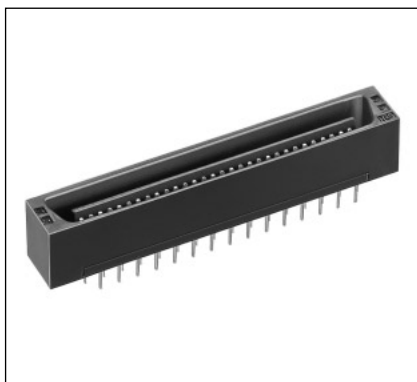


Unit:mm

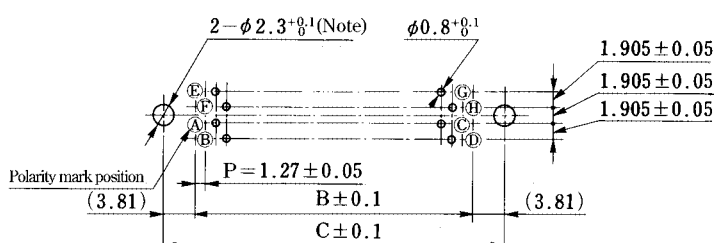
Part Number	CL No.	Number of Contacts	A	B	C
FX2- 20P-1.27DS	572-2601-6	20	22.75	11.43	18.05
FX2- 20P-1.27DSL	572-2651-4				
FX2- 32P-1.27DS	572-2602-9	32	30.37	19.05	25.67
FX2- 32P-1.27DSL	572-2652-7				
FX2- 40P-1.27DS	572-2603-1	40	35.45	24.13	30.75
FX2- 40P-1.27DSL	572-2653-0				
FX2- 52P-1.27DS	572-2604-4	52	43.07	31.75	38.37
FX2- 52P-1.27DSL	572-2654-2				
FX2- 60P-1.27DS	572-2605-7	60	48.15	36.83	43.45
FX2- 60P-1.27DSL	572-2655-5				
FX2- 68P-1.27DS	572-2606-0	68	53.23	41.91	48.53
FX2- 68P-1.27DSL	572-2656-8				
FX2- 80P-1.27DS	572-2607-2	80	60.85	49.53	56.15
FX2- 80P-1.27DSL	572-2657-0				
FX2-100P-1.27DS	572-2608-5	100	73.55	62.23	68.85
FX2-100P-1.27DSL	572-2658-3				
FX2-120P-1.27DS	572-2609-8	120	86.25	74.93	81.55
FX2-120P-1.27DSL	572-2659-6				

■Header No Cleaning Type

●Straight Type



◆PCB mounting pattern



n = Number of Contacts

- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

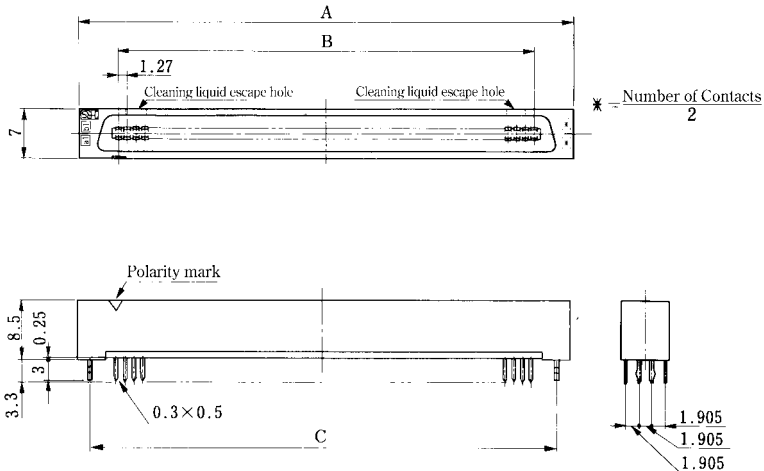
Note: Not required, if no prefixed pin is attached.

Unit:mm

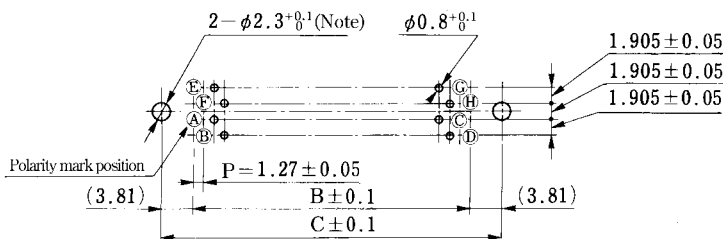
Part Number	CL No.	Number of Contacts	A	B	C
FX2C- 20P-1.27DSA	572-2201-8	20	22.75	11.43	_____
FX2C- 20P-1.27DSAL	572-2251-6				19.05
FX2C- 32P-1.27DSA	572-2202-0	32	30.37	19.05	_____
FX2C- 32P-1.27DSAL	572-2252-9				26.67
FX2C- 40P-1.27DSA	572-2203-3	40	35.45	24.13	_____
FX2C- 40P-1.27DSAL	572-2253-1				31.75
FX2C- 52P-1.27DSA	572-2204-6	52	43.07	31.75	_____
FX2C- 52P-1.27DSAL	572-2254-4				39.37
FX2C- 60P-1.27DSA	572-2205-9	60	48.15	36.83	_____
FX2C- 60P-1.27DSAL	572-2255-7				44.45
FX2C- 68P-1.27DSA	572-2206-1	68	53.23	41.91	_____
FX2C- 68P-1.27DSAL	572-2256-0				49.53
FX2C- 80P-1.27DSA	572-2207-4	80	60.85	49.53	_____
FX2C- 80P-1.27DSAL	572-2257-2				57.15
FX2C-100P-1.27DSA	572-2208-7	100	73.55	62.23	_____
FX2C-100P-1.27DSAL	572-2258-5				69.85
FX2C-120P-1.27DSA	572-2209-0	120	86.25	74.93	_____
FX2C-120P-1.27DSAL	572-2259-8				82.55

Header Cleaning Type

Straight Type



PCB mounting pattern



n = Number of Contacts

- Ⓐ a1 Ⓔ b1
- Ⓑ a2 Ⓕ b2
- Ⓒ $a \frac{n}{2} - 1$ Ⓖ $b \frac{n}{2} - 1$
- Ⓓ $a \frac{n}{2}$ Ⓖ $b \frac{n}{2}$

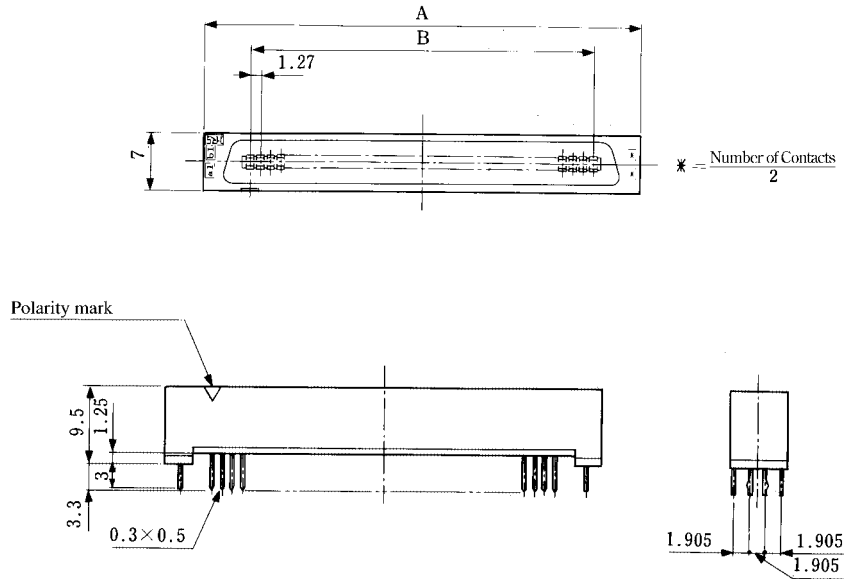
Note: Not required, if no prefixed pin is attached.

Unit:mm

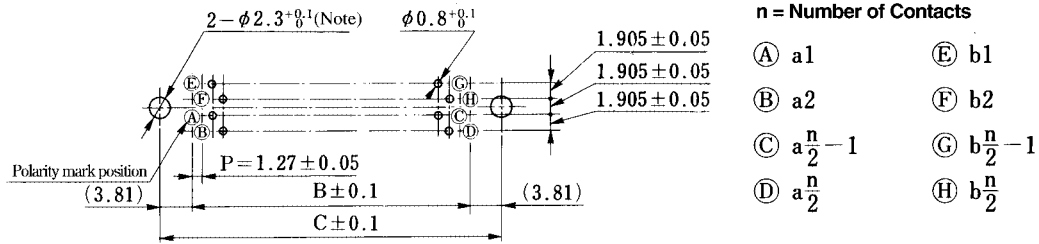
Part Number	CL No.	Number of Contacts	A	B	C
FX2CA- 20P-1.27DSA	572-2301-2	20	22.75	11.43	_____
FX2CA- 20P-1.27DSAL	572-2351-0				19.05
FX2CA- 32P-1.27DSA	572-2302-5	32	30.37	19.05	_____
FX2CA- 32P-1.27DSAL	572-2352-3				26.67
FX2CA- 40P-1.27DSA	572-2303-8	40	35.45	24.13	_____
FX2CA- 40P-1.27DSAL	572-2353-6				31.75
FX2CA- 52P-1.27DSA	572-2304-0	52	43.07	31.75	_____
FX2CA- 52P-1.27DSAL	572-2354-9				39.37
FX2CA- 60P-1.27DSA	572-2305-3	60	48.15	36.83	_____
FX2CA- 60P-1.27DSAL	572-2355-1				44.45
FX2CA- 68P-1.27DSA	572-2306-6	68	53.23	41.91	_____
FX2CA- 68P-1.27DSAL	572-2356-4				49.53
FX2CA- 80P-1.27DSA	572-2307-9	80	60.85	49.53	_____
FX2CA- 80P-1.27DSAL	572-2357-7				57.15
FX2CA-100P-1.27DSA	572-2308-1	100	73.55	62.23	_____
FX2CA-100P-1.27DSAL	572-2358-0				69.85
FX2CA-120P-1.27DSA	572-2309-4	120	86.25	74.93	_____
FX2CA-120P-1.27DSAL	572-2359-2				82.55

■Header No Cleaning Type

●Straight Type



◆PCB mounting pattern



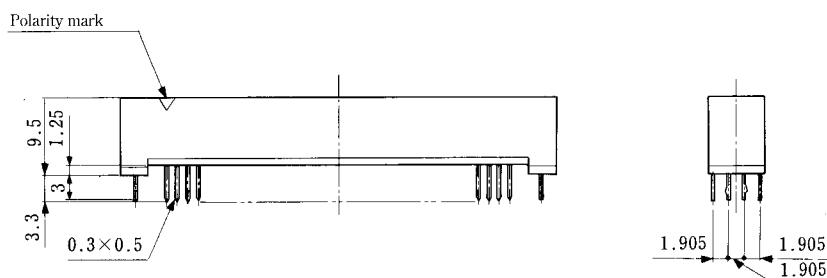
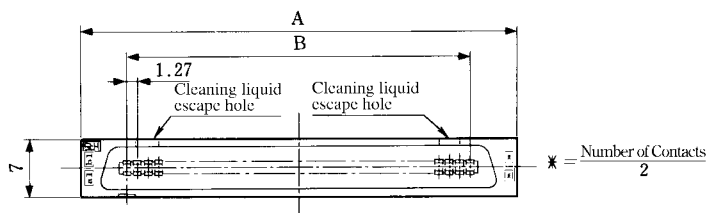
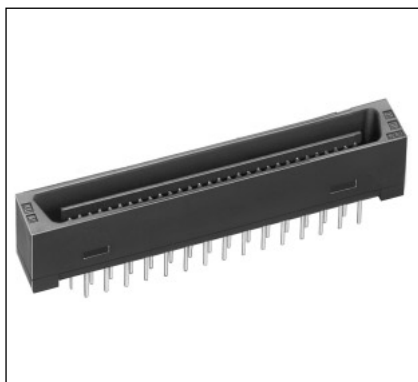
Note: Not required, if no prefixed pin is attached.

Unit: mm

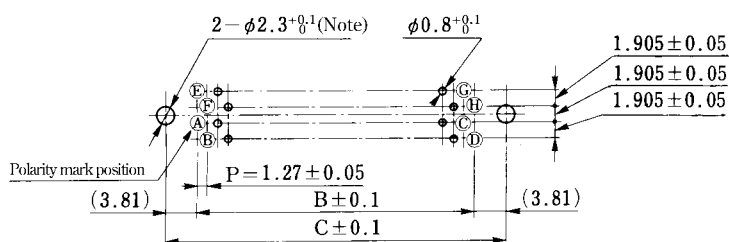
Part Number	CL No.	Number of Contacts	A	B	C
FX2C1- 20P-1.27DSA	572-2211-1	20	22.75	11.43	—
FX2C1- 20P-1.27DSAL	572-2261-0				19.05
FX2C1- 32P-1.27DSA	572-2212-4	32	30.37	19.05	—
FX2C1- Z32P-1.27DSAL	572-2262-2				26.67
FX2C1- 40P-1.27DSA	572-2213-7	40	35.45	24.13	—
FX2C1- 40P-1.27DSAL	572-2263-5				31.75
FX2C1- 52P-1.27DSA	572-2214-0	52	43.07	31.75	—
FX2C1- 52P-1.27DSAL	572-2264-8				39.37
FX2C1- 60P-1.27DSA	572-2215-2	60	48.15	36.83	—
FX2C1- 60P-1.27DSAL	572-2265-0				44.45
FX2C1- 68P-1.27DSA	572-2216-5	68	53.23	41.91	—
FX2C1- 68P-1.27DSAL	572-2266-3				49.53
FX2C1- 80P-1.27DSA	572-2217-8	80	60.85	49.53	—
FX2C1- 80P-1.27DSAL	572-2267-6				57.15
FX2C1-100P-1.27DSA	572-2218-0	100	73.55	62.23	—
FX2C1-100P-1.27DSAL	572-2268-9				69.85
FX2C1-120P-1.27DSA	572-2219-3	120	86.25	74.93	—
FX2C1-120P-1.27DSAL	572-2269-1				82.55

■Header Cleaning Type

●Straight Type



◆PCB mounting pattern



n = Number of Contacts

- | | |
|-----------------------|-----------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a \frac{n}{2} - 1$ | Ⓖ $b \frac{n}{2} - 1$ |
| Ⓓ $a \frac{n}{2}$ | Ⓗ $b \frac{n}{2}$ |

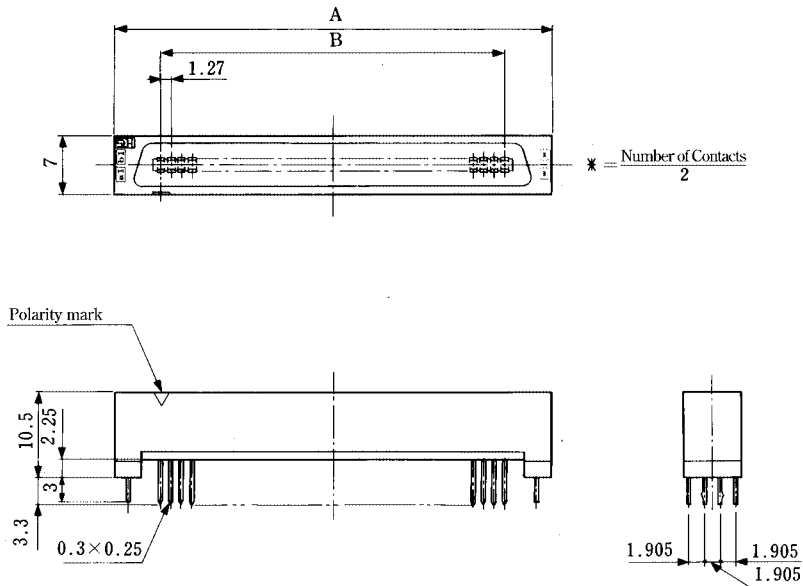
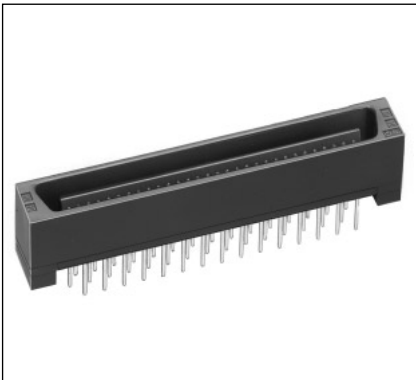
Note: Not required, if no prefixed pin is attached.

Unit: mm

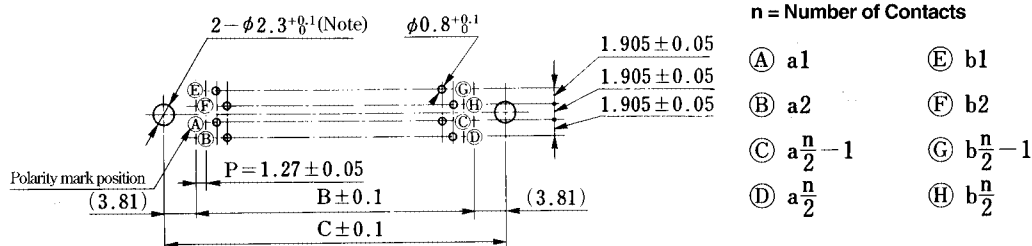
Part Number	CL No.	Number of Contacts	A	B	C
FX2CA1- 20P-1.27DSA	572-2311-6	20	22.75	11.43	—
FX2CA1- 20P-1.27DSAL	572-2361-4				19.05
FX2CA1- 32P-1.27DSA	572-2312-9	32	30.37	19.05	—
FX2CA1- 32P-1.27DSAL	572-2362-7				26.67
FX2CA1- 40P-1.27DSA	572-2313-1	40	35.45	24.13	—
FX2CA1- 40P-1.27DSAL	572-2363-0				31.75
FX2CA1- 52P-1.27DSA	572-2314-4	52	43.07	31.75	—
FX2CA1- 52P-1.27DSAL	572-2364-2				39.37
FX2CA1- 60P-1.27DSA	572-2315-7	60	48.15	36.83	—
FX2CA1- 60P-1.27DSAL	572-2365-5				44.45
FX2CA1- 68P-1.27DSA	572-2316-0	68	53.23	41.91	—
FX2CA1- 68P-1.27DSAL	572-2366-8				49.53
FX2CA1- 80P-1.27DSA	572-2317-2	80	60.85	49.53	—
FX2CA1- 80P-1.27DSAL	572-2367-0				57.15
FX2CA1-100P-1.27DSA	572-2318-5	100	73.55	62.23	—
FX2CA1-100P-1.27DSAL	572-2368-3				69.85
FX2CA1-120P-1.27DSA	572-2319-8	120	86.25	74.93	—
FX2CA1-120P-1.27DSAL	572-2369-6				82.55

Header No Cleaning Type

Straight Type



PCB mounting pattern



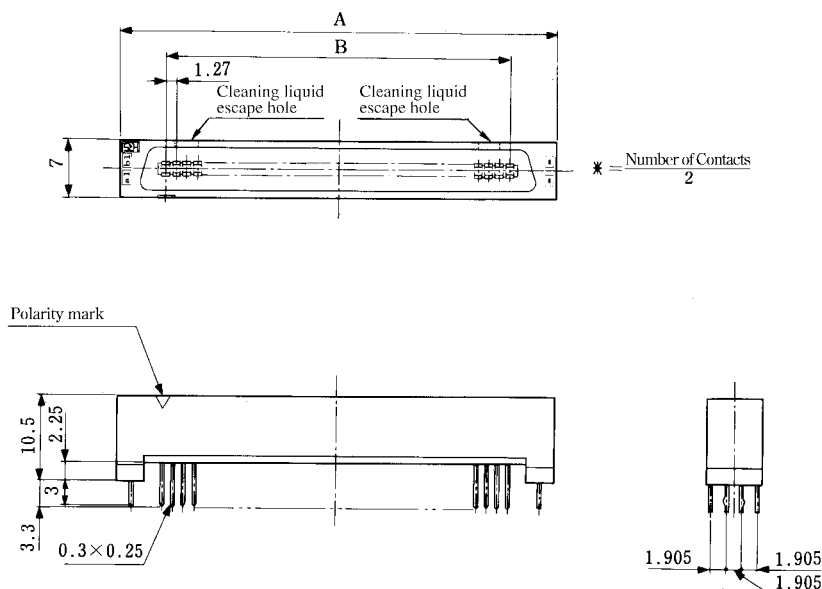
Note: Not required, if no prefixed pin is attached.

Unit: mm

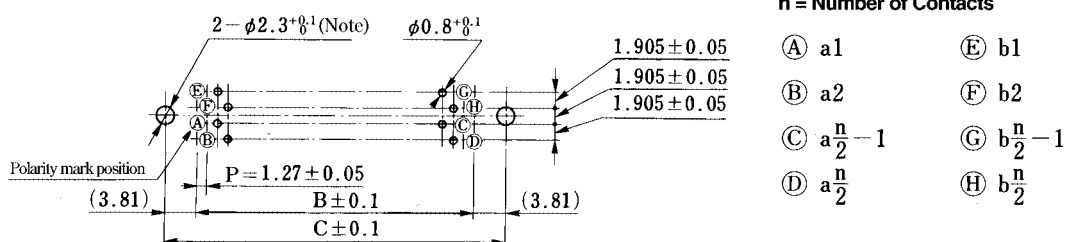
Part Number	CL No.	Number of Contacts	A	B	C
FX2C2- 20P-1.27DSA	572-2221-5	20	22.75	11.43	—
FX2C2- 20P-1.27DSAL	572-2271-3				19.05
FX2C2- 32P-1.27DSA	572-2222-8	32	30.37	19.05	—
FX2C2- 32P-1.27DSAL	572-2272-6				26.67
FX2C2- 40P-1.27DSA	572-2223-0	40	35.45	24.13	—
FX2C2- 40P-1.27DSAL	572-2273-9				31.75
FX2C2- 52P-1.27DSA	572-2224-3	52	43.07	31.75	—
FX2C2- 52P-1.27DSAL	572-2274-1				39.37
FX2C2- 60P-1.27DSA	572-2225-6	60	48.15	36.83	—
FX2C2- 60P-1.27DSAL	572-2275-4				44.45
FX2C2- 68P-1.27DSA	572-2226-9	68	53.23	41.91	—
FX2C2- 68P-1.27DSAL	572-2276-7				49.53
FX2C2- 80P-1.27DSA	572-2227-1	80	60.85	49.53	—
FX2C2- 80P-1.27DSAL	572-2277-0				57.15
FX2C2-100P-1.27DSA	572-2228-4	100	73.55	62.23	—
FX2C2-100P-1.27DSAL	572-2278-2				69.85
FX2C2-120P-1.27DSA	572-2229-7	120	86.25	74.93	—
FX2C2-120P-1.27DSAL	572-2279-5				82.55

■Header Cleaning Type

●Straight Type



◆PCB mounting pattern



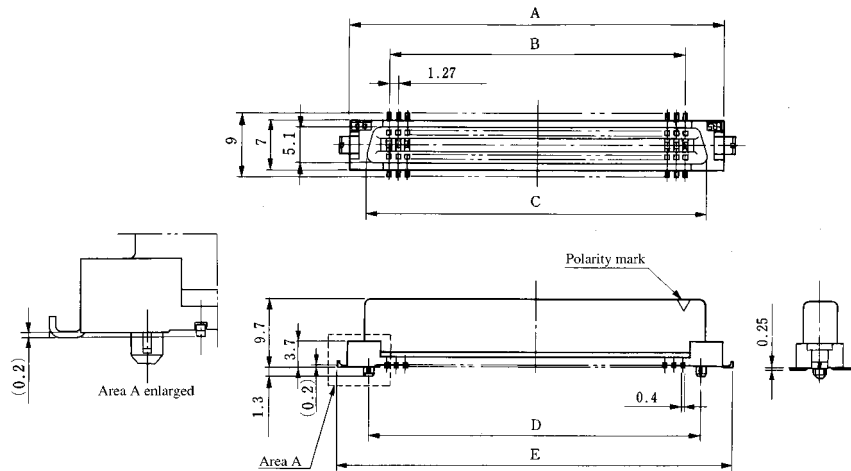
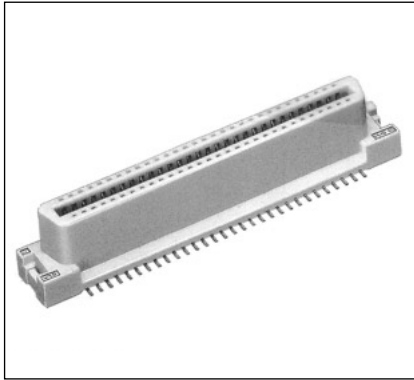
Note: Not required, if no prefixed pin is attached.

Unit: mm

Part Number	CL No.	Number of Contacts	A	B	C
FX2CA2- 20P-1.27DSA	572-2321-0	20	22.75	11.43	—
FX2CA2- 20P-1.27DSAL	572-2371-8				19.05
FX2CA2- 32P-1.27DSA	572-2322-2	32	30.37	19.05	—
FX2CA2- 32P-1.27DSAL	572-2372-0				26.67
FX2CA2- 40P-1.27DSA	572-2323-5	40	35.45	24.13	—
FX2CA2- 40P-1.27DSAL	572-2373-3				31.75
FX2CA2- 52P-1.27DSA	572-2324-8	52	43.07	31.75	—
FX2CA2- 52P-1.27DSAL	572-2374-6				39.37
FX2CA2- 60P-1.27DSA	572-2325-0	60	48.15	36.83	—
FX2CA2- 60P-1.27DSAL	572-2375-9				44.45
FX2CA2- 68P-1.27DSA	572-2326-3	68	53.23	41.91	—
FX2CA2- 68P-1.27DSAL	572-2376-1				49.53
FX2CA2- 80P-1.27DSA	572-2327-6	80	60.85	49.53	—
FX2CA2- 80P-1.27DSAL	572-2377-4				57.15
FX2CA2-100P-1.27DSA	572-2328-9	100	73.55	62.23	—
FX2CA2-100P-1.27DSAL	572-2378-7				69.85
FX2CA2-120P-1.27DSA	572-2329-1	120	86.25	74.93	—
FX2CA2-120P-1.27DSAL	572-2379-0				82.55

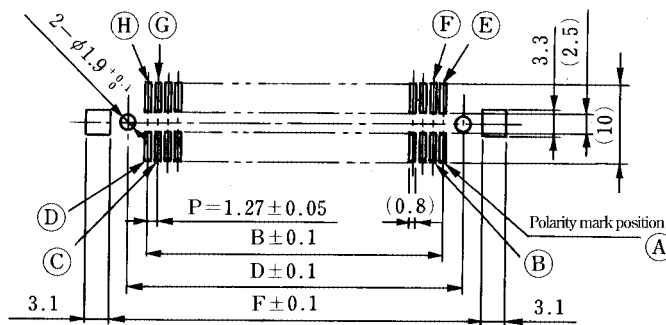
■Receptacle SMT Type

●Straight Type



Note: The 120 contacts type differs in the style.

◆PCB mounting pattern



n = Number of Contacts

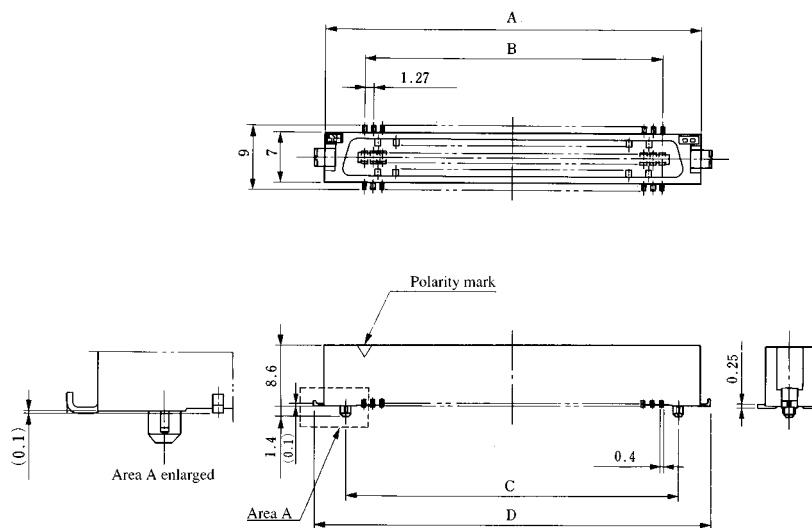
- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

Unit: mm

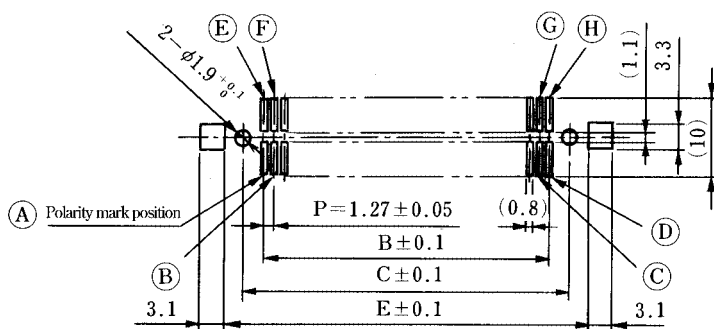
Part Number	CL No.	Number of Contacts	A	B	C	D	E	F
FX2- 20S-1.27SV	572-2101-3	20	22.75	11.43	17.63	16.51	—	—
FX2- 20S-1.27SVL	572-2151-1						25.75	21.15
FX2- 32S-1.27SV	572-2102-6	32	30.37	19.05	25.25	24.13	—	—
FX2- 32S-1.27SVL	572-2152-4						33.37	28.77
FX2- 40S-1.27SV	572-2103-9	40	35.45	24.13	30.33	29.21	—	—
FX2- 40S-1.27SVL	572-2153-7						38.45	33.85
FX2- 52S-1.27SV	572-2104-1	52	43.07	31.75	37.95	36.83	—	—
FX2- 52S-1.27SVL	572-2154-0						46.07	41.47
FX2- 60S-1.27SV	572-2105-4	60	48.15	36.83	43.03	41.91	—	—
FX2- 60S-1.27SVL	572-2155-2						51.15	46.55
FX2- 68S-1.27SV	572-2106-7	68	53.23	41.91	48.11	46.99	—	—
FX2- 68S-1.27SVL	572-2156-5						56.23	51.63
FX2- 80S-1.27SV	572-2107-0	80	60.85	49.53	55.73	54.61	—	—
FX2- 80S-1.27SVL	572-2157-8						63.85	59.25
FX2-100S-1.27SV	572-2108-2	100	73.55	62.23	68.43	67.31	—	—
FX2-100S-1.27SVL	572-2158-0						76.55	71.95
FX2-120S-1.27SV	572-2109-5	120	86.25	74.93	81.13	80.01	—	—
FX2-120S-1.27SVL	572-2159-3						89.25	84.65

■Header SMT Type

●Straight Type



◆PCB mounting pattern



n = Number of Contacts

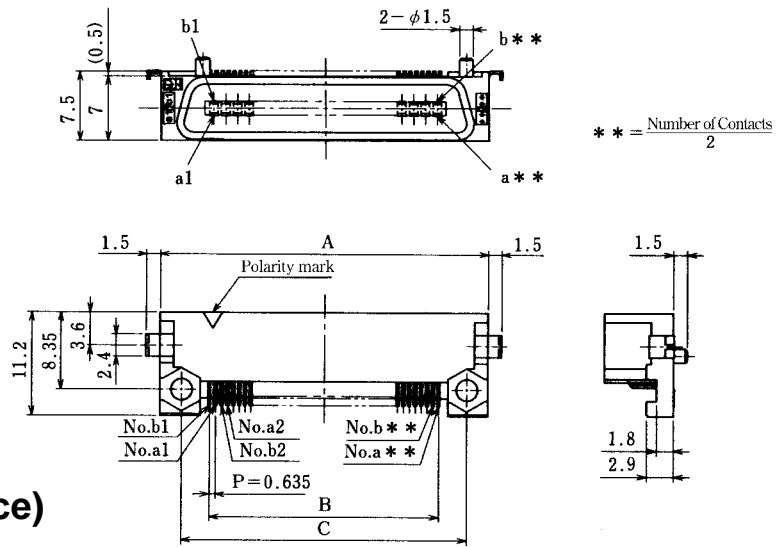
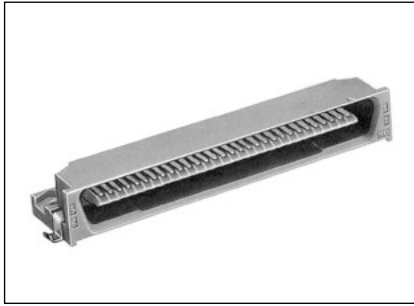
- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

Unit: mm

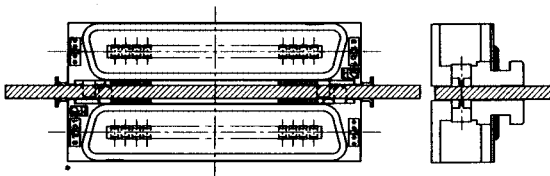
Part Number	CL No.	Number of Contacts	A	B	C	D	E
FX2- 20P-1.27SV	572-2001-9	20	22.75	11.43	16.51	—	—
FX2- 20P-1.27SVL	572-2051-7					25.75	21.15
FX2- 32P-1.27SV	572-2002-1	32	30.37	19.05	24.13	—	—
FX2- 32P-1.27SVL	572-2052-0					33.37	28.77
FX2- 40P-1.27SV	572-2003-4	40	35.45	24.13	29.21	—	—
FX2- 40P-1.27SVL	572-2053-2					38.45	33.85
FX2- 52P-1.27SV	572-2004-7	52	43.07	31.75	36.83	—	—
FX2- 52P-1.27SVL	572-2054-5					46.07	41.47
FX2- 60P-1.27SV	572-2005-0	60	48.15	36.83	41.91	—	—
FX2- 60P-1.27SVL	572-2055-8					51.15	46.55
FX2- 68P-1.27SV	572-2006-2	68	53.23	41.91	46.99	—	—
FX2- 68P-1.27SVL	572-2056-0					56.23	51.63
FX2- 80P-1.27SV	572-2007-5	80	60.85	49.53	54.61	—	—
FX2- 80P-1.27SVL	572-2057-3					63.85	59.25
FX2-100P-1.27SV	572-2008-8	100	73.55	62.23	67.31	—	—
FX2-100P-1.27SVL	572-2058-6					76.55	71.95
FX2-120P-1.27SV	572-2009-0	120	86.25	74.93	80.01	—	—
FX2-120P-1.27SVL	572-2059-9					89.25	84.65

■Header SMT Type

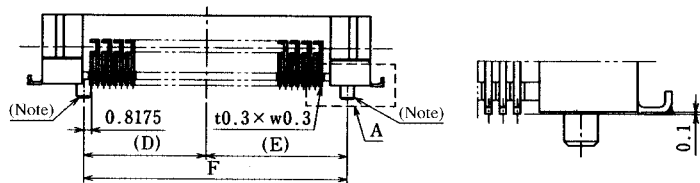
●Right Angle Type



◆Mounting Example (Reference)

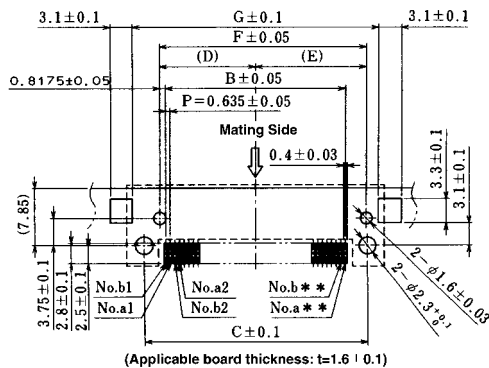


Since bosses are located symmetrically on the right and left sides, connectors can be mounted on both sides of board as shown above.

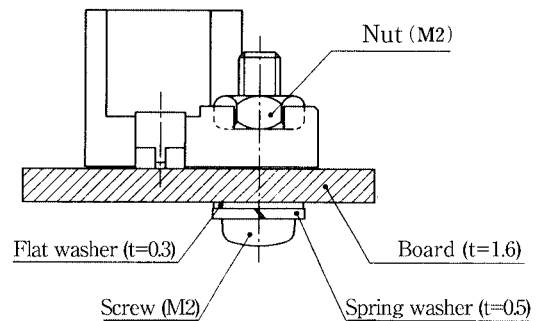


Note: The FX2A type does not have bosses as shown in the illustration.

◆PCB mounting Pattern



◆Recommended Screw Clamp



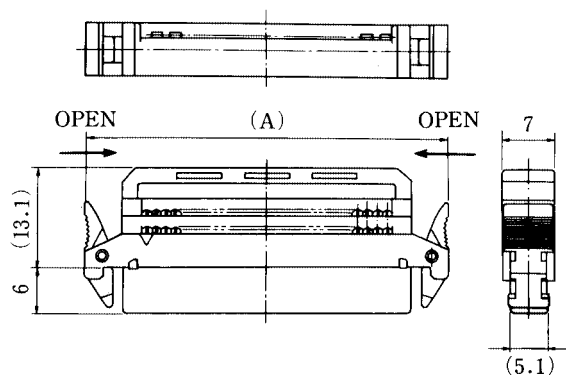
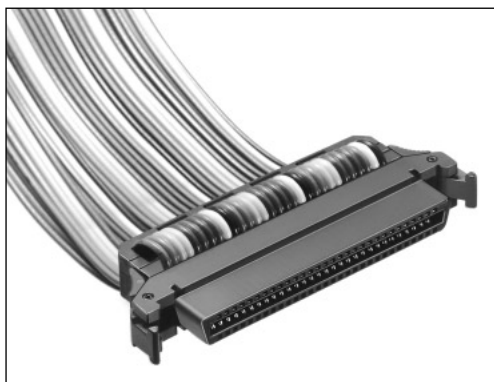
Use M2 screw for fixture.
Recommended torque is 0.15(N•m).

Unit: mm

Part Number	CL No.	Number of Contacts	A	B	C	D	E	F	G
FX2-20P-0.635SH	572-2761-2	20	22.75	12.065	18.05	6.85	8.85	15.7	21.15
FX2A-20P-0.635SH	572-2771-6					—	—	—	
FX2-40P-0.635SH	572-2763-8	40	35.45	24.765	30.75	13.2	15.2	28.4	33.85
FX2A-40P-0.635SH	572-2773-1					—	—	—	
FX2-52P-0.635SH	572-2764-0	52	43.07	32.385	38.37	17.01	19.01	36.02	41.47
FX2A-52P-0.635SH	572-2774-4					—	—	—	
FX2-60P-0.635SH	572-2765-3	60	48.15	37.465	43.45	19.55	21.55	41.1	46.55
FX2A-60P-0.635SH	572-2775-7					—	—	—	
FX2-80P-0.635SH	572-2767-9	80	60.85	50.165	56.15	25.9	27.9	53.8	59.25
FX2A-80P-0.635SH	572-2777-2					—	—	—	

■Socket Type

●Lock Cable Type

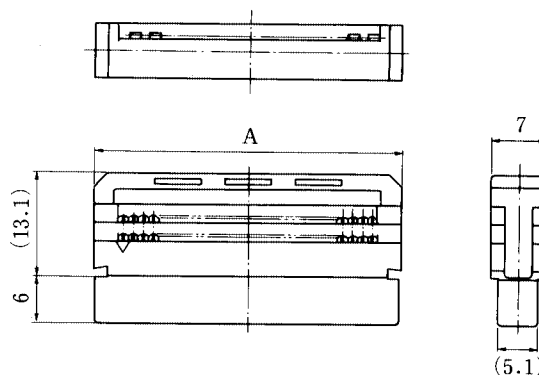


Combination View

Unit: mm

Part Number	CL No.	Number of Contacts	A
FX2B- 20SA-1.27R	572-0621-2	20	27.83
FX2B- 32SA-1.27R	572-0622-5	32	35.45
FX2B- 40SA-1.27R	572-0623-8	40	40.53
FX2B- 52SA-1.27R	572-0624-0	52	48.15
FX2B- 60SA-1.27R	572-0625-3	60	53.23
FX2B- 68SA-1.27R	572-0629-4	68	58.31
FX2B- 80SA-1.27R	572-0630-3	80	65.93
FX2B-100SA-1.27R	572-0628-1	100	78.63

●Unlock Cable Type



Combination View

Unit: mm

Part Number	CL No.	Number of Contacts	A
FX2BA- 20SA-1.27R	572-0671-0	20	18.05
FX2BA- 32SA-1.27R	572-0672-3	32	25.67
FX2BA- 40SA-1.27R	572-0673-6	40	30.75
FX2BA- 52SA-1.27R	572-0674-9	52	38.37
FX2BA- 60SA-1.27R	572-0675-1	60	43.45
FX2BA- 68SA-1.27R	572-0676-4	68	48.53
FX2BA- 80SA-1.27R	572-0677-7	80	56.15
FX2BA-100SA-1.27R	572-0678-0	100	68.85

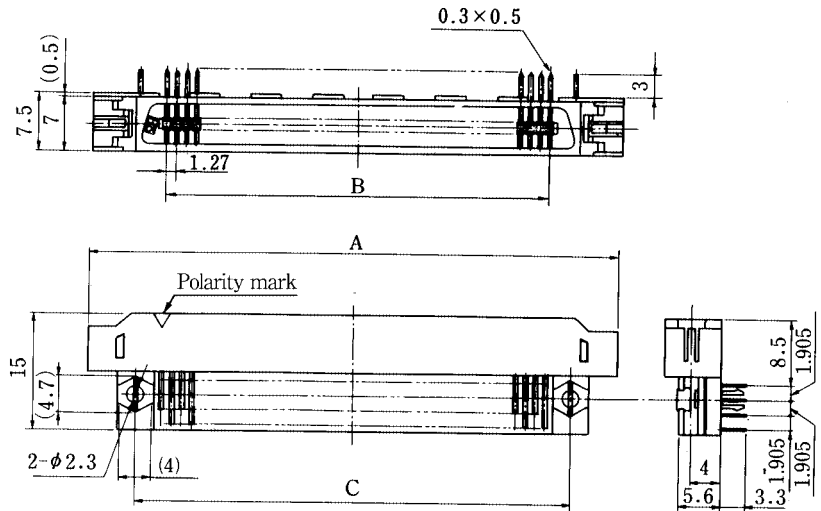
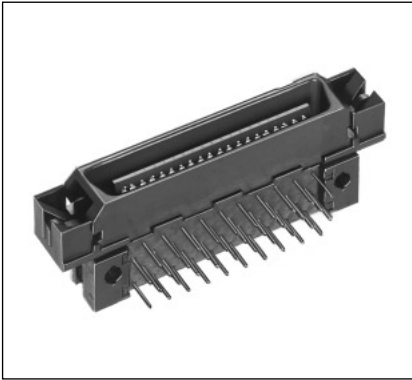
◆Connection Tool

Type	Part Number	CL No.
Guide plate	FX2B(A)-GPA	550-0212-6
Connection press	Hi-Flex connection press	550-0082-2

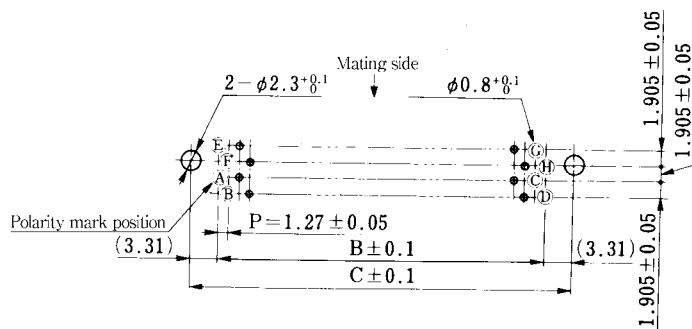
Note:HRS6 cable cutter FC601 isn't required for FX2B(A) connection.
(Connected without convex-concave cutting.)

■Header

●Right Angle Type for Lock



◆PCB mounting pattern



n= number of contacts

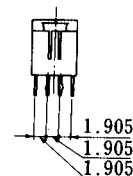
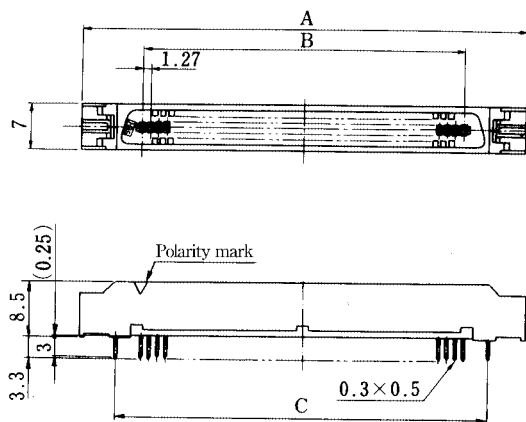
- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

Unit: mm

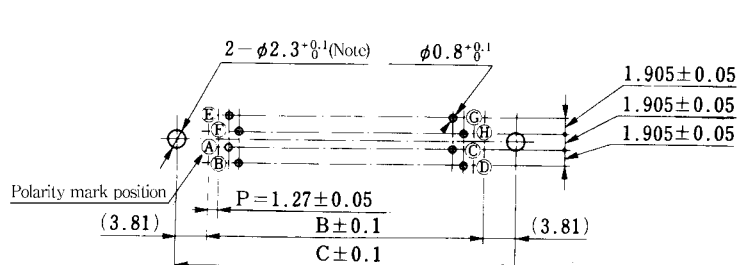
Part Number	CL No.	Number of Contacts	A	B	C
FX2B- 20PA-1.27DS	572-0721-7	20	30.33	11.43	18.05
FX2B- 20PA-1.27DSL	572-0771-5				
FX2B- 32PA-1.27DS	572-0722-0	32	37.95	19.05	25.67
FX2B- 32PA-1.27DSL	572-0772-8				
FX2B- 40PA-1.27DS	572-0723-2	40	43.03	24.13	30.75
FX2B- 40PA-1.27DSL	572-0773-0				
FX2B- 52PA-1.27DS	572-0724-5	52	50.65	31.75	38.37
FX2B- 52PA-1.27DSL	572-0774-3				
FX2B- 60PA-1.27DS	572-0725-8	60	55.73	36.83	43.45
FX2B- 60PA-1.27DSL	572-0775-6				
FX2B- 68PA-1.27DS	572-0726-0	68	60.81	41.91	48.53
FX2B- 68PA-1.27DSL	572-0776-9				
FX2B- 80PA-1.27DS	572-0727-3	80	68.43	49.53	56.15
FX2B- 80PA-1.27DSL	572-0777-1				
FX2B-100PA-1.27DS	572-0728-6	100	81.13	62.23	68.85
FX2B-100PA-1.27DSL	572-0778-4				

■Header No Cleaning Type

●Straight Type for Lock



◆PCB mounting pattern



n = number of contact

- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

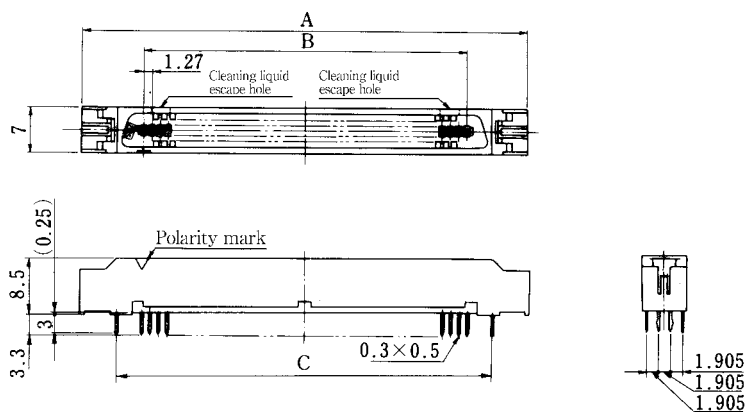
Note: Not required, unless the prefixed pin is attached.

Unit: mm

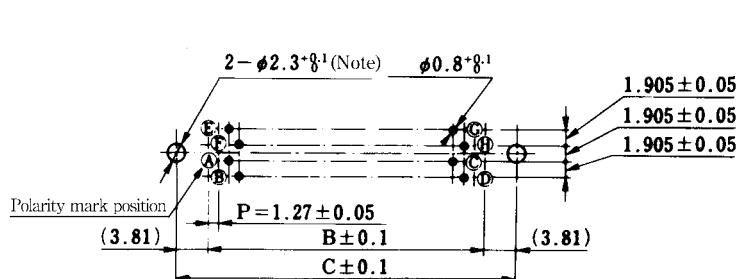
Part Number	CL No.	Number of Contacts	A	B	C
FX2B- 20PA-1.27DSA	572-0801-4	20	30.33	11.43	—
FX2B- 20PA-1.27DSAL	572-0851-2				19.05
FX2B- 32PA-1.27DSA	572-0802-7	32	37.95	19.05	—
FX2B- 32PA-1.27DSAL	572-0852-5				26.67
FX2B- 40PA-1.27DSA	572-0823-7	40	43.03	24.13	—
FX2B- 40PA-1.27DSAL	572-0873-5				31.75
FX2B- 52PA-1.27DSA	572-0824-0	52	50.65	31.75	—
FX2B- 52PA-1.27DSAL	572-0874-8				39.37
FX2B- 60PA-1.27DSA	572-0825-2	60	55.73	36.83	—
FX2B- 60PA-1.27DSAL	572-0875-0				44.45
FX2B- 68PA-1.27DSA	572-0826-5	68	60.81	41.91	—
FX2B- 68PA-1.27DSAL	572-0876-3				49.53
FX2B- 80PA-1.27DSA	572-0827-8	80	68.43	49.53	—
FX2B- 80PA-1.27DSAL	572-0877-6				57.15
FX2B-100PA-1.27DSA	572-0828-0	100	81.13	62.23	—
FX2B-100PA-1.27DSAL	572-0878-9				69.85

■Header Cleaning Type

●Straight Type for Lock



◆PCB mounting pattern



Note: Not required, unless the prefixed pin is attached

n= number of contacts

- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

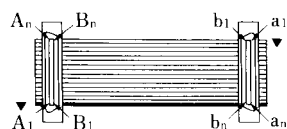
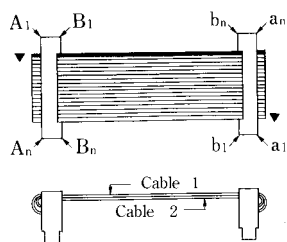
Unit: mm

Part Number	CL No.	Number of Contacts	A	B	C
FX2BA- 20PA-1.27DSA	572-0901-9	20	30.33	11.43	—
FX2BA- 20PA-1.27DSAL	572-0951-7				19.05
FX2BA- 32PA-1.27DSA	572-0902-1	32	37.95	19.05	—
FX2BA- 32PA-1.27DSAL	572-0952-0				26.67
FX2BA- 40PA-1.27DSA	572-0923-1	40	43.03	24.13	—
FX2BA- 40PA-1.27DSAL	572-0973-0				31.75
FX2BA- 52PA-1.27DSA	572-0924-4	52	50.65	31.75	—
FX2BA- 52PA-1.27DSAL	572-0974-2				39.37
FX2BA- 60PA-1.27DSA	572-0925-7	60	55.73	36.83	—
FX2BA- 60PA-1.27DSAL	572-0975-5				44.45
FX2BA- 68PA-1.27DSA	572-0926-0	68	60.81	41.91	—
FX2BA- 68PA-1.27DSAL	572-0976-8				49.53
FX2BA- 80PA-1.27DSA	572-0927-2	80	68.43	49.53	—
FX2BA- 80PA-1.27DSAL	572-0977-0				57.15
FX2BA-100PA-1.27DSA	572-0928-5	100	81.13	62.23	—
FX2BA-100PA-1.27DSAL	572-0978-3				69.85

◆ Connection Circuit Diagram

$$n = \frac{\text{Number of Contacts}}{2}$$

Type A, B



Connection to Cable 1

Connection to Cable 2

A1 ——— an

B1 ——— bn

A2 ——— an-1

B2 ——— bn-1

⋮

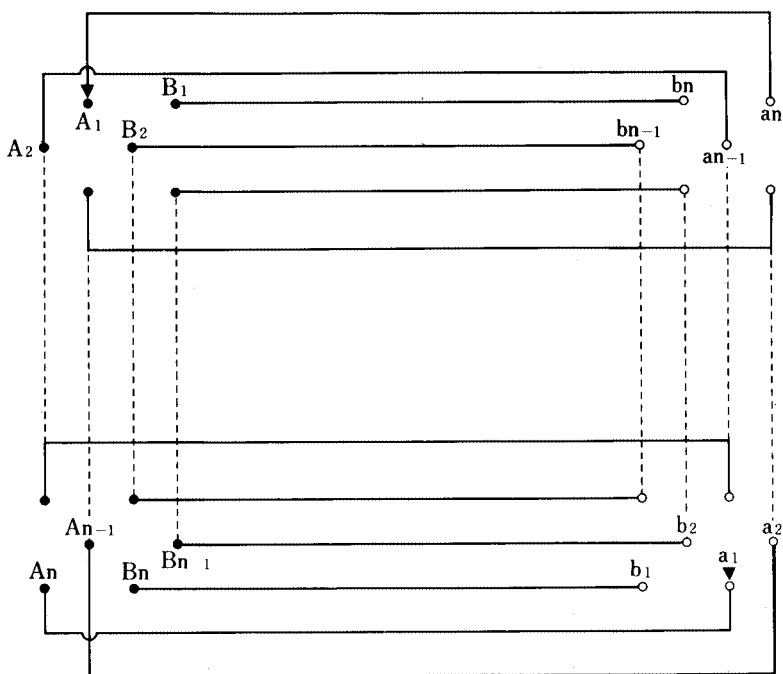
⋮

⋮

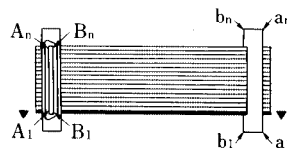
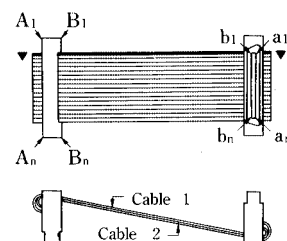
⋮

An ——— a1

Bn ——— b1



Type A, A



Connection to Cable 1

Connection to Cable 2

A1 ——— b1

B1 ——— a1

A2 ——— b2

B2 ——— a2

⋮

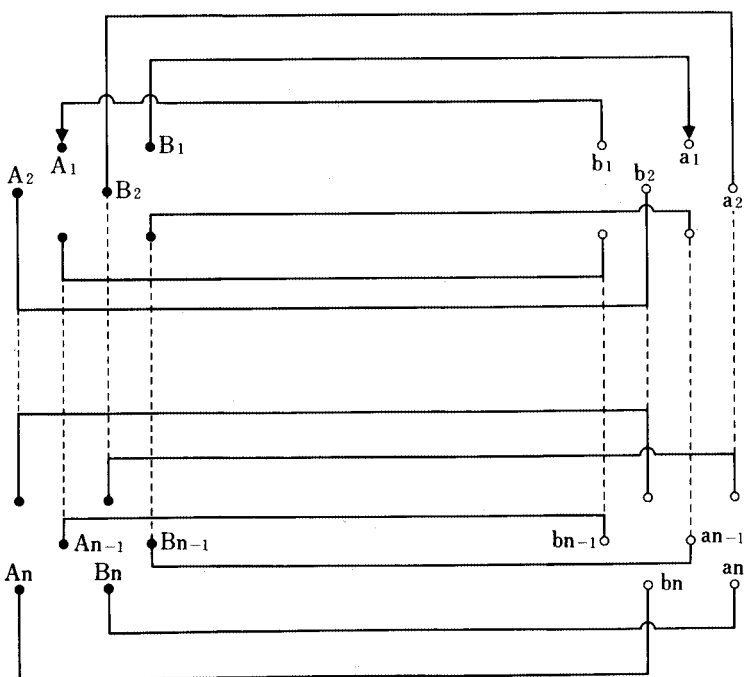
⋮

⋮

⋮

An ——— bn

Bn ——— an



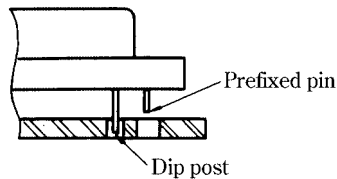
◆ Connector Use Hand book

1. Selecting connector

- ① The FX2 series is the perfect flux tight connector for the straight type in the soldering process, but it depends on the soldering process whether non-cleaning type (FX2C-*, FX2B-*) or cleaning type (FX2CA-*, FX2BA-*) should be selected. Please be sure to clean the right angle type (FX2-*, FX2B-*) connector. To clean the connector, please be sure to use detergent, containing no contaminant.
- ② To use the socket cable type, if a vibration or shock load is applied to the cable, select the lock type. In addition, if a load is applied to the cable, please be sure to use the cable clamp.

2. Prefixed Process to Board

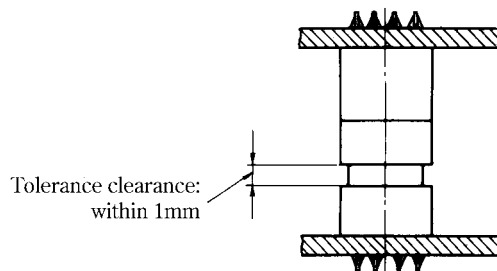
If the prefixed process is required for mounting the board, please use the prefixed pin type. (Applicable board thickness $t = 1.6 \pm 0.1$)



Note: In order to prevent the dip post breakage in the connector installation to the board, please insert the board in parallel to the connector so that the prefixed pin may be forcibly pushed in, after the dip post is guided to the board through-hole.

3. Mating Side Tolerance Clearance

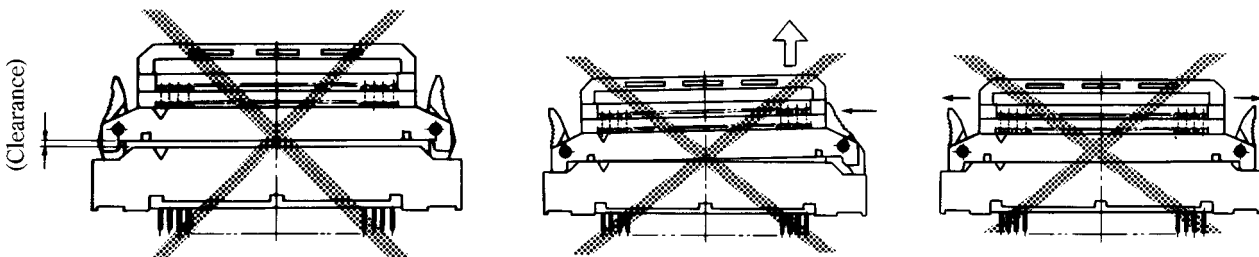
(Example) FX2C-*P-1.27DSA and FX2C-*S-1.27DSA



Set the tolerance clearance within 1mm to mate the male and female connectors.
(Except for the lock cable type)

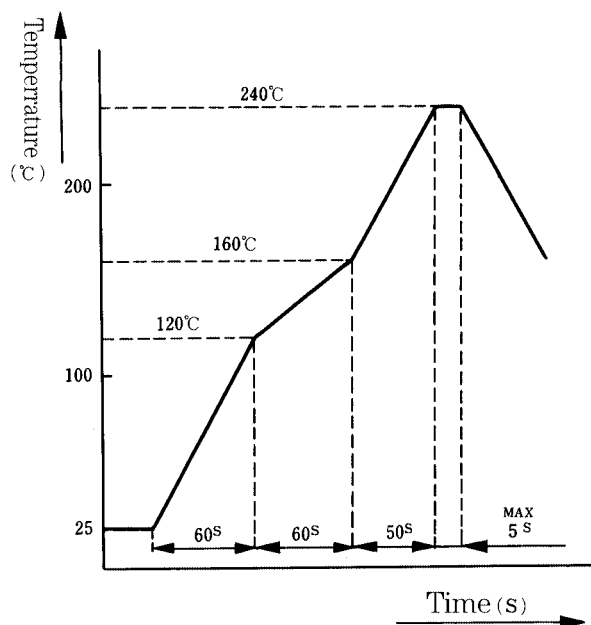
4. Cautions: for Using Lock Cable Type

- ① When the connector is mated, insert the connector by the end so as not to make a clearance.
- ② When the connector is inserted or extracted, please insert or extract the connector after the both lock levers are laid inside. If the connector is inserted or extracted with either lock lever laid, the connector may be broken.
- ③ please do not open the lock lever outside.



5. SMT Type Connector Mounting Temperature Profile (Reference)

● IR Reflow



Applicable Conditions

Reflow system

: IR reflow

Solder

: Paste type 63 Sn/37 Pb
(Flux content 11 wt%)

Test board

: Glass epoxy 110mm x 40mm x 1.6 mm

Metal mask thickness

: 0.2 mm (Straight type)
0.15mm (Right angle type)

Recommended temperature profile.

The temperature may be slightly changed according to the solder paste type and amount.

6. SMT Type Connector mated height

As shown in the application pattern, the mated height of the male/female connector doesn't contain the solder paste thickness. Thus, after the connector installation in the board, consider that the mated height will be widened in proportion to the solder paste thickness.