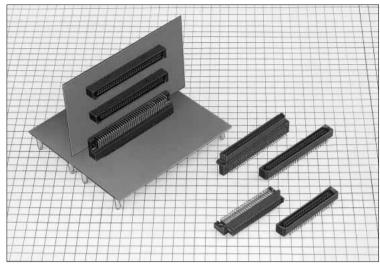
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

1.27mm Pitch Connector

FX1 Series



Features

1. High density and space saved-DIN Duplex Mount Achieved

The alignment of the mating area in 4-row allows to duplex the number of contacts in the nearly equivalent mount square as for the conventional DIN connector.(Refer to photo (1).)

2. High Current and High Voltage

Two-thirds of total contact numbers are used for half pitch signaling contact, while the other one-third thereof is used for the power ground contact. Power ground contact corresponds to high current (1A) and high voltage (250V).

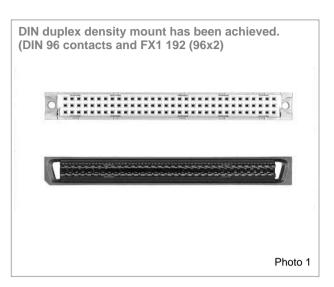
3. Sequence Structure

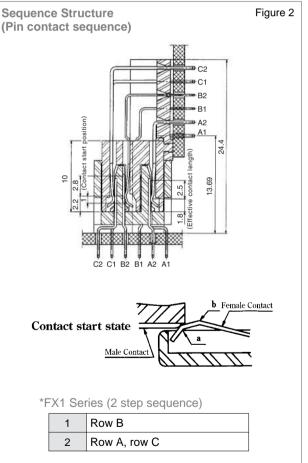
Considering insertion/extraction in active power mode and maintenance on the end user side, the FX1 series is designed in a mechanism that can afford the time different contact at two steps. (For details, refer to Figure (2) as shown on the right.)

4. Mis-insertion Prevent

Provide the insertion guide on both ends of connector, and widen an inductive area in order to prevent mis-insertion.







Setting row B to ground, if active cable insertion and extraction are performed as power supply, arc will occur between contact and contact. The row B contact structure is constructed to separate arc occurrence point a and normal contact point b, and minimizes affects on the contact. The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-**Prostrum** is a status of the products status on the Hirose website RoHS search at www.hirose-**Prostrum** is a status of the products status on the Hirose website RoHS search at www.hirose-**Prostrum** is a status of the products status on the Hirose website RoHS search at www.hirose-**Prostrum** is a status of the product of

■Product Specifications

Note 1) Storage Temperature Range -10 to +60°C(Note 2) Operating Humidity Range 40 to 70% (Note 2)
N

Item	Specification	Condition
1. Insulation Resistance	1000M ohms min.	250V DC
2. Withstanding Voltage	No flashover or insulation breakdown.	1 minute Signal contact 300V AC Power supply contact 600V AC
3. Contact Resistance	60m ohms max. (conductor resistance included)	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: 70m ohms max. Insulation resistance: 1000M ohms min.	96 hours at temperature of $40^\circ C$ and humidity of 90% to 95%
6. Temperature Cycle	Contact resistance: 70m ohms max. Insulation resistance: 1000M ohms min.	(-55°C: 30 minutes→15- to 35°C: 5 minutes max.→ 85°C: 30 minutes→15- to 35°C: 5 minutes max.) 5 cycles
7. Durability (Mating/un-mating)	Contact resistance: 70 m ohms max.	500 cycles

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.

Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

Material

●FX1 Series

	Parts	Material	Finish	Remarks
Inculator	Header	PPS	Diask	UL94V-0
Insulator	Receptacle	PPS/ PTB	Black	0L94V-0
	Straight header	Brass		
Contact	Right angle header	Phosphor bronze	Contact area:Tin plated Lead area:Tin plated	
	Receptacle	Phosphor bronze		
Prefixed pin Phosphor		Phosphor bronze	Tin plated	

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Ordering Information

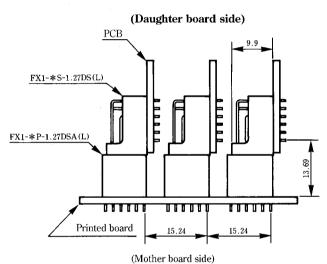
●FX1 Series

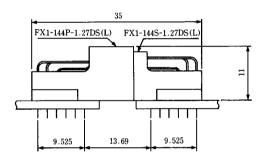
FX1	- 192	Ρ	- 1.4	2/ 1	J2 A	L
0	0	3	4		6	6
Series Name : FX1					ontact pi	tch: 1.27mm
Number of contacts: 144,	192, 216			6 Co	ontact ty	pe: DS : Right angle
Connector type : P-header						DSA : Straight
: S-rec	ceptacle			6 L:	Board p	orefixed pin

Note: The cleaning type only is applied on the header side to FX1 series.

`*L*A

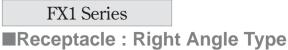
Application Pattern



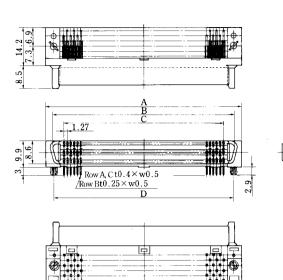


Note: FX1V series is designed similar

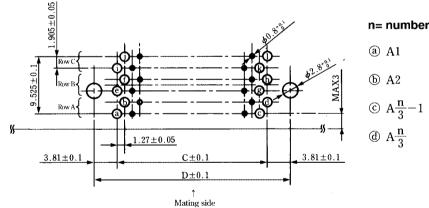
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● PCB mounting pattern Applicable board thickness t=1.6mm



n= number of contacts						
(a) A1	@ B1	(i) C1				
b A2	① B2	(j) C2				
$\bigcirc A\frac{n}{3}-1$		$ c \frac{n}{3} - 1 $				
$\bigcirc A\frac{n}{3}$	(h) $B\frac{n}{3}$	(1) $C\frac{n}{3}$				

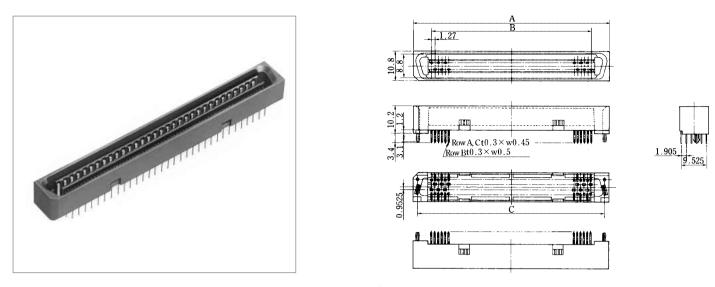
				-			Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	RoHS
FX1-144S-1.27DS(71)	571-0003-7-71		70.00	<u> </u>	50.00		
FX1-144S-1.27DSL(71)	571-0053-5-71	144	73.29	68.08	59.69	67.31	
FX1-192S-1.27DS(71)	571-0004-0-71	102	02.04	00.4	00.01		YES
FX1-192S-1.27DSL(71)	571-0054-8-71	192	93.61	88.4	80.01	87.63	
FX1-216S-1.27DS(71)	571-0005-2-71	216	103.77	09 56	90.17		
FX1-216S-1.27DSL(71)	571-0055-0-71	210	103.77	98.56	90.17	97.79	

9.525

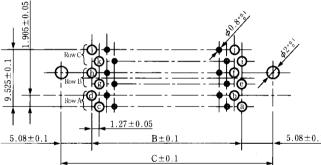
1.905

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Header : Straight Type



● PCB mounting pattern Applicable board thickness t=1.6mm



• If no board prefixed pin is used, $\phi 2$ is not required on the board.

	(b) A2	① B2	① C2
	$\odot A\frac{n}{3}-1$	\textcircled{B} $B\frac{n}{3}-1$	$\& C\frac{n}{3}-1$
8±0.1	(d) $A\frac{n}{3}$	(h) $B\frac{n}{3}$	① $C\frac{n}{3}$

@ B1

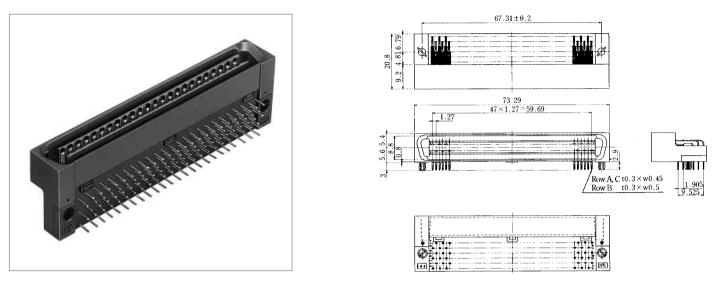
(i) C1

n= number of contacts

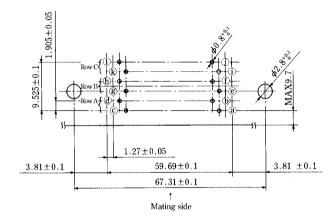
(a) A1

						Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	RoHS
FX1-144P-1.27DSA(71)	571-0303-0-71	1.1.1	72.00	50.00		
FX1-144P-1.27DSAL(71)	571-0353-9-71	144	73.29	59.69	69.85	
FX1-192P-1.27DSA(71)	571-0304-3-71	192	02.61	90.01		YES
FX1-192P-1.27DSAL(71)	571-0354-1-71	192	93.61	80.01	90.17	
FX1-216P-1.27DSA(71)	571-0305-6-71	216	102 77	00.17		
FX1-216P-1.27DSAL(71)	571-0355-4-71	210	103.77	90.17	100.33	

■Header : Right Angle Type



● PCB mounting pattern Applicable board thickness t=1.6mm



n= number of contacts						
(a) A1	@ B1	(i) C1				
(b) A2	① B2	(j) C2				
\bigcirc A $\frac{n}{3}$ -1	(g) $B\frac{n}{3}-1$	$\& C\frac{n}{3}-1$				
	(h) $B\frac{n}{3}$	1) $C\frac{n}{3}$				

Part Number	CL No.	Number of Contacts	RoHS
FX1-144P-1.27DS(71)	571-0203-6-71	144	YES
FX1-144P-1.27DSL(71)	571-0253-4-71	144	TEO

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Precautions

1. Soldering

(1)In the case of manual soldering, complete services under the condition of soldering iron bit temperature below 360°C for 5 seconds max. Please be sure to coat the contacts with solder so that no force is given.

(2)In the case of dip soldering bath, complete service under the condition of soldering iron bit temperature below 260℃ for 10 seconds max.

2. Prefixed function

If the prefixed function is required, please use to the board prefixed pin type.

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