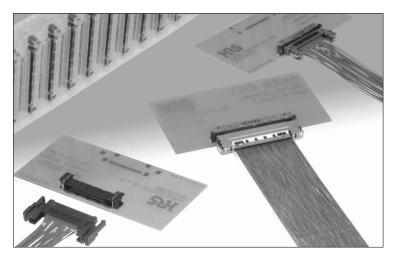
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at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

1mm Pitch Cable-to-Board Connectors supporting LVDS signal

FX15 Series



Features

1. Space saving

Reduction in space is achieved by designing the contacts in 2-row staggered 1 mm pitch on the mating side and on a single row 0.5 mm pitch on the termination side (Fig. 1).

2. Equal length transmission lines

Contact configuration creates equal length transmission lines preventing deterioration of LVDS signal within the connector (Fig.1).

3. Different types

Availability of types with or without metal shields allows flexibility of applications and cost reduction.

4. Self alignment and self-guiding

Built-in guide posts allow secure self-alignment within $\pm 1.5 \mbox{ mm}$ (Fig.2).

5. Secure and complete mating / unmating

Side latch-locks assure and confirm complete and secure mating of plugs to receptacles while permitting ease of disconnection (Fig. 3).

6. Enhanced shielding effectiveness

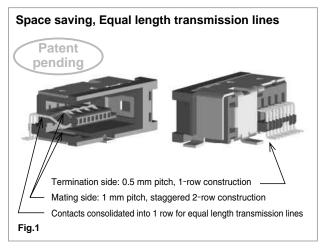
Availability of version with enlarged metal shields (preventing intrusion or emission of the electromagnetic interference) further protects the integrity of LVDS signal (FX15S series, Fig.4)

7. RoHS compliant

All components and materials comply with the reqirements of EU Directive 2002/95/EC.

Applications

FPD-TV, FPD panels and other applications requiring secure and reliable connection and transmission signal integrity.



Self-alignment of ±1.5 mm Large guide post

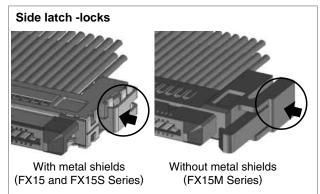
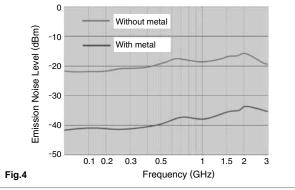


Fig.3

High Shielding Effectiveness



■Product Specifications

D ution	Current rating	0.5A	Operating temperature range	-55℃ to +80℃ (Note 1)
Ratings	Voltage rating	100V AC	Storage temperature range	-10℃ to +60℃ (Note 2)

Item	Specification	Conditions		
1. Contact resistance	60 m ohms max. (Note 3)	1 mA		
2. Insulation resistance	500 M ohms min.	100V DC		
3. Withstanding voltage	No flashover or insulation breakdown.	300V AC/one minute		
4. Insertion-Extraction force	0.2N min., 30N max.	With corresponding connector		
5. Durability	Contact registeres, 20 m shine may (Note 2)	50 system		
(mating/un-mating)	Contact resistance: 80 m ohms max (Note 3)	50 cycles		
6. Vibration	No electrical discontinuity of 1 μ s or more.	Frequency: 10 to 55 Hz, single amplitude of 0.76mm, 2 hours, 3 axis		
7. Shock	No electrical discontinuity of 1 μ s or more.	Acceleration of 490m/s ² , 11ms durations, sine half-wave waveform, 3 cycles, 3axis.		
8. Humidity	Contact resistance: 80 m ohms max.	00 hours at 40% DU 00% to 05%		
	No damage, cracks, or parts dislocation.(Note 3)	96 hours at 40°C, RH 90% to 95%		
9. Temperature cycle	Contact resistance: 80 m ohms max. (Note 3)	Temperature : -55° C $\rightarrow +15^{\circ}$ C to $+35^{\circ}$ C $\rightarrow +85^{\circ}$ C $\rightarrow +15^{\circ}$ C to $+35^{\circ}$ C		
	Insulation resistance: 500 M ohms min.	Time : $30 \rightarrow 5 \rightarrow 30 \rightarrow 5$ (Minutes) 5 cycles		
10. Calt annual	Contact resistance: 80 m ohms max. (Note 3)	50/ water colution for 40 hours		
10. Salt spray	No corrosions	5% water solution for 48 hours.		

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: Includes wire conductor resistance (12mm long).

Note 4: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

Materials and Finishes

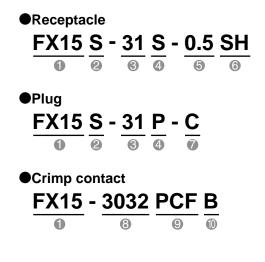
Receptacle

Component	Material	Finish	Remarks
Insulator	Polyamide	Polyamide Color: Black	
Contact	Dhoonhor bronzo	Contact area: Gold plated	
Contact	Phosphor bronze	Termination area: Tin plated	
Metal shields (with shields)	FX15S : Nickel silver	FX15S :	
Metal Shields (with Shields)	FX15SC : Stainless steel	FX15SC : Tin plated	
Metal fittings (without shields)	Phosphor bronze	Selective gold flash plated	

Plug

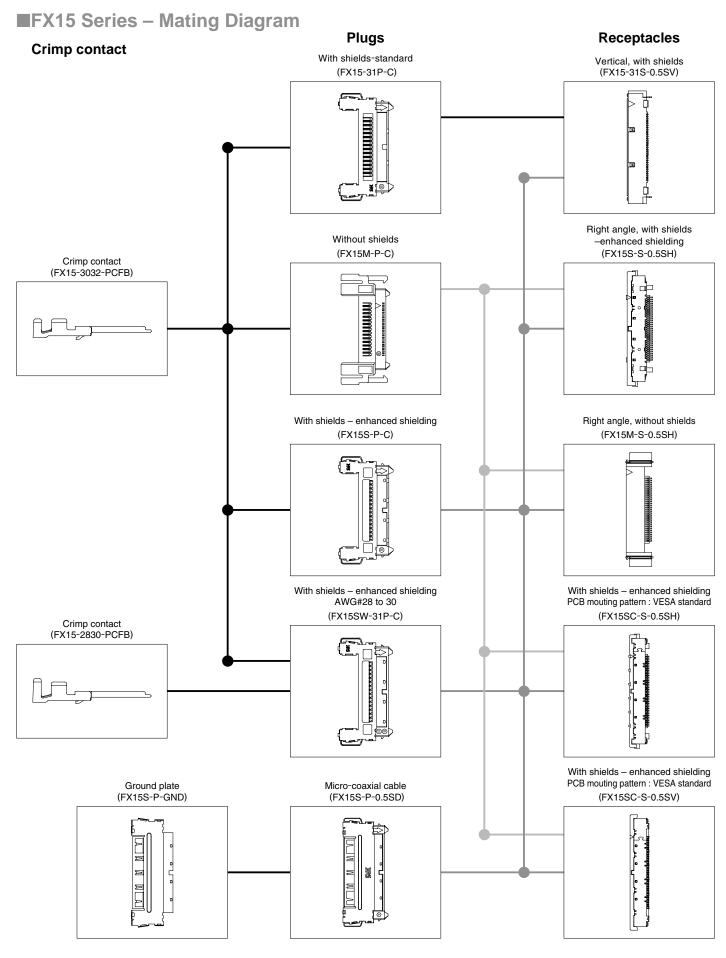
Component	Material	Finish	Remarks	
Insulator	Polyamide	Color: Black	UL94V-0	
Contract	Dheenber brenze	Contact area: Gold plated		
Contact	Phosphor bronze	Termination area: Tin plated		
Metal shields (with shields)	Nickel silver			
Metal latch-locks (with shields)	Stainless steel			
Metal shields, metal latch-looks	Stainless steel	Niekol plotod		
(micro-coaxial cable)	Starness steel	Nickel plated		

Ordering information



Series Name		: FX15
Configuration	Blank	: With shields (or crimp contact)
	15S	: With shields – enhanced shielding
	15SC	: With shields – enhanced shielding
		(PCB mounting pattern : VESA standard)
	15M	: Without shields
Number of contacts		
Connector type	Р	: Male contact
	S	: Female contact
Contact pitch		: 0.5 mm
Housing configuration	SH	: Right angle
	SV	: Straight
Termination	С	: Crimp
	0.5SD	: Micro-coaxial cable
	GND	: Separate ground plate
Applicable conductor	2830	: AWG 28 to 30
	3032	: AWG 30 to 32
Packaging	PCF	: Reel/ plug contact
Plating (contact area)	В	: Gold plated

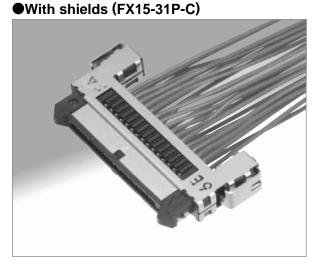
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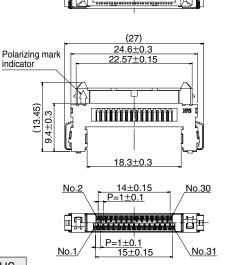


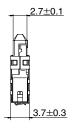
Ragarding the availability of the positions, contact your nearest Hirose representative.

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Plugs







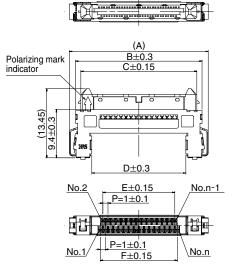
Part number	CL No.	Number of contacts	RoHS
FX15-31P-C	CL575-2101-2	31	YES

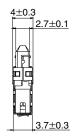
Note 1: Packaged in trays.

Note 2: Dimensions in parenthesis () are reference dimensions.

●With shields, enhanced shielding (FX15S-**P-C)





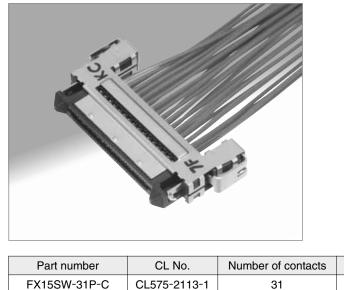


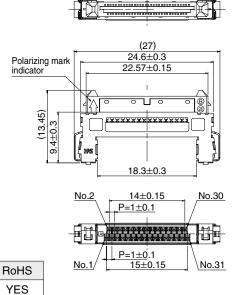
Part number	CL No.	Number of contacts	А	В	С	D	E	F	RoHS
FX15S-31P-C	CL575-2106-6	31	27	24.6	22.6	18.3	14	15	
FX15S-41P-C	CL575-2107-9	41	32	29.6	27.6	23.3	19	20	YES
FX15S-51P-C	CL575-2103-8	51	37	34.6	32.6	28.3	24	25	

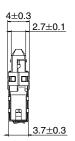
Note 1: Packaged in trays.

Note 2: Dimensions in parenthesis () are reference dimensions.

•With shields – enhanced shielding AWG#28 to 30 (FX15SW-31P-C)



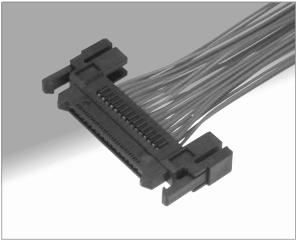


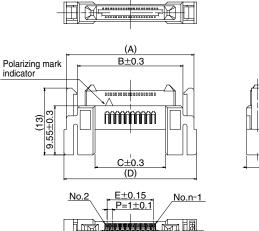


Note 1: Packaged in trays.

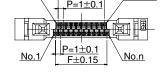
Note 2: Dimensions in parenthesis () are reference dimensions.

•Without shields (FX15M-**P-C)









Part number	CL No.	Number of contacts	Α	В	С	D	E	F	G	RoHS
FX15M-21P-C	CL575-2109-4	21	24.8	20.5	17.6	13.7	25.8	9	10	YES
FX15M-31P-C	CL575-2108-1	31	29.8	25.5	22.6	18.7	30.8	14	15	TES

Note 1: Sold in package containing 100 pieces. Order by package. Note 2: Dimensions in parenthesis () are reference dimensions. 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-RoH& x39:05: Pressbeen distribution of catalogic discussion of contact your Hirose sales representative.

Plug crimp contacts

Part number	CL No.	Packaging	Quantity	Finish	RoHS
FX15-2830PCFB	CL575-2002-0	Deel		Cold plated	YES
FX15-3032PCFB	CL575-2003-3	Reel	20,000 pieces per reel	Gold plated	TEO

•Applicable cable (Tin plated solid soft strands)

FX15-2830PCFB

Applicable wire size (Stranded wire conductor)	Jacket diameter	UL No.
AWG #28 (7/0.127 mm)	10 E6 to 0 70mm	1517
AWG #30 (7/0.1 mm)	ϕ 0.56 to 0.72mm	1571

FX15-3032PCFB

Applicable wire size (Stranded wire conductor)	Jacket diameter	UL No.
AWG #30 (7/0.1 mm)	40 E to 0 6mm	1516, 1571 (Note)
AWG #32 (7/0.08 mm)	φ0.5 to 0.6mm	1571

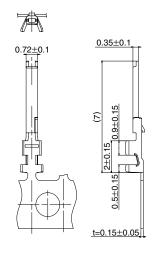
•Wire strip length: 1.1 to 1.8 mm

Note: When using other than the recommended wire, contact your nearest Hirose representative.

Tools

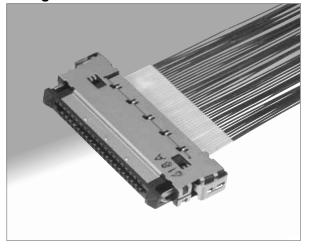
Item	Product number	CL No.	Applicable crimp contact
Applicator	AP105-FX15-2830	901-4036-0	FX15-2830PCFB
Applicator	AP105-FX15-3032	901-4033-1	FX15-3032PCFB
Press unit	CM-105	901-0005-4	

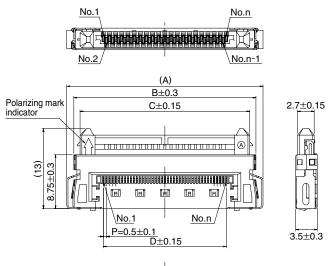
Note: Consult HRS representative when using applicator.



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●Plug – Micro-coaxial cable (FX15SC-**P-0.5SD)





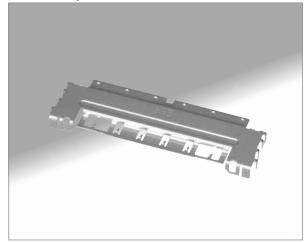


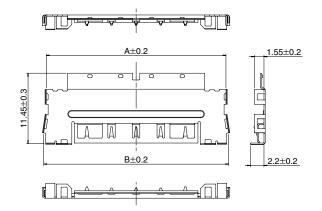
Part number	CL No.	Number of contacts	А	В	С	D	RoHS
FX15S-41P-0.5SD	CL575-2110-3	41	31.9	29.6	27.57	20	YES
FX15S-51P-0.5SD	CL575-2118-5	51	36.9	34.6	32.57	25	TEO

Note 1: Packaged in trays.

Note 2: Dimensions in parenthesis () are reference dimensions.

•Ground plate for micro-coaxial cable





Part number	CL No.	Number of contacts	А	В	RoHS
FX15S-41P-GND	CL575-2111-6	41	29.2	30.06	YES
FX15S-51P-GND	CL575-2117-2	51	34.2	35.06	TEO

Note 1: Packaged in trays.

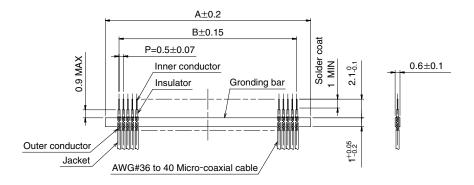
Note 2: Dimensions in parenthesis () are reference dimensions.

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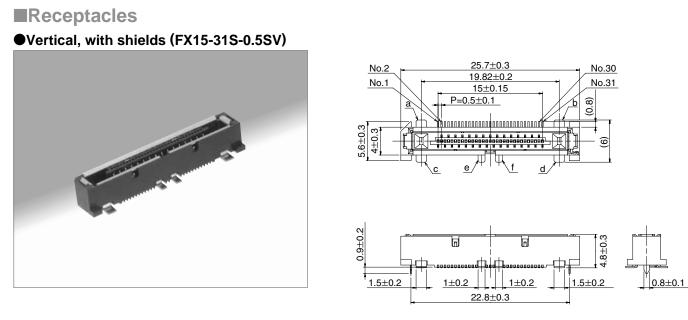
•Applicable cable (Micro-coaxial cable)

Wire (Standed wire in		ctor)	Jacket diameter
AWG #36 (7/0.05 mm)		
AWG #38 (7/0.04 mm)		0.3mm to 0.5mm
AWG #40 (7/0.03 mm)		
Number of contacts	А	В	
41	23.1	20	
51	28.1	25	

●Cable preparation

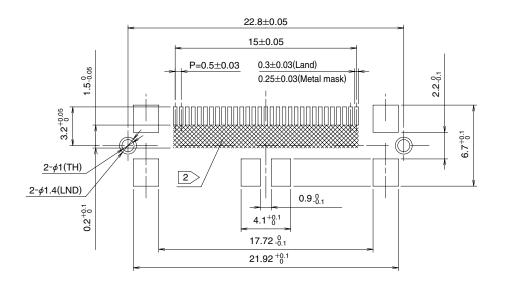


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Part number	CL No.	Number of contacts	RoHS
FX15-31S-0.5SV	CL575-2201-7	31	YES

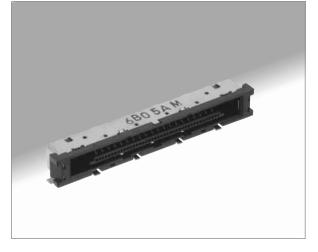
Recommended PCB mounting pattern and metal mask dimensions

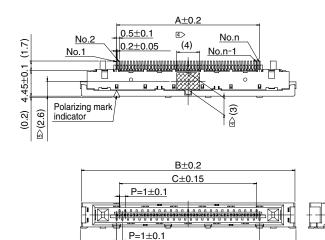


- Note 1 :The co-planarity of the terminal leads is as follows:
 - \cdot All signals and shield leads "c" and "d": 0.1mm max.
 - Shield leads "a", "b", "e" and "f": 0.15 mm max.
 - 2: Area indicated by the crosshatched lines must be free of conductive traces or the conductive traces must be covered by resist film.
 - 3 : Packaged on tape-and-reel, 1000 pieces per reel.
 - 4 : Dimensions in parenthesis () are reference dimensions.

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Right angle with shields – enhanced shielding (FX15S-**S-0.5SH)



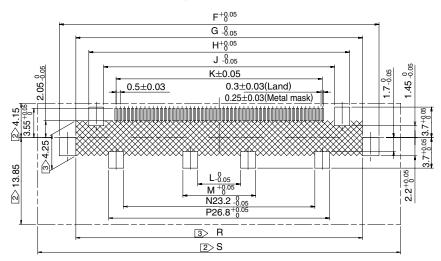


D±0.15 E±0.3



Part number	HRS No.	Number of contacts	A	В	С	D	Е	F	G	Н	
FX15S-31S-0.5SH	CL575-2306-5	31	15	27.4	14	15	27.8	28.8	24.8	21.6	\Box
FX15S-41S-0.5SH	CL575-2307-8	41	20	32.4	19	20	32.8	33.8	29.8	26.6	\square
FX15S-51S-0.5SH	CL575-2303-7	51	25	37.4	24	25	37.8	38.8	34.8	31.6	
								_			
			J	K	L	M	N	Р	R	S	RoHS
)-	J 18	К 15	L 	M	N 13.2	P 16.8	R 24.8	S 40	RoHS
			-		L 5.2	M 8.8		•		-	RoHS YES

Recommended PCB mounting pattern and metal mask dimensions

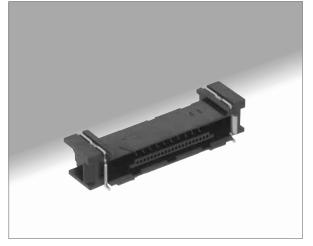


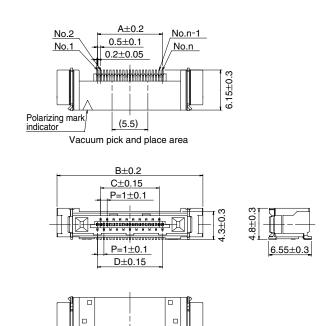
Note 1 : The coplanarity of the terminal leads is 0.1 mm max. for all signal leads and 0.15 mm max. for the shield leads.

- 2: Do not place any components in the area indicated. Placement of components in this area may affect mating and latch lock operation.
- 3: Area indicated by the cross-hatched lines must be free of conductive traces or the conductive traces must be covered by resist film.
- 4: The area marked indicates vacuum pick-and-place area for board placement with automatic equipment.
- 5>: Vacuum pick-up area
- 6 : Packaged on tape-and-reel, 1000 pieces per reel.
- 7 : Dimensions in parenthesis () are reference dimensions.

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Right angle, without shields (FX15M-**S-0.5SH)

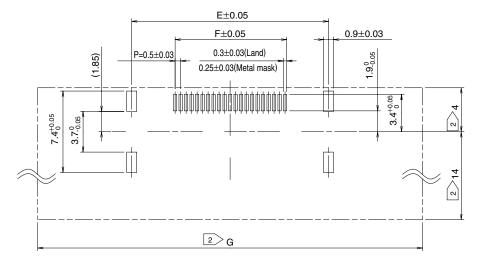




LANANANANANANANANANA

Part number	HRS No.	Number of contacts	Α	В	С	D	E	F	G	RoHS
FX15M-21S-0.5SH	CL575-2309-3	21	10	22.4	9	10	17.9	10	35	YES
FX15M-31S-0.5SH	CL575-2308-0	31	15	27.4	14	15	22.9	15	40	TES

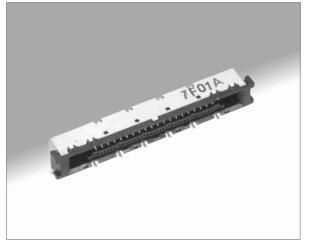
Recommended PCB mounting pattern and metal mask dimensions

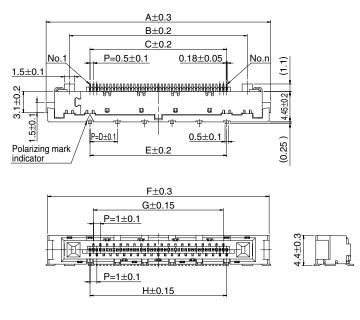


Note 1 : The co-planarity of all terminal leads is 0.1 mm max.

- 2: Do not place any components in the area indicated. Placement of components in this area may affect mating and latch lock operation.
- 3 : Packaged on tape-and-reel, 1000 pieces per reel.

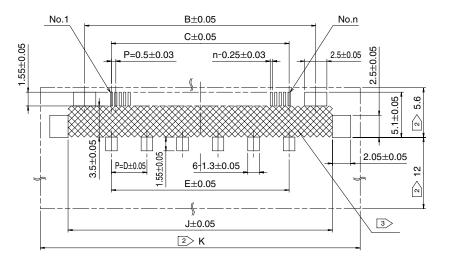
Right angle with shields – enhanced shielding (FX15SC-**S-0.5SH) PCB mounting pattern : VESA standard





Part number	HRS No.	Number of contacts	А	В	С	D	Е	F	G	Н	J	К	RoHS
FX15SC-41S-0.5SH	CL575-2310-2	41	32.85	26	20	4	20	32.4	19	20	29.75	45	VEO
FX15SC-51S-0.5SH	CL575-2311-5	51	37.85	31	25	5	25	37.4	24	25	34.75	50	YES

Recommended PCB mounting pattern and metal mask dimensions

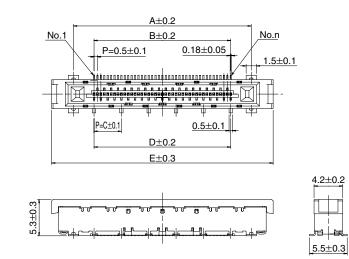


- Note 1 : The coplanarity of the terminal leads is 0.1 mm max.
 - 2: Do not place any components in the area indicated. Placement of components in this area may affect mating and latch lock operation.
 - 3: Area indicated by the cross-hatched lines must be free of conductive traces or the conductive traces must be covered by resist film.
 - 4 : Packaged on tape-and-reel, 1000 pieces per reel.
 - 5 : Dimensions in parenthesis () are reference dimensions.

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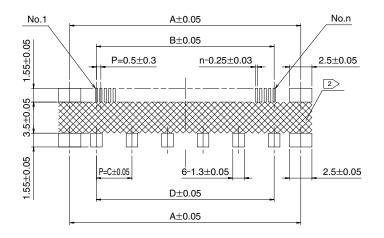
•Vertical with shields – enhanced shielding (FX15SC-**S-0.5SV) PCB mounting pattern : VESA standard





Part number	CL No.	Number of contacts	А	В	С	D	E	RoHS
FX15SC-41S-0.5SV	CL575-2205-8	41	26	20	4	20	32.4	VEO
FX15SC-51S-0.5SV	CL575-2204-5	51	31	25	5	25	37.4	YES

Recommended PCB mounting pattern and metal mask dimensions



Note 1 : The coplanarity of the terminal leads is 0.1 mm max.

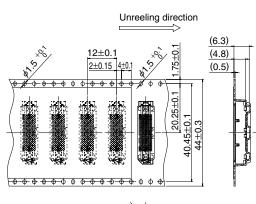
- 2: Area indicated by the cross-hatched lines must be free of conductive traces or the conductive traces must be covered by resist film.
- 3 : Packaged on tape-and-reel, 1000 pieces per reel.

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■Packaging Specifications

•Vertical, with shields (FX15-31SC-0.5SV)

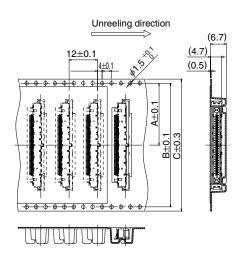
Part number	HRS No.	Number of contacts	D
FX15-31S-0.5SV	CL575-2201-7	31	44.5





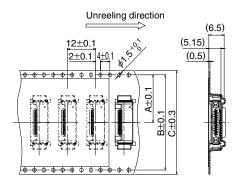
Right angle, with shields-enhanced shielding (FX15S-**S-0.5SH)

Part number	HRS No.	Number of contacts	Α	В	С	D
FX15S-31S-0.5SH	CL575-2306-5	31	20.3	40.5	44	44.5
FX15S-41S-0.5SH	CL575-2307-8	41	26.3	52.5	56	56.5
FX15S-51S-0.5SH	CL575-2303-7	51	26.3	52.5	56	56.5

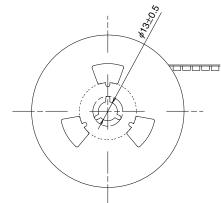


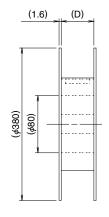
Right angle, without shields (FX15M-**S-0.5SH)

-	-					
Part number	HRS No.	Number of contacts	Α	В	С	D
FX15M-21S-0.5SH	CL575-2309-3	21	20.2	40.4	44	44.5
FX15M-31S-0.5SH	CL575-2308-0	31	20.2	40.4	44	44.5



Reel dimensions



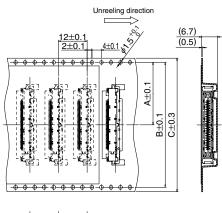


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$\bullet Right angle with shields - enhanced shielding$

(FX15SC-**S-0.5SH)

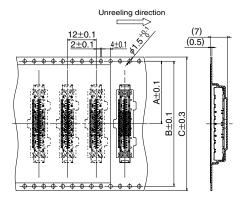
Part number	HRS No.	Number of contacts	А	В	С	D	RoHS
FX15SC-41S-0.5SH	CL575-2310-2	41	26.2	52.4	56	56.5	VES
FX15SC-51S-0.5SH	CL575-2311-5	51	26.2	52.4	56	56.5	163



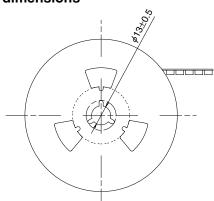


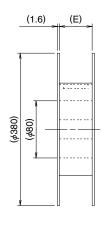
Vertical with shields – enhanced shielding (FX15SC-**S-0.5SV)

Part number	HRS No.	Number of contacts	А	В	С	D	RoHS	
FX15SC-41S-0.5SV	CL575-2205-8	41	26.2	52.4	56	56.5	VEO	
FX15SC-51S-0.5SV	CL575-2204-5	51	26.2	52.4	56	56.5	.5	



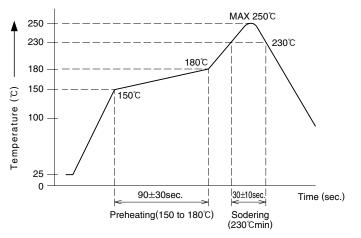
Reel dimensions

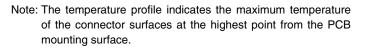




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Recommended temperature profile





Cleaning recommendations

Organic solvent cleaning

Solvent type	Room temperature cleaning	Heated cleaning
IPA (Isoporopyl alcohol)	YES	YES
HCFC (Hydrochlorofluorocarbon)	YES	YES

Water based cleaning

When using water based cleaning agents (e.g., terpene, alkali saponifiers), select the cleaning agent based on the documentation issued by the various manufacturers of cleaning agents which describes it's affects on metals, platings and plastics. Remove any moisture after cleaning. Residual flux or cleaning agents in the contact areas may affect electrical performance.

HRS test conditions

Test boardGlass epoxy	40mm×30mm×1mm thick
Solder method	:Reflow
Solder composition	:Paste,
	96.5%Sn/3%Ag/0.5%Cu
Metal mask	: 0.12mm thick
Reflow cycles	: 2 cycles

The temperature profile is based on the above conditions.

In individual applications the actual temperature may vary, depending on solder paste type, volume/thickness and board size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations. The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

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Precautions and recommendations

Wire termination

The following documents will be needed in order to perform the cable terminations.

(1)Basic cable termination and crimp requirements (general explanations).

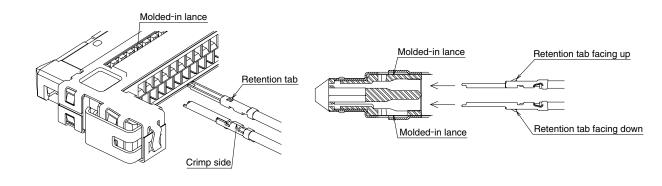
②Contact crimp termination machine instruction manual (Explanation of the press)

- $\textcircled{3}\$ Applicator parts installation table (Applicator installation explanation)
- (4) Crimp conditions table (Crimp height/Tensile strength standard values)
- ⑤Crimp quality fundamentals manual (Bell-mouth dimensions, bent up, bent down, rolling, etc.)
- * Correct cable preparation and crimp termination is based on understanding and following the procedures in the above documents.
- Insertion of the crimp contacts in the housing

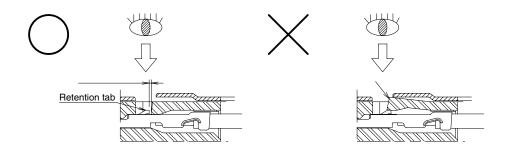
Crimp contacts are inserted in the housing as illustrated below.

Exercising caution when inserting, align the retention tab of the contact with the corresponding molded-in lance in the housing's contact cavity and push the contacts in.

Make sure that the contact is fully inserted and the retention tab clears the molded-in lance.



◆Verify that the retention tabs clear the molded-in lances as shown on the illustration below.



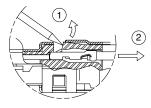
Light pull on the wire, with force NOT EXCEEDING 3N will also verify the correct contact insertion.

◆Removal of the contacts

Using sharp-pointed tool of appropriate size gently lift the molded-in tab and pull-out the terminated contacts.

Excersize caution as NOT to damage the molded-in lance.

Should the damage occur, the entire housing will need to be replaced.



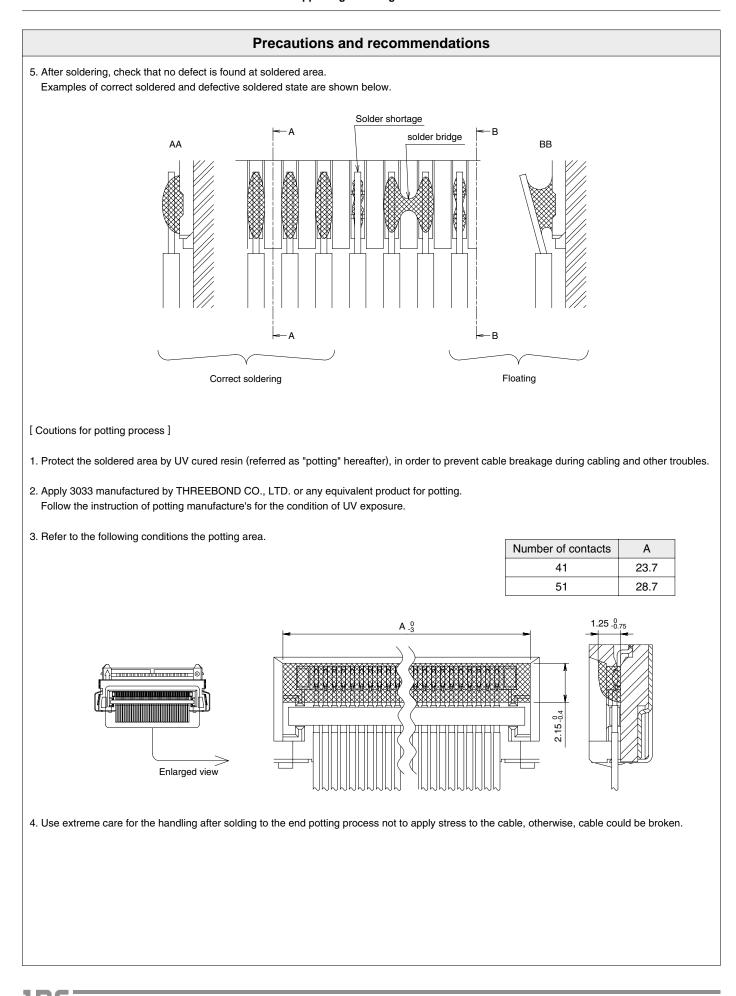
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	Precautions and recommendations
[Soldering precautions related to FX15S-**P-C	C connectors]
 ◆Grounding Methods of the ground wire or shield ①Solder the ground wire or the shields ONLY i ②Observe the soldering iron tip temperature ar ③Do not apply excessive force to the connecto ④Do not splatter the flux from the solder core. 	in the areas specifically designated for this purpose, as shown on the illustrations below. nd soldering time specified.
	Soldering area 2
Soldering area 1	C C C C C C C C C C C C C C C C C C C
	(Ground harness examples)

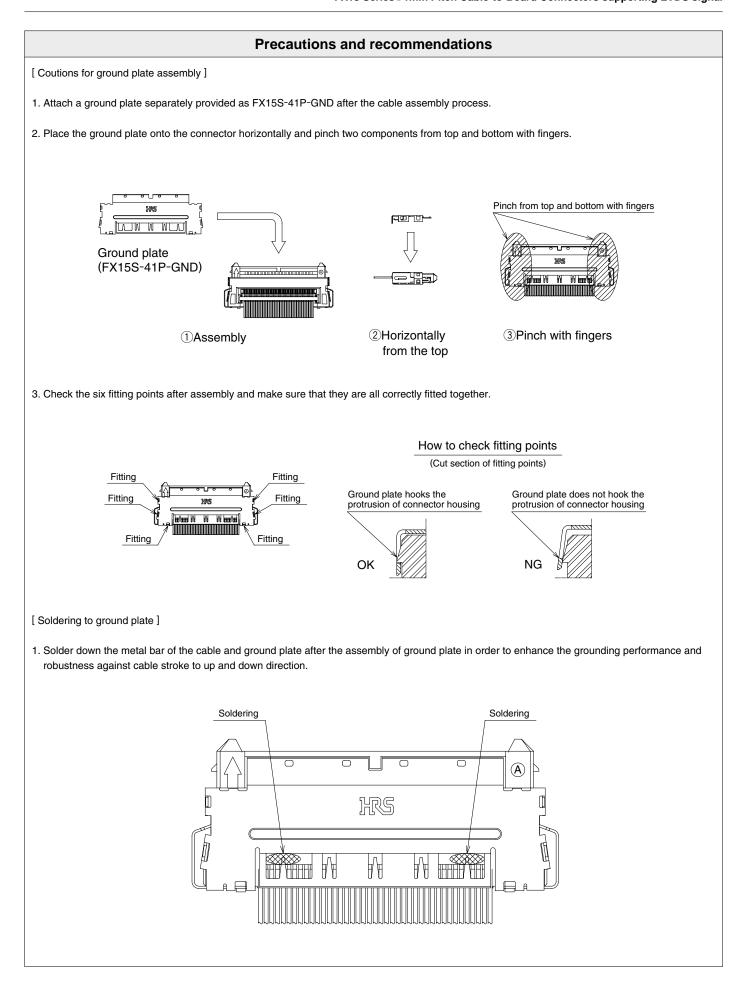
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			Precautions and	d recom	mendation	าร			
♦Plug – mic	cro-coaxial cable								
Coutions for	or soldring]								
1. For the m before as		e assembled to this c	onnector, cable alignm	nent process	s as shown in '	'Recommen	ded cable"	on the pa	age 1 is requ
	an inadequate ca		ncluding misalignment assembly to the conne			-		-	ldering to def
②Minimiz	the length of o	uter conductor beyor	nd the ground the bar.		*	— п п	Π Π Γ /	Inner con	
Its over	r length will cause	tra cable shall be 2.1 e the cable touching ause defective produc	the connector body		©			④Solder Gro	unding bar
Minima	I length 2.0 mm i	is a recommended di	mension and allowed ring good solderability.						
<pre>④Pre-sol</pre>	der and coat the	inner conductor at th	e cable end.		0			\Outer co	onductor
mm dia. (If you cor	Lead-free: Sn-34					μµ!	JWW		
3. Place the	-	t area will cause con nector and check the oly machine.							
	ment of cable en ive floating of cal	d to the terminals in p ble end	bitch direction						
4. Follow the soldering.		temperature profile s	hown below for the		①Misaligr	ー しししし	direction	٦	floating
			nding on various includ ne condition if necessa		cable and its le	ength, solder	r type. Thei	refore ref	er to the
				I					
		1		265°C		/	Heating	3	
	Solder tip pressurization	13~17N		250°C	Pre-heatin	g		\setminus	
	Heating								220°C
	Temperature	265±5℃	ldl	ing 50℃					
	Duration	3~4 sec			2s -		3-4s		
									1

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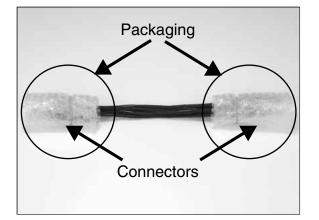
Precautions and recommendations

Packaging of the complete cable assemblies

Exercise caution as not to tangle, twist or deform the complete cable assemblies when packaging. Special care should be taken NOT to apply any excessive pull forces to the individual wires.

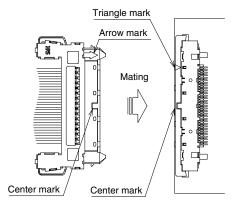
When removing the cable assemblies from the packaging do not pull on the wires. Make sure that the latch-locks are not interfering with packaging.

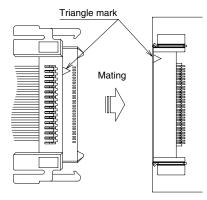




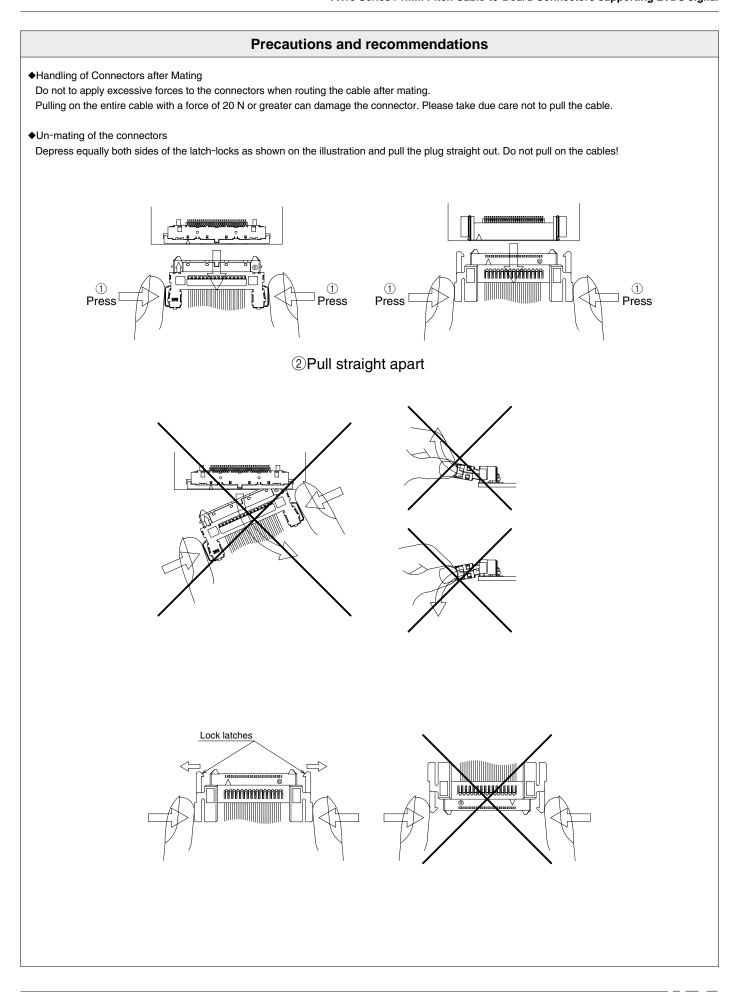
Mating of the connectors

The connectors have built-in polarizing feature and will NOT mate when reversed. Do NOT try forced mating. Align the connectors as shown on the illustration below and fully insert the plug into the receptacle. Confirm that both latch-locks are fully engaged.





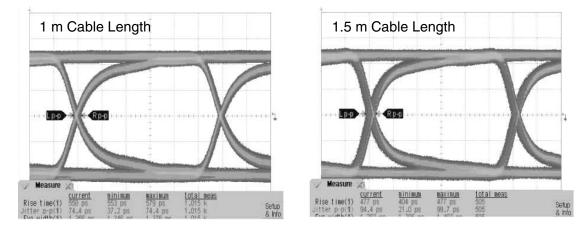
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Technical Information (FX15S Series)

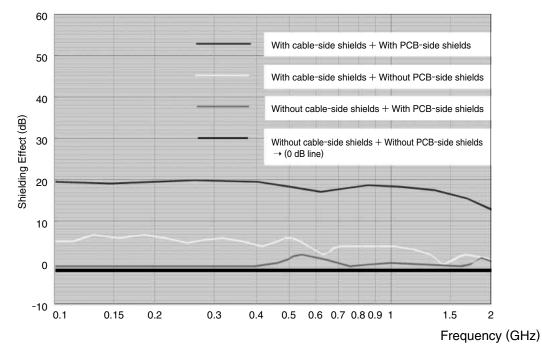
●Eye Pattern Waveforms (700 MHz)



•Shielding Effectiveness (Shielding Characteristics Comparison Using a 2-chamber Shielded Room)

Measured shielding effectiveness for frequencies from 100 MHz to 2 GHz.

Shielded connectors show noise suppression of 10 db to 20 dB, when compared with connectors without the shields.



Notes: The measurement value of "Without plug-side shields + Without receptacle-side shields" are taken as the zero level of the graph vertical axis dB.

The respective results express the noise suppression effect (dB) as a relative comparison value with this "without shields" condition as the reference.