

XC8

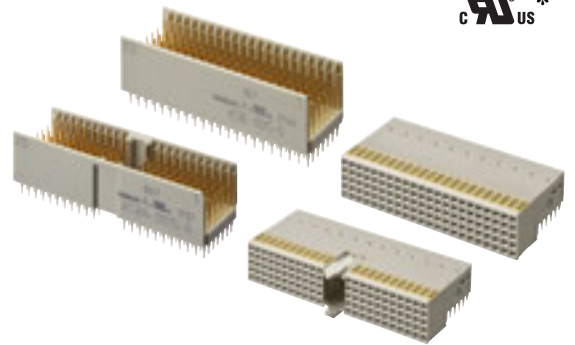
HM Connector (2 mm pitch hard metric connector)

PCI Bus Standard for Industrial Computers CompactPCI Supported 2.0 mm Pitch Board-to-Board Connector



- Conforms to IEC 61076-4-101.
- Supports Eurocard packages 3U and 6U.
- Socket contacts are highly reliable, dual-side contact types.
- As standard, products are compliant with UL Standards (File No. E103202). (excludes some products)

RoHS-compliant



* excludes some products

Terminology

• PCI Bus Standard

A standard for data transmission channels that link parts inside computers.

• CompactPCI

A standard for PCI bus-based backplane industrial computers.

Ratings and Characteristics

Rated current	1 A
Rated voltage	500 VAC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.)
Insulation resistance	10 ⁴ MΩ min. (at 100 VDC)
Dielectric strength	750 VAC 1 min (leakage current: 1 mA max.)
Total insertion force	(Contact) 0.75 N max. per contact (Ground) 1.00 N max. per contact
Removal force	(Contact) 0.15 N min. (Ground) 0.15 N min.
Insertion durability	250 times
Ambient operating temperature	-55 to +125°C (with no icing)

Materials and Finish

Item	Type	Plugs/Sockets
Housings	Plugs	Fiber-glass reinforced PC resin (UL94V-0)/gray
	Sockets	Fiber-glass reinforced LCP resin (UL94V-0)/gray
Socket chiclet		Fiber-glass reinforced LCP resin (UL94V-0)/gray
Contacts	Mating end	Phosphor bronze/nickel base Socket gold plating, plug gold/palladium plating
	Terminal	Phosphor bronze/nickel plating
Shield plate	Mating end	Phosphor bronze/gold/palladium plating
	Terminal	Phosphor bronze/nickel plating

Applicable board

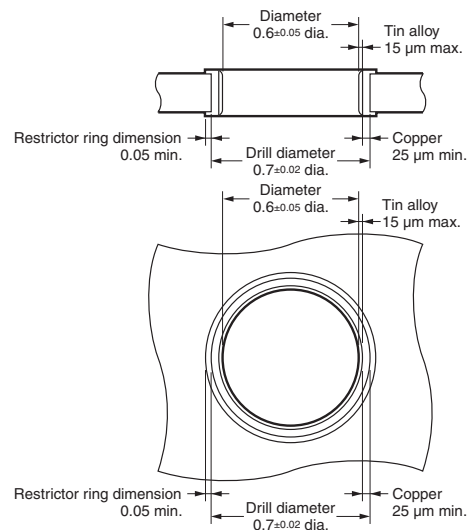
PCB thickness : 1.6 to 6.0 mm

Through-hole : Diameter = 0.6 dia. ±0.05 mm

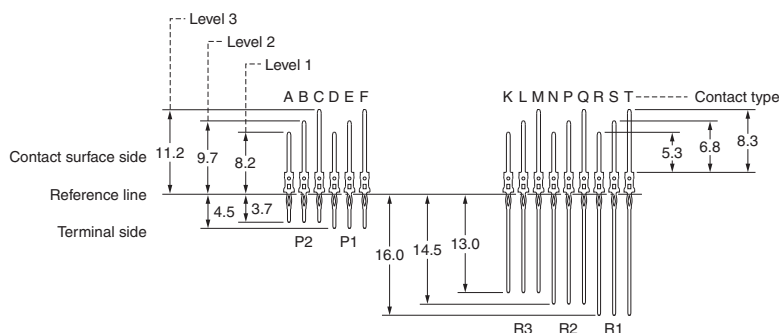
(Drill diameter = 0.7 dia. ±0.02 mm)

Plating : Copper 25 μm min.

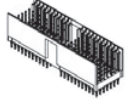
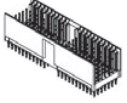
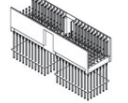
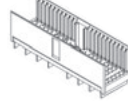
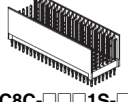
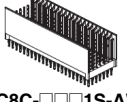





Tin alloy 15 μm max.

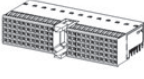











Plug Connector Contact Types

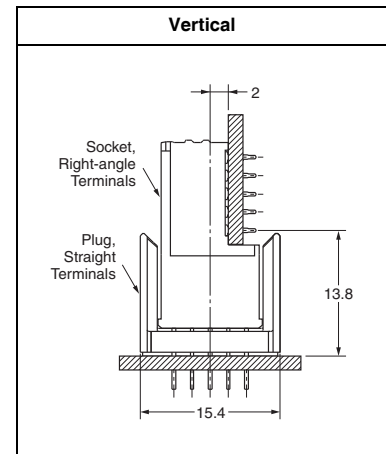


Variation List

Type		No. of contacts	Plugs				Backplane housing
			Straight short terminal		Straight long terminal		
			with shielded terminal	without shielded terminal	with shielded terminal	without shielded terminal	
Type A	[5 + 2 row] with alignment guide Coding key can be attached	110	 XC8A-1101S-□□□	 XC8A-1101S-AWP	 XC8A-1101S-4	XC8A (*)	 XC8A-110□
Type B	[5 + 2 row]	95 110 125	 XC8C-□□□1S-□□	 XC8C-□□□1S-AW	 XC8C-□□□1S-4	XC8C (*)	 XC8C-□□□□
Type C	[5 + 2 row] with alignment guide	55	 XC8E-0551S-ACP	 XC8E-0551S-AWP	XC8E (*)		XC8E (*)
Type AB	[5 + 2 row] with alignment guide	125	 XC8K-1251S-AC	XC8K (*)	XC8K (*)		XC8K (*)

Type		No. of contacts	Sockets		
			Right-angle Terminals		Lower shield
			with upper shield plate	without upper shield	
Type A	[5 + 2 row] with alignment guide Coding key can be attached	110	 XC8B-1101L	 XC8B-1101L-NN	 XC8Y-110AL
Type B	[5 + 2 row]	95 110 125	 XC8D-□□□1L-S□	 XC8D-□□□1L-NN	 XC8Y-□□□BL
Type C	[5 + 2 row] with alignment guide	55	 XC8F-0551L-SN	 XC8F-0551L-NN	 XC8Y-055CL
Type AB	[5 + 2 row] with alignment guide	125	 XC8L-1251L-SN	XC8L (*)	XC8L (*)

Mating Diagram (Unit: mm)



* Inquire for details.

- The alignment guide serves the purpose of "guiding" plugs and sockets when mating.
- "Coding key can be attached" means that a coding key for preventing improper mating can be installed.
- Product illustrations are for illustrative purposes only and number of contacts, etc., may vary.

Model Number Legend

• XC8 Plug (Straight Terminal)

XC8□-□□□ 1 □ -□□□
(1) (2) (3)(4) (5)(6)(7)

1. Series classifications

A: Type A plug
C: Type B plug
E: Type C plug
K: Type AB plug

2. No. of signal contacts

3. Plating

1: Au

4. Terminal shape

S: Straight press-fit terminal

5. Signal contact specification

A to T: Contacts A to T

Note: Refer to *Contact type* on page 1.

6. GND contact specification

A to T: Contacts A to T

W: without contact

Note: Refer to *Contact type* on page 1.

7. Peg specification

P: with peg

No symbol: without peg

• XC8 Socket (Right-angle Terminal)

XC8□-□□□ 1 L - □□
(1) (2) (3)(4) (5)(6)

1. Series classifications

B: Type A socket
D: Type B socket
F: Type C socket
L: Type AB socket

2. No. of signal contacts

3. Plating

1: Au

4. Terminal shape

L: Right-angle press-fit terminal

5. Shield specification

S: with shield plate

N: without shield plate

6. Peg specification

P: with peg

N: without peg

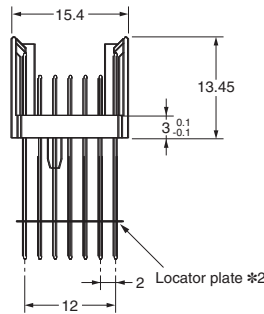
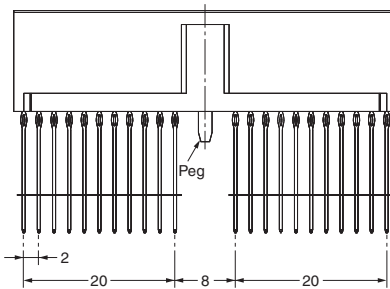
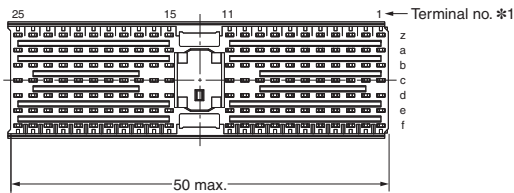
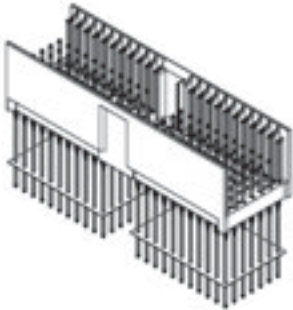
Note: Use this legend for determining product specifications from the model number. When ordering, select from the model numbers listed in the "Ordering Information" tables. Please be aware that some CompactPCI standard-compliant models do not match this model number legend.

XC8A Type A Plug Straight Terminal (16 mm Terminal Length)

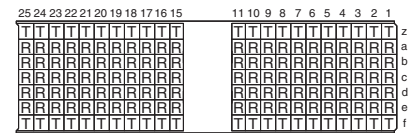
Dimensions

(Unit: mm)

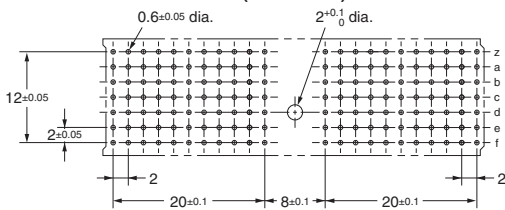
XC8A-1101S-4 (CompactPCI P4)



Contact arrangement (TOP VIEW)

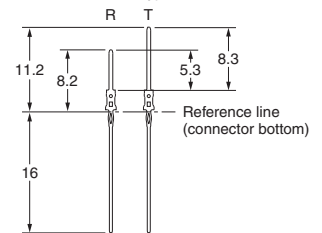


PCB dimensions (TOP VIEW)



*2. Mount to the PCB with the locator plate attached.

Contact type



*1. Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

No. of contacts	Peg	Terminal length	Shielded terminal	Model	CompactPCI standard
110	Yes	16 mm	Yes	XC8A-1101S-4	For P4

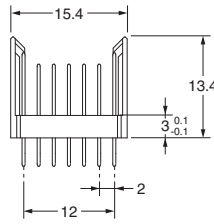
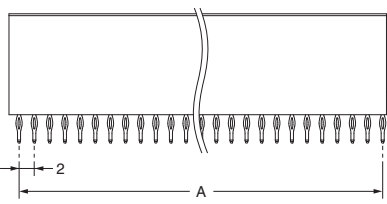
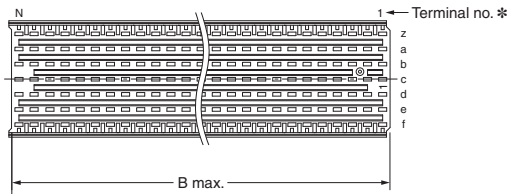
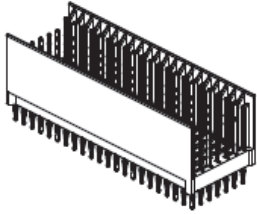
Note: Refer to page 14 for Backplane Housing.

XC8C Type B Plug Straight Terminal (3.7 mm Terminal Length)

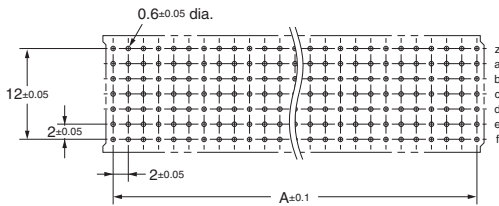
Dimensions

(Unit: mm)

- XC8C-0951S-0 (with shielded terminal)
- XC8C-1101S-0 (CompactPCI P2)
- XC8C-1101S-AC (with shielded terminal)
- XC8C-1101S-AW (without shielded terminal)
- XC8C-1251S-AC (with shielded terminal)
- XC8C-1251S-AW (without shielded terminal)

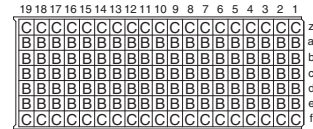


PCB dimensions (TOP VIEW)

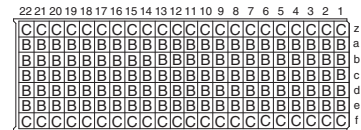


Contact arrangement (TOP VIEW)

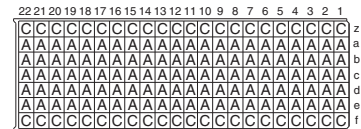
XC8C-0951S-0



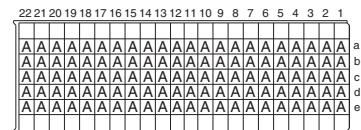
XC8C-1101S-0



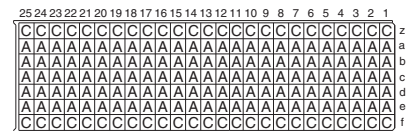
XC8C-1101S-AC



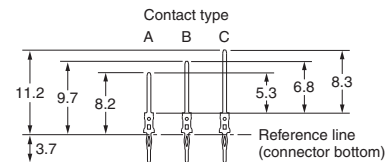
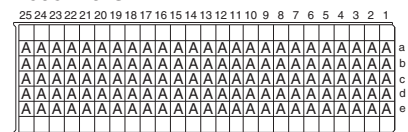
XC8C-1101S-AW



XC8C-1251S-AC



XC8C-1251S-AW



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

No. of contacts	Terminal length	Shielded terminal	Model	CompactPCI standard	Dimensions (mm)		Rows
					A	B	N
95	3.7 mm	Yes	XC8C-0951S-0	---	36	38	19
110			XC8C-1101S-0	For P2	---	42	44
		125	No	XC8C-1101S-AW			
Yes			XC8C-1251S-AC	---	48	50	25
No		XC8C-1251S-AW	---				

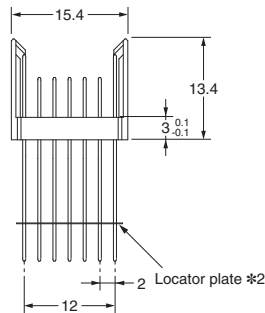
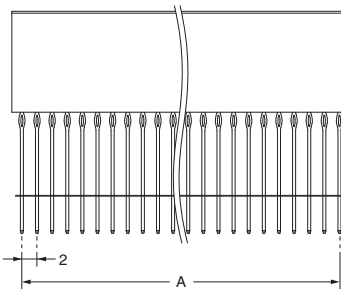
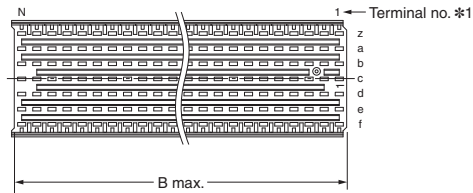
XC8C Type B Plug Straight Terminal (16 mm Terminal Length)

Dimensions

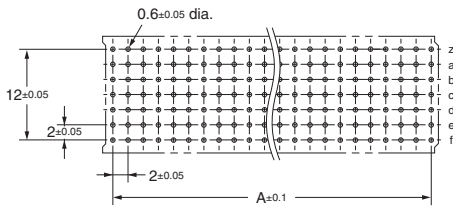
(Unit: mm)

XC8C-0951S-4 (CompactPCI P3)

XC8C-1101S-4 (CompactPCI P5)



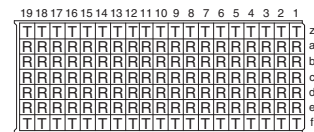
PCB dimensions (TOP VIEW)



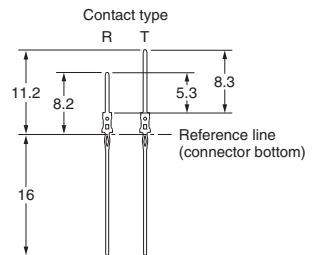
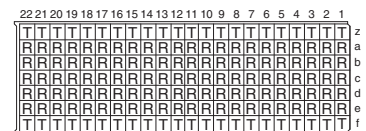
*2. Mount to the PCB with the locator plate attached.

Contact arrangement (TOP VIEW)

XC8C-0951S-4



XC8C-1101S-4



*1. Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

No. of contacts	Terminal length	Shielded terminal	Model	CompactPCI standard	Dimensions (mm)		Rows
					A	B	N
95	16 mm	Yes	XC8C-0951S-4	For P3	36	38	19
110			XC8C-1101S-4	For P5	42	44	22

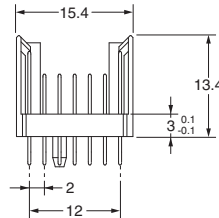
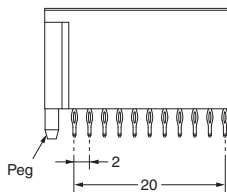
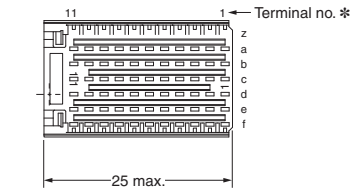
Note: Refer to page 14 for Backplane Housing.

XC8E Type C Plug Straight Terminal (3.7 mm Terminal Length)

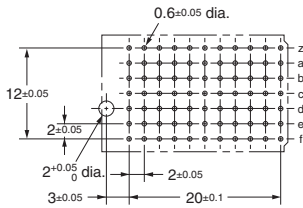
Dimensions

(Unit: mm)

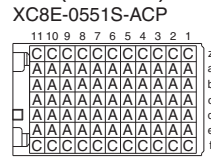
XC8E-0551S-ACP (with shielded terminal)
 XC8E-0551S-AWP (without shielded terminal)



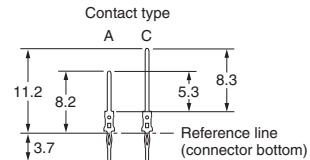
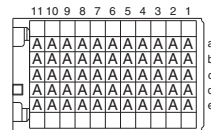
PCB dimensions (TOP VIEW)



Contact arrangement (TOP VIEW)



XC8E-0551S-AWP



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

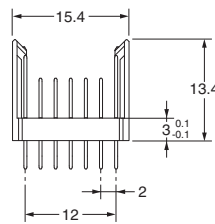
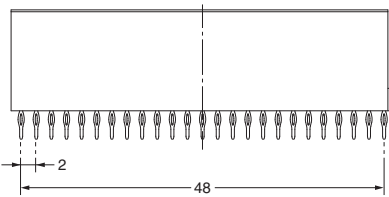
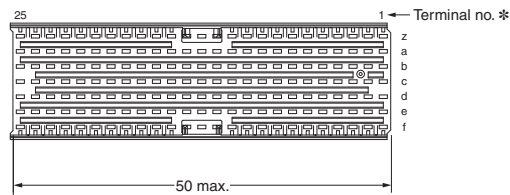
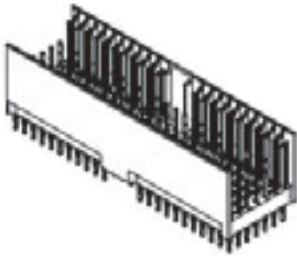
No. of contacts	Peg	Terminal length	Shielded terminal	Model
55	Yes	3.7 mm	Yes	XC8E-0551S-ACP
			No	XC8E-0551S-AWP

XC8K Type AB Plug Straight Terminal (3.7 mm Terminal Length)

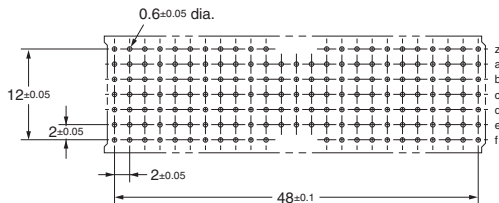
Dimensions

(Unit: mm)

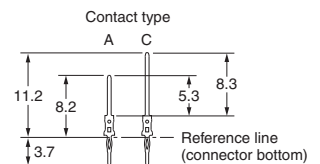
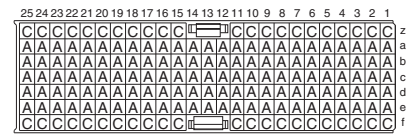
XC8K-1251S-AC (with shielded terminal)



PCB dimensions (TOP VIEW)



Contact arrangement (TOP VIEW)



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

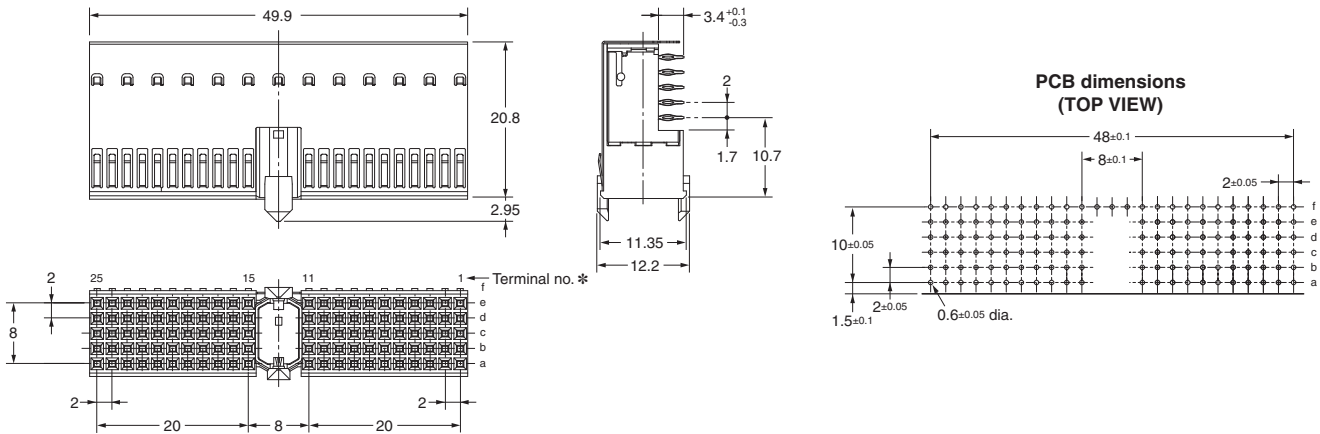
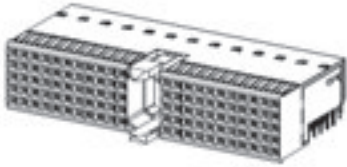
No. of contacts	Terminal length	Shielded terminal	Model
125	3.7 mm	Yes	XC8K-1251S-AC

XC8B Type A Socket Right-angle Terminal

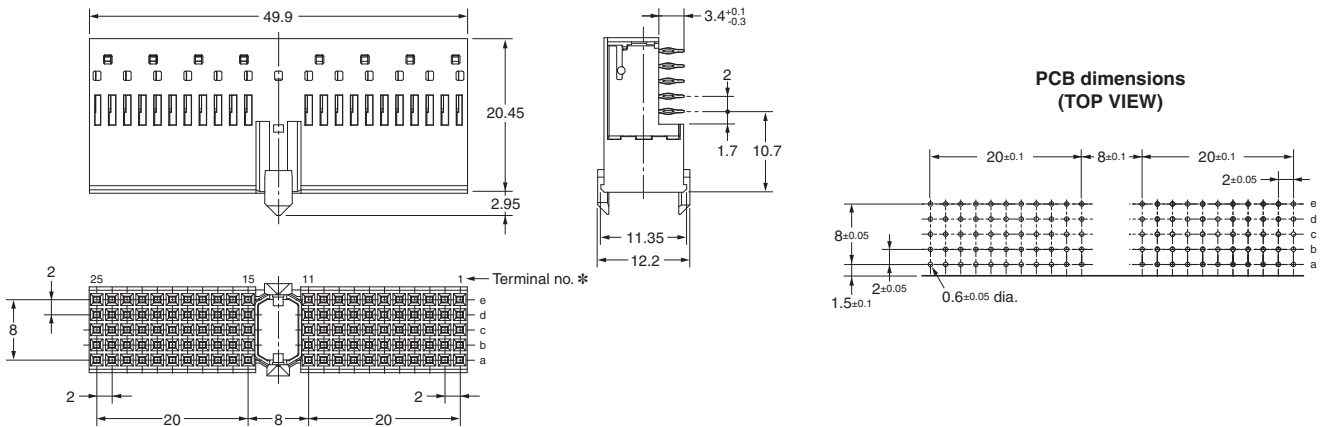
Dimensions

(Unit: mm)

XC8B-1101L (CompactPCI J1, J4 with shield plate)



XC8B-1101L-NN (without shield plate)



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

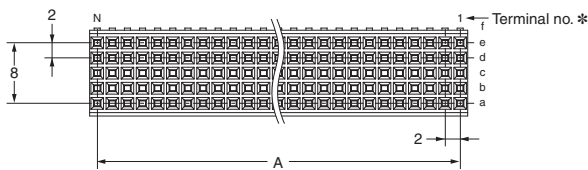
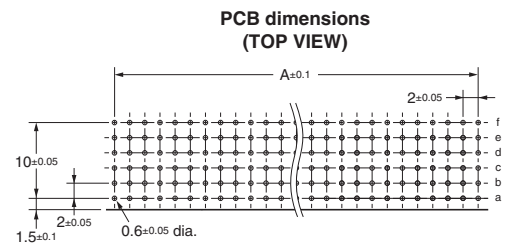
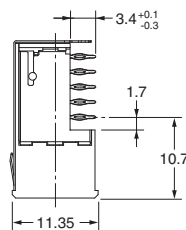
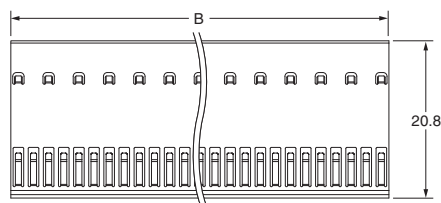
Shield plate	Peg	No. of contacts	Model	CompactPCI standard
Yes	No	110	XC8B-1101L	For J1, J4
No			XC8B-1101L-NN	---

XC8D Type B Socket Right-angle Terminal

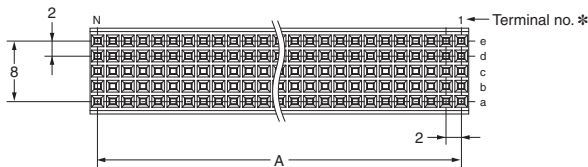
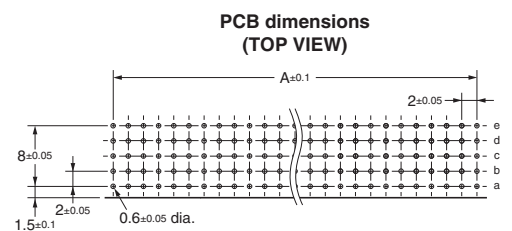
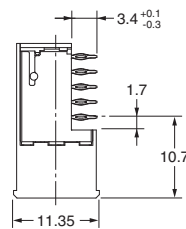
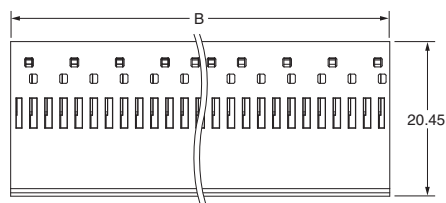
Dimensions

(Unit: mm)

XC8D-0951L (CompactPCI J3 with shield plate)
 XC8D-1101L (CompactPCI J2, J5 with shield plate)
 XC8D-1251L-SN (with shield plate)



XC8D-0951L-NN (without shield plate)
 XC8D-1101L-NN (without shield plate)
 XC8D-1251L-NN (without shield plate)



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

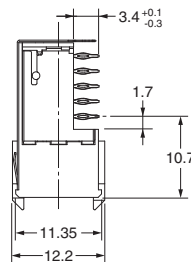
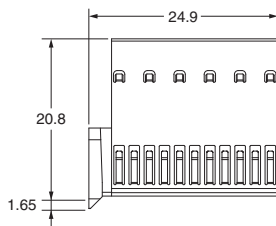
Shield plate	No. of contacts	Model	CompactPCI standard	Dimensions (mm)		Rows
				A	B	N
Yes	95	XC8D-0951L	For J3	36	37.9	19
	110	XC8D-1101L	For J2, J5	42	43.9	22
	125	XC8D-1251L-SN		48	49.9	25
No	95	XC8D-0951L-NN	---	36	37.9	19
	110	XC8D-1101L-NN		42	43.9	22
	125	XC8D-1251L-NN		48	49.9	25

XC8F Type C Socket Right-angle Terminal

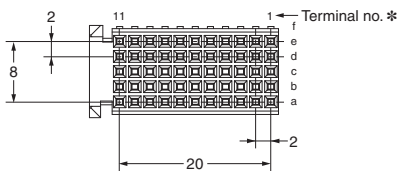
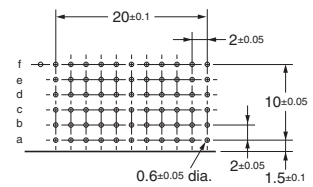
Dimensions

(Unit: mm)

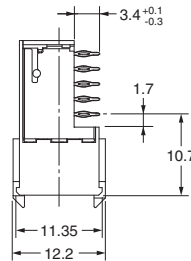
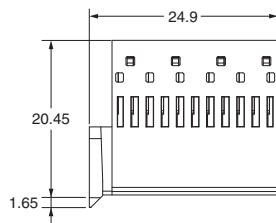
XC8F-0551L-SN (with shield plate)



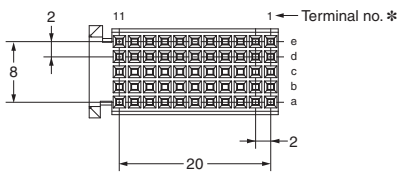
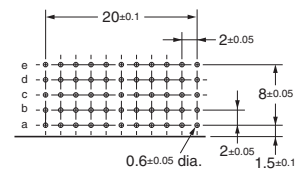
PCB dimensions
(TOP VIEW)



XC8F-0551L-NN (without shield plate)



PCB dimensions
(TOP VIEW)



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

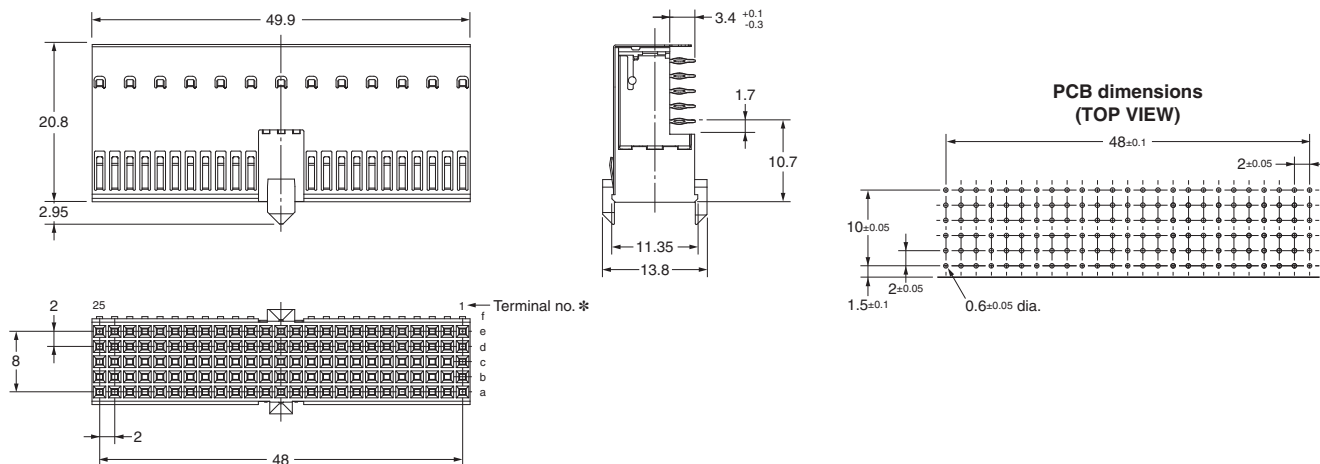
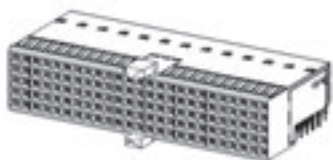
Shield plate	Peg	No. of contacts	Model
Yes	No	55	XC8F-0551L-SN
No			XC8F-0551L-NN

XC8L Type AB Socket Right-angle Terminal

Dimensions

(Unit: mm)

XC8L-1251L-SN (with shield plate)



* Terminal number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.

Ordering Information

Shield plate	No. of contacts	Model
Yes	125	XC8L-1251L-SN

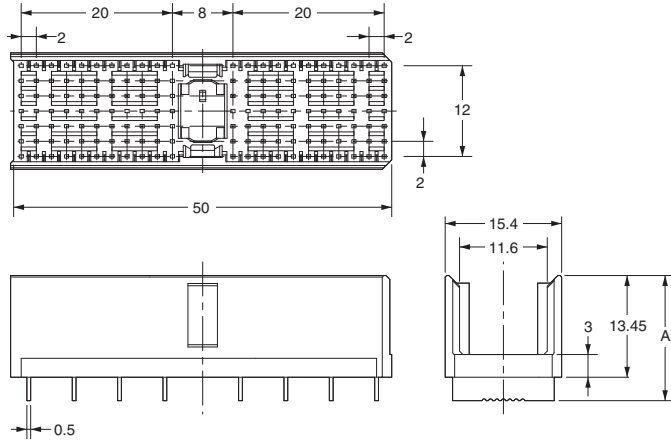
XC8A/C

Backplane Housing

Dimensions

(Unit: mm)

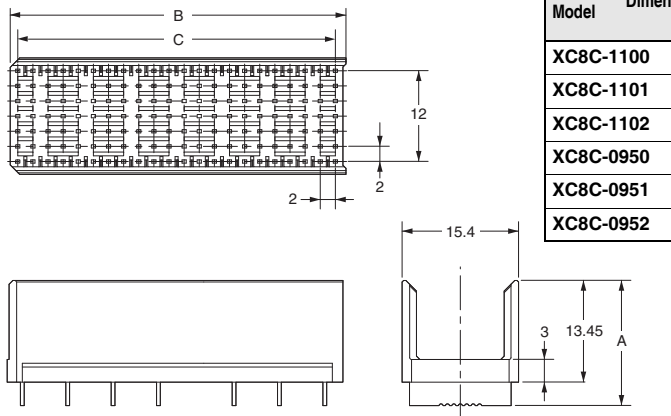
XC8A-1100
XC8A-1101
XC8A-1102
(For 110-contact type A plugs)



Dimensions table

Model	Dimensions (mm)	A
XC8A-1100		14.95
XC8A-1101		15.75
XC8A-1102		16.55

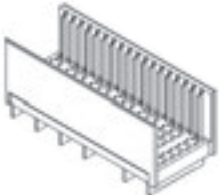
XC8C-1100
XC8C-1101
XC8C-1102
(For 110-contact type B plugs)



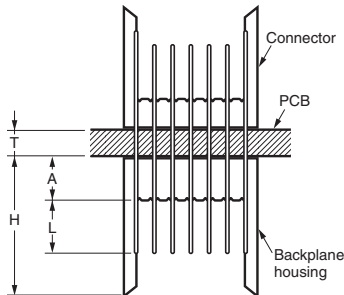
Dimensions table

Model	Dimensions (mm)	A	B	C
XC8C-1100		14.95	44	42
XC8C-1101		15.75	44	42
XC8C-1102		16.55	44	42
XC8C-0950		14.95	38	36
XC8C-0951		15.75	38	36
XC8C-0952		16.55	38	36

XC8C-0950
XC8C-0951
XC8C-0952
(For 95-contact type B plugs)



Compatibility with PCB thicknesses



(Unit: mm)

T (PCB thickness)	Compatible backplane housing	H (Housing height)	A (Base height)	L (Contact height)
1.6	XC8□-□□□2	16.55	6.1	8.3
3.2		16.55	6.1	6.7
2.4	XC8□-□□□1	15.75	5.3	8.3
5.0		15.75	5.3	5.7
4.6	XC8□-□□□0	14.95	4.5	6.9
6.0		14.95	4.5	5.5

Ordering Information

Housing height H (mm)	No. of contacts	Model	Compatible connector
14.95	110	XC8A-1100	XC8A-1101S-4
	110	XC8C-1100	XC8C-1101S-4
	95	XC8C-0950	XC8C-0951S-4
15.75	110	XC8A-1101	XC8A-1101S-4
	110	XC8C-1101	XC8C-1101S-4
	95	XC8C-0951	XC8C-0951S-4
16.55	110	XC8A-1102	XC8A-1101S-4
	110	XC8C-1102	XC8C-1101S-4
	95	XC8C-0952	XC8C-0951S-4

Block for Backplane Housing Press-Fitting

● **Block for press-fitting**

XY2D-3030 For type A

XY2D-3031 For 95-contact type B

XY2D-3032 For 110-contact type B



Model
XY2D-3030
XY2D-3031
XY2D-3032

When press-fitting the backplane housing, a press-fit tool, contact repair tool holder (lower), and contact repair tool (upper) are to be used in addition to the block for press-fitting.

● **Press-fit tool**
XY2D-1005



● **Contact repair tool (upper)**
XY2D-3011 For type A
XY2D-3013 For 98-contact type B
XY2D-3015 For 110-contact type B



● **Contact repair tool holder (lower)**
XY2D-3002



Press-Fit Tool/Contact Repair Tool Table

Connector type	Connector model	Block for press-fitting	Contact repair tool (upper)	Contact repair tool holder (lower)	Press-fit tool	
Backplane housing	Type A	XC8A-1100	XY2D-3030	XY2D-3011	XY2D-3002	XY2D-1005
		XC8A-1101				
		XC8A-1102				
	Type B	XC8C-0950	XY2D-3031	XY2D-3013		
		XC8C-0951				
		XC8C-0952				
		XC8C-1100				
		XC8C-1101				
XC8C-1102	XY2D-3032	XY2D-3015				

Accessories (Sold Separately)

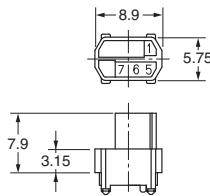
(Unit: mm)

● **Coding Key**

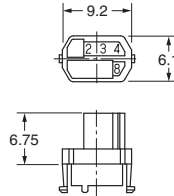
XC8Z-00□□



<For plug>



<For socket>



● **Coding tool**

XY2D-3021



Used for attaching and removing the coding key to and from the connector.

Ordering Information

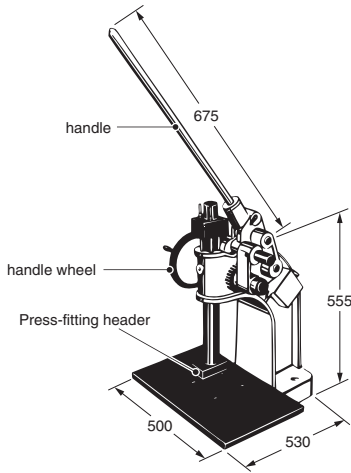
Types	Coding Key (for plug)		Coding Key (for socket)		Remarks
	Color	Shape	Shape	Model	
Blue		XC8Z-0001		XC8Z-0002	CompactPCI 5 V supported
Yellow		XC8Z-0003		XC8Z-0004	CompactPCI 3.3 V supported
Orange		XC8Z-0005		XC8Z-0006	---
Steel blue		XC8Z-0007		XC8Z-0008	---
Gray		XC8Z-0009		XC8Z-0010	---
Green		XC8Z-0011		XC8Z-0012	---
Purple		XC8Z-0013		XC8Z-0014	---
Ocher		XC8Z-0015		XC8Z-0016	---
Red		XC8Z-0017		XC8Z-0018	---
Brown		XC8Z-0019		XC8Z-0020	---

Model
XY2D-3021

Dedicated Press-Fit Tool

(Unit: mm)

● Press-fit tool XY2D-1005



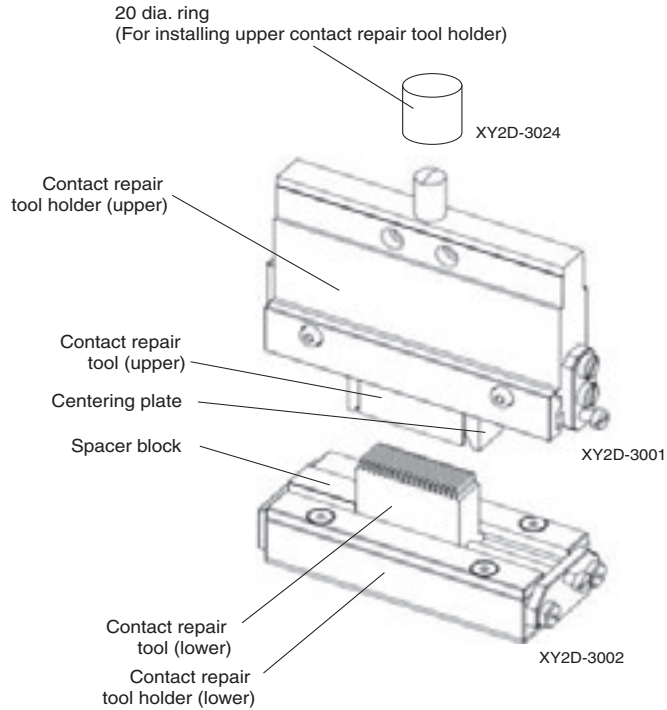
Specifications

Max. pressure	2 t
Stroke (max.)	8 mm (handle) 283 mm (handle wheel)
Weight	80 kg
Base area	500 × 530 mm

Model	
XY2D-1005	

● Contact Repair Tool Configuration Example

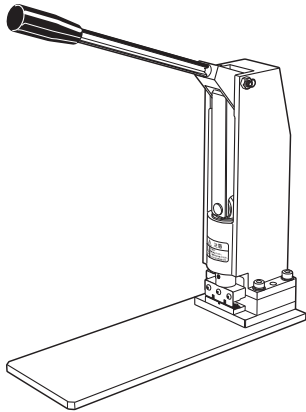
Refer to *Press-Fit Tool/Contact Repair Tool Table* for the contact repair tool models.



Note: A press-fitting manual is available separately. Contact us to order.

Daughter Board Press-Fit Tool

● Simple Tabletop Press for 2 mm Pitch Hard Metric Connector Sockets



This tool is used to press-fit socket connectors to the daughter board.

Specifications

Type	Toggle press type (manual)
Press force	Approx. 650 kg
Stroke	Approx. 20 mm
Weight	Approx. 8.7 kg
Dimensions	125 (W) × 370 (D) × 435 (H: low point) mm 125 (W) × 370 (D) × 655 (H: high point) mm

Note: A user's manual is available separately. Contact us to order.

Model	Applicable connector model
XY2D-1004	XC8B-1101L
	XC8B-1101L-NN
	XC8D-0951L
	XC8D-0951L-NN
	XC8D-1101L
	XC8D-1101L-NN
	XC8D-1251L-SN
	XC8D-1251L-NN
	XC8F-0551L-SN
	XC8F-0551L-NN
	XC8L-1251L-SN

Note: A jig is not necessary to set socket connectors. The applicable connector can be press-fit with this tool.

Press-Fit Tool/Contact Repair Tool Table

Connector type		Connector model		Contact Repair Tool		Press-fit Tool	Contact Repair Tool Holder		20 dia. ring
				(upper)	(lower)		(upper)	(lower)	
Socket with right-angle terminals	Type A	XC8B-1101L *	*	XY2D-3003	XY2D-3004	XY2D-1005	XY2D-3001	XY2D-3002	XY2D-3024
		XC8B-1101L-NN *	*						
	Type B	XC8D-0951L *	*	XY2D-3005	XY2D-3006				
		XC8D-0951L-NN *	*						
		XC8D-1101L *	*	XY2D-3007	XY2D-3008				
		XC8D-1101L-NN *	*						
		XC8D-1251L-SN *	*	XY2D-3003	XY2D-3004				
	XC8D-1251L-NN *	*							
	Type C	XC8F-0551L-SN *	*	XY2D-3009	XY2D-3010				
		XC8F-0551L-NN *	*						
Type AB	XC8L-1251L-SN *	*	XY2D-3003	XY2D-3004					
Plug with straight terminals	Type A	XC8A-1101S-0		XY2D-3011	XY2D-3012	XY2D-1005	XY2D-3001	XY2D-3002	XY2D-3024
		XC8A-1101S-4							
		XC8A-1101S-ACP							
		XC8A-1101S-AWP							
	Type B	XC8C-0951S-0		XY2D-3013	XY2D-3014				
		XC8C-0951S-4							
		XC8C-1101S-0		XY2D-3015	XY2D-3016				
		XC8C-1101S-4							
		XC8C-1101S-AC							
		XC8C-1101S-AW							
		XC8C-1251S-AC		XY2D-3017	XY2D-3012				
	XC8C-1251S-AW								
	Type C	XC8E-0551S-ACP		XY2D-3018	XY2D-3019				
		XC8E-0551S-AWP							
Type AB	XC8K-1251S-AC		XY2D-3020	XY2D-3012					

• Representative connector models are shown. Inquire regarding tools and contact repair tools for other models.

• The press-fit tool for daughter boards (XY2D-1004) can be used for connector models indicated with a "*". When using this tool, a contact repair tool holder and contact repair tool are not necessary.

Contact repair tool model	Spacer block			Centering plate	
	5 mm	25 mm	38 mm	Left	Right
	XY2D-3027	XY2D-3028	XY2D-3029	XY2D-3025	XY2D-3026
XY2D-3003	1	1			
XY2D-3004	1	1			
XY2D-3005	2	1			
XY2D-3006	2	1			
XY2D-3007	1	1			
XY2D-3008	3	1	1		
XY2D-3009		1			
XY2D-3010		1			
XY2D-3011		1			
XY2D-3012	1	1	1		
XY2D-3013		1		1	1
XY2D-3014		1		1	1
XY2D-3015	1	1	1		
XY2D-3016		1			
XY2D-3017		1			
XY2D-3018		1			
XY2D-3019	1	1	1	1	1
XY2D-3020		1		1	1

• The numerical values in the table represent the necessary number of spacer blocks and centering plates for the contact repair tool being used.

Safety Precautions

Precautions for Correct Use

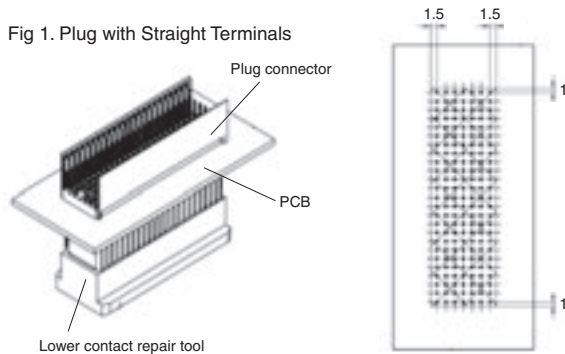
● Areas where Mounting is Prohibited

When press-fitting to the PCB, because the parts being mounted may interfere depending on the shape and dimensions of the contact repair tool, mounting to certain sections of the board is prohibited.

Plug with Straight Terminals

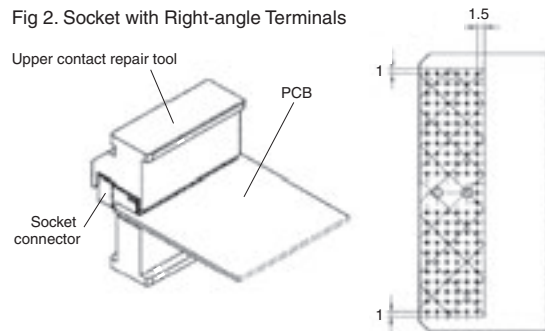
For the upper contact repair tool, the only prohibited area is the connector.

For the lower contact repair tool, the prohibited areas are 1 mm from the center of the terminal hole on the end in the short direction and 1.5 mm (enclosed portion) from the center of the shielded terminal hole in the long direction, regardless of whether or not there is a shielded terminal. (Fig. 1)



Socket with Right-angle Terminals

For both the upper and lower contact repair tools, the prohibited areas are 1 mm from the center of the terminal hole on the end in the short direction and 1.5 mm (enclosed portion) from the center of the shield plate terminal hole in the long direction, regardless of whether or not there is a shield plate. (Fig. 2)



Repair Tool

Use this tool to remove press-fitted connectors from the PCB. Removed connectors, contacts, and housings cannot be reused.

● Extraction Tool for Plug with Straight Terminals

XY2D-3023

Model
XY2D-3023

Note: A repair manual is available separately. Contact us to order.

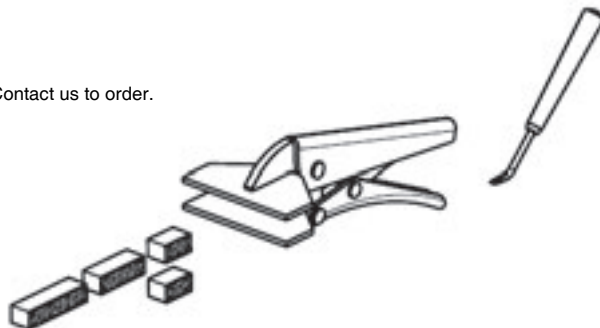


● Backplane Housing Extraction Tool

XY2D-3022

Model
XY2D-3022

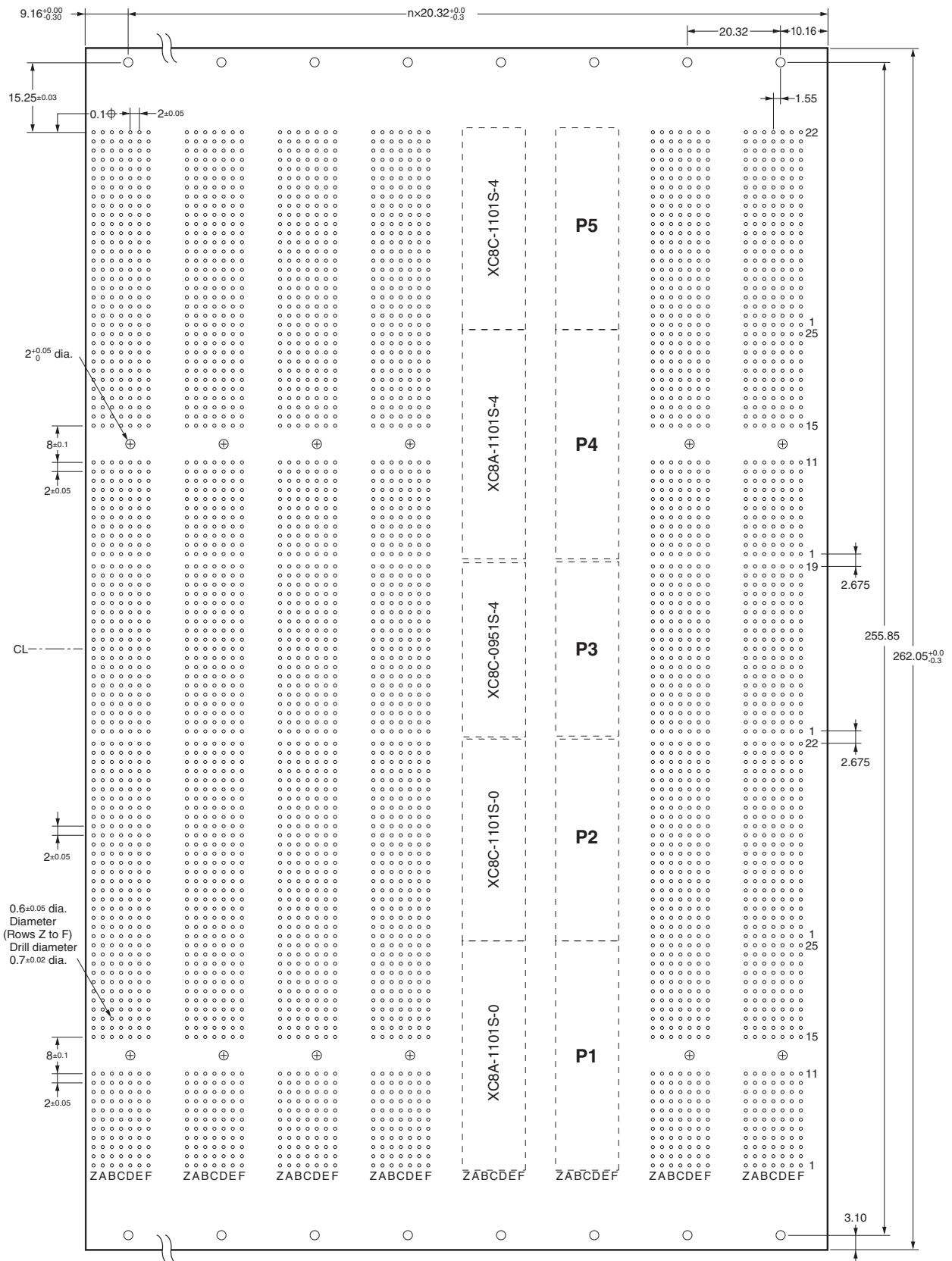
Note: A repair manual is available separately. Contact us to order.



● 6U PCB Dimensions (Motherboard Side)

Note: Number markings for the daughter board and motherboard are compliant with CompactPCI specifications.

Number markings on the connector body are compliant with IEC61076-4-101 and are not compliant with number markings for CompactPCI specifications.



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