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1.0 OBJECTIVE

This specification provides information and requirements regarding customer application of PwrBlade+™ Connector System. This specification is intended to provide general guidance for application process development. It is recognized that no single application process will work under all customer scenarios and that customers will develop their own application processes to meet their needs. However, if these application processes differ greatly from the one recommended, FCI cannot guarantee results.

2.0 SCOPE

This specification provides information and requirements regarding customer application of PwrBlade+™ Connector System. The product possibilities for configuration including:

- Right angle press fit and solder tail receptacles
- Right angle press fit and solder tail plugs
- Vertical press fit and solder tail receptacles
- Vertical press fit and solder tail plugs

3.0 **GENERAL**

3.1 This document is meant to be an application guide. If information varies from that in the product drawings and specifications, the drawings and specifications take precedence.

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3.2 This document covers the following sections:

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4.0 DRAWINGS AND APPLICABLE DOCUMENTS

- FCI PRODUCT SPECIFICATION GS-12-658
- FCI PRODUCT DRAWINGS

Product drawings and FCI's GS-12-658 Product Specification are available at www.fci.com In the event of a conflict between this application specification and the drawing, the drawing will take precedence. Customers are advised to refer to the latest revision level of FCI product drawings for appropriate details.

5.0 INTRODUCTION

PwrBlade+[™] has two options for connection to Printed Circuit Boards: Press Fit and Solder to Board. The press fit and solder tail configuration are available all plugs and receptacles. The PwrBlade+[™] Solder to Board Power (High Power & Low Power = H & L) and Signal Contacts are compatible with several soldering processes, including wave soldering. They are versatile with many configurations to fit the individual needs of the client and are less expensive than press fit. The Press Fit connection eliminates the need for soldering, achieving a connection to the board through the normal forces between the press fit tail and the plated through hole. The number of signal and power contacts is customer dependent with three choices of pitches between power contacts. PwrBlade+[™] has high current carrying capabilities ideal for data communications and data processing and is well suited for a wide variety of applications, such as SSI server power supplies, Fault-tolerant computers, Modular and hot-swap redundant N+1 power distribution systems and uninterruptible power systems (UPS).

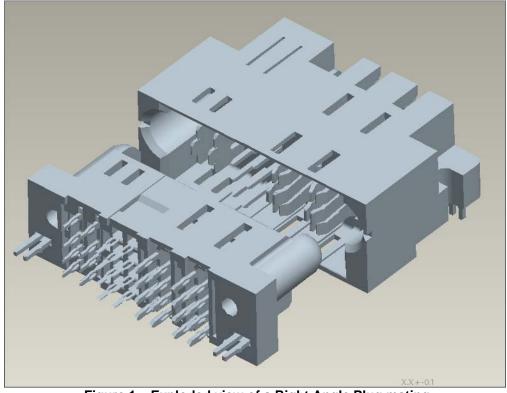


Figure 1 – Exploded view of a Right Angle Plug mating
With a Vertical Receptacle.

Modules are available with contact centerline spacing and related voltage rating listed in the following table:

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MODULE TYPE	CONFIGURATION		
MODULE TITLE	INDICATION	CENTERLINE SPACING	VOLTAGE RATING
	ACP	7.62[.300"]	645
High Power	HP	6.35[.250"]	466
	HDP	5.08[.200"]	295
Low Power	LP	2.92[.115"]	363
Signal	S	2.54[.100"]	88

Figure 1

The maximum overall length allowed for the connector is 203 [8]. Combinations of up to 36 power contacts and 148 signal contacts can be used-provided the maximum allowable length is not exceeded.

End modules and center modules are available with features that provide blind mating, misalignment, and polarization. End modules contain a guide post, guide hole, or latch receiver with key slot and a retention clip, and/or mounting hole, and center modules contain a retention clip or mounting hole. End modules without guides are also available. Guides (posts on receptacle and holes in plug) have rounded edges for ease of mating and are offset to prevent improper mating of connectors. The latch receiver with key slot ensures proper orientation of connectors when mating and accidental back-out of the connector. The retention clips help to align the connector to the pc board for installation then secure the connector for soldering. The 3.05 [.120] diameter mounting holes (which accept commercially-available standard screws) are also used to secure the connector to the pc board. The connectors are supplied in tray form for manual placement.

The connectors feature standoffs (one located at each contact) to facilitate pc board cleaning after soldering. Convection windows and cored lances located on the housing provide air flow for power modules.

6.0 REQUIREMENTS

6.1 Safety

Don't stack product shipping containers so high that the containers buckle or deform.

6.2 Limitations

The connectors are designed to operate in a temperature range of -40°C to 125°C [-40° to 257°F].

Voltage ratings for these connectors are based upon UL – 60950 -1 Second Edition Tale 2N. Voltage ratings according to Minimum Creep Distance (MCD) are given in Figure 2.

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Figure 2	I	PwrBlade+ Maximum Working Voltage Vs. Minimum Creep Distance					
1.9 =		(Referer	nce UL 60950-1 S	Second Edition T	able 2N)		
Туре	Contact Pitch	Pollution Degree (office Environment)	Material Group (Base on UL Rating)	MCD (mm)	Maximum Working Voltage (AC RMS)	Maximum Working Voltage (DC/AC Peak)	
Signal	2.54 [.100"]			0.94	88	124	
	3.81 [.150"]			1.98	281	397	
Signal – High	4.45 [.175"]			2.62	376	531	
Power	5.08 [.200"]			3.25	456	644	
i owei	5.72 [.225"]			3.89	541	764	
	6.35 [.250"]			4.52	633	895	
	2.73 [.107"]			2.22	322	455	
Cional Law	3.37 [.132"]			2.86	407	575	
Signal – Low Power	4.00 [.157"]				3.49	486	687
1 OWCI	4.64 [.182"]				4.13	576	814
	5.27 [.207"]	2	II	4.76	670	947	
	5.08 [.200"]			2.06	295	417	
High Power	6.35 [.250"]			3.33	466	659	
	7.62 [.300"]			4.60	645	912	
	4.00 [.157"]			2.28	330	467	
LPst D.	4.64 [.182"]			2.92	415	586	
High Power – Low Power	5.27 [.207"]			3.55	493	697	
2011 01101	5.91 [.232"]			4.19	585	827	
	6.54 [.257"]			4.82	679	960	
Low Power	2.92 [.115"]			2.52	363	513	

Figure 2

6.3 Material

The housing is made of glass filled high temperature nylon, UL 94V–0, with an oxygen index of 49%. The contacts are made of high-conductivity copper alloy underplated with nickel and plated with gold or palladium nickel; solder tines are plated with tin over nickel. Retention clips are made of plated copper alloy.

6.4 Storage

6.4.1 Ultraviolet Light

Prolonged exposure to ultraviolet light may deteriorate the chemical composition used in the connector material

6.4.2 Shelf Life

The connectors should remain in the shipping containers until ready for use to prevent deformation to the contacts. The connectors should be used on a first in, first out basis to avoid storage contamination that could adversely affect performance.

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6.4.3 Chemical Exposure

Don't store connectors near any chemical listed below as they may cause stress corrosion cracking in the contacts.

Alkalies Ammonia Citrates Phosphates Citrates Sulfur Compounds Amines Carbonates Nitrites Sulfur Nitrites Tartrates

6.5 PC Board

6.5.1 Material and Thickness

The pc board material shall be glass epoxy (FR-4 or G-10). The pc board thickness shall be as stated in Figure 3.

PC BOARD THICKNESS				
	CONNECTOR WITH SOLDER TYPE CONTACTS			
CONNECTOR WITH PRESS-FIT CONTACTS	2.28 ± 0.40			
1.35 [.053] Min	1.40~1.75 [.055~.069]	2.11~2.62 [.083~.103]	2.92~3.43[.115~.135]	

Figure 3

6.5.2 Hole Dimensions and Durability

The contact holes must be drilled and plated through to specific dimensions to prevent stubbing during placement of the connector on the pc board and to ensure optimum continuity for circuits after soldering. If applicable, holes for the retention clips or mounting hardware may be used with or without plated through holes. The drilled hole size, plating types, plating thickness, and finished hole size must be as stated to provide unrestricted insertion. See Figure 4.

For connectors with press-fit contacts, the pc board holes can't withstand connector removal more than threes. The radius of any board hole must not increase more than 0.038 [.0015] or decrease less than 0.0508 [.002].

6.5.3 Land/pad size

The pc board land/pad size is given in Figure 4.

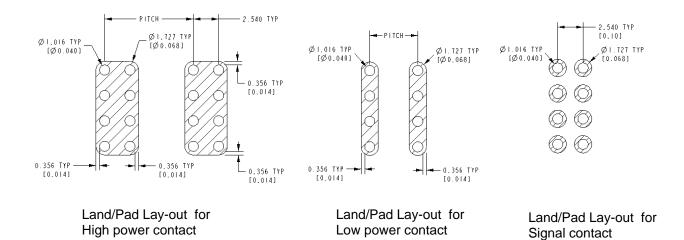
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	mm	inch
Drilled hole diameter	1.151 +/- 0.025	0.0453 +/- 0.001
Plated hole diameter	1.016+/- 0.07	0.040+/- 0.003
Copper plating	0.051 +/- 0.025	0.002 +/- 0.001
Tin/Lead plating	0.007	0.0003
Land/Pad size	1.727 +/- 0.064	0.068 +/- 0.0025

Figure 4

Typical PC Board Land/Pad Lay-out For Reference Only

Dimensions are mm/inch



NOTE: Above PCB layout is just for PF and solder to board type (wave process), can not meet the PIP process.

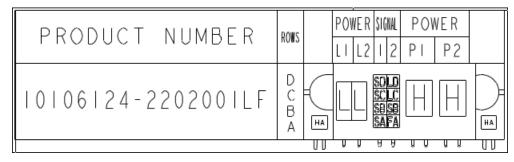
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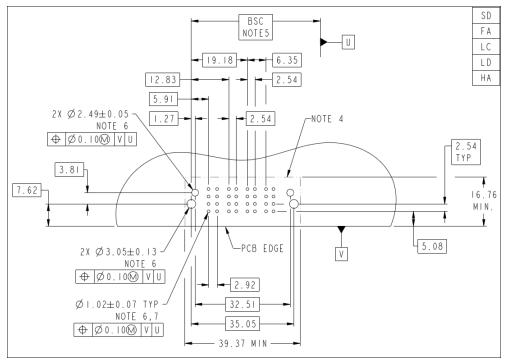
6.5.4 Layout

The holes in the pc board must be precisely located to ensure proper placement and optimum performance of the connector. The pc board layout must be designed using the dimensions provided on the customer drawing for the specific connector. A sample of the recommended pc board layout is shown in Figure 5.

Sample Recommended PC Board Layout

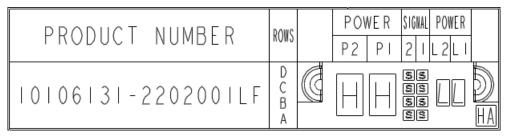
Right Angle Plug (With Retention Clips)

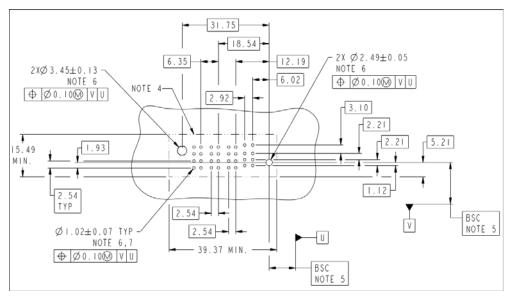




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Vertical Receptacle (One Side With Retention Clips)





- 4) DENOTES CONNECTOR KEEP OUT ZONE.
- 5) DATUM AND BASIC DIMENIONS WERE ESTABLISHED BY CUSTOMER.
- 6) ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES.
- 7) 1.15 \pm 0.025MM DRILLED HOLE PLATED WITH 0.00762MM MIN Sn OVER 0.0254-0.0762MM Cu PLATING TO ACHIEVE A 1.02 \pm 0.07MM HOLE.

Figure 5

("Power and Signal traces inside the connector zone seen in Figure 5 need to be coated or under solder mask to protect against oxidation and minimize wear or damage during assembly and handling.")

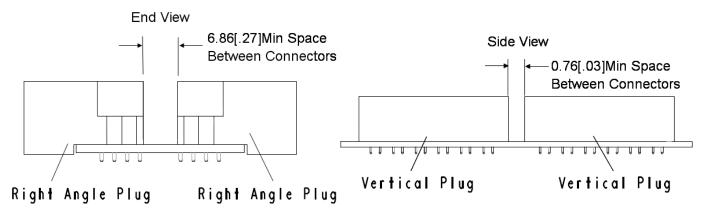
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6.5.5 Spacing

Care must be used to avoid interference between adjacent connectors and other components. In addition, space allowed between pc boards for mating of connectors must be considered when determining distance between pc boards. The minimum allowable distance needed between connector to ensure full mating of connectors and the allowable distance between pc boards with connectors fully mated is provided in Figure 6.

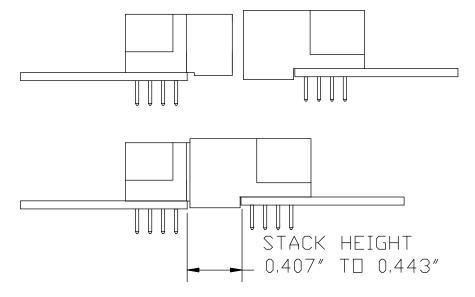
Allowable Distance Between Connectors



Allowable Distance Between PC Boards

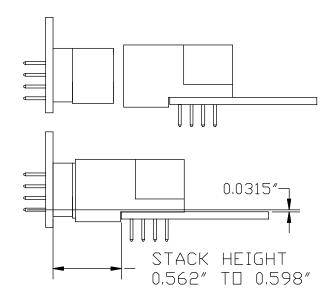
Notes: Connectors must be fully mated

A. Right Angle Receptacle to Right Angle Plug

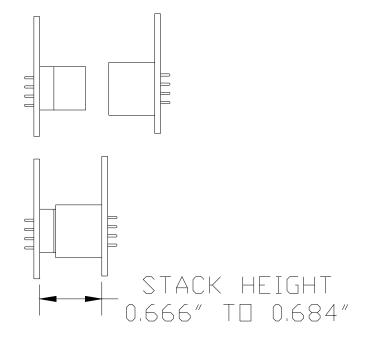


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B. Vertical Receptacle to Right Angle Plug



C. Vertical Receptacle to Vertical Plug



D. Right Angle Receptacle to Vertical Plug

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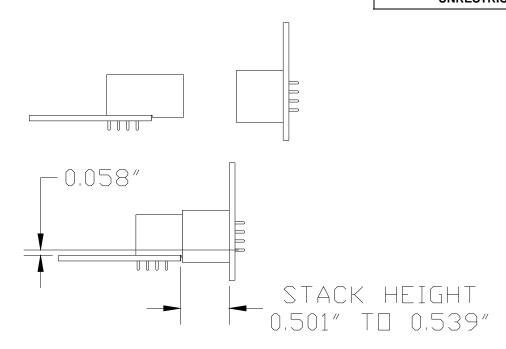


Figure 6

6.6 Connector Placement

Connectors should be handled only by the housing to avoid deformation, contamination, or damage to the contacts.

6.6.1 Registration

When placing connectors on the pc board, contacts and, if applicable, retention clips or mounting holes must be aligned and started into the matching holes before seating the connector onto the board.

6.6.2 Insertion Force

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The force required to seat the connector with press-fit contacts or retention clips onto the pc board can be calculated by:

Insertion force N [lbs.] =

Number of connector press-fit contacts X maximum insertion force per contact Insertion force N [lbs.] =

Number of connector retention clips X maximum insertion force per retention clips The maximum amount of insertion force per press-fit contact and retention clips is given in Figure 7.

MAXIMUM INSERTION FORCE (I	N [lbs.])
-----------------------------	------------

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PER PRESS-FIT HIGH POWER CONTACT	PER PRESS-FIT LOW POWER CONTACT	PER PRESS-FIT SIGNAL CONTACT		PER RETENTION CLIP
890 [200]	445 [100]	Plug Receptacle	93.4 [21] 27 [6]	27 [6]

Figure 7

6.7 Mounting Hardware

Connectors with mounting holes can be secured to the pc board before soldering using commercially-available standard screws. The screw size and maximum torque (applied to the mating face of the connector) is provided in Figure 8.

Typically, this method of mounting (or hold-down) serves connectors with solder type contacts and without retention clips.

	SCREW		MAXIMUM TORQUE
MOUNTING HOLE DIAMETER	SIZE	HEAD DIAMETER (Maximum)	N-m [lb- in.] (Applied to Mating Face)
3.05 [.120]	No. 4	7.37 [.290]	0.57 [5]

Figure 8

6.8 Soldering

Observe guidelines and procedures when soldering contacts. Contact solder tines must be soldered, cleaned, and dried according to the following:

6.8.1 Flux Selection

Contact solder tines must be fluxed prior to soldering with a mildly active, rosin base flux. Selection of the flux will depend on the type of pc board and other components mounted on the board. Additionally, the flux must be compatible with the wave solder line, manufacturing, health, and safety requirements. Flux that is compatible with these connectors are provided in Figure 9.

FLUX TYPE	ACTIVITY	DESIDUE	COMMERCIA	L DESIGNATION
FLUX ITPE	ACTIVITY	RESIDUE	KESTER	ALPHA
RMA	Mild	Noncorrosive	186	611

Figure 9

6.8.2 **Process**

The connectors can be soldered using wave soldering or equivalent soldering techniques. It is recommended using tin or tin-lead solder for these connectors. The temperatures and exposure time shall be as specified in Figure 10.

SOLDERING PROCESS	WAVE TEMPERATURE	TIME (At Maximum Temperature)
Wave	265 °C [509°F]	10 Seconds

Figure 10

6.8.3 Cleaning

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After soldering, removal of fluxes, residues, and activators is necessary. Consult with the supplier of the solder and flux for recommended cleaning solvents. Cleaners must be free of dissolved flux and other contaminants. Common cleaning solvents that will not the affect connectors for the time and temperature specified are list in Figure 11.

Consideration must be given to toxicity and other safety requirements recommended by the solvent manufacturer. Refer to the manufacture's Material Safety Data Sheet (MSDS) for characteristics and handling of cleaners. Trichloroethylene and Methylene Chloride is not recommended because of harmful occupational and environmental effects. Both are carcinogenic (cancer-causing).

Even when using "no clean" solder paste, it is imperative that the contact interface be kept clean of flux and residue, since it acts as an insulator. Flux may migrate under certain conditions with elevated temperatures and therefore, cleaning is necessary.

CLEANER		TIME	TEMPERATURE (Maximum)	
NAME	TYPE	(Minutes)	132 ℃ [270°F]	
ALPHA 2110	Aqueous	1	100 ℃ [212°F]	
BIOACT EC-7	Solvent	5	100 ℃ [212°F]	
BIOACT EC-7	Solvent	5	Ambient Room	
Butyl CARBITOL	Solvent	1	100 ℃ [212°F]	
Isopropyl Alcohol	Solvent	5	100 ℃ [212°F]	
KESTER 5778	Aqueous	5	100 ℃ [212°F]	
KESTER 5779	Aqueous	5	100 ℃ [212°F]	
LONCOTERGE 520	Aqueous	5	100 ℃ [212°F]	
LONCOTERGE 530	Aqueous	5	100 ℃ [212°F]	
Terpene Solvent	Solvent	5	100 ℃ [212°F]	

(ALPHA is a trademark of Cookson Group, Inc.

CARBITOL and LONCOTERGE are trademarks of Union Carbide Corp.

BIOACT is a trademark of Petroferm, Inc.

KESTER is a trademark of Kester, Inc.)

Figure 11

6.8.4 Drying

When drying cleaned connectors and pc boards, make certain that temperature limitations are not exceeded: -40 $^{\circ}$ C to 105 $^{\circ}$ C [-40 $^{\circ}$ F to 221 $^{\circ}$ F]. Excessive temperatures may cause housing degradation.

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6.9 Connector Mating

Connectors should be handled only by the housing to avoid deformation, contamination, or damage to the contacts.

6.9.1 Polarization

For connectors with guides, polarization is provided by matching the guides of mating connectors. For connectors with latch receivers or without guides, polarization is provided by matching the mating alignment keys with the key slots of mating connectors.

6.9.2 Mating Force

The maximum amount of mating force per contact is given in Figure 12.

CONTACT	MAXIMUM MATING FORCE
CONTACT	PER CONTACT
High Power	5N [18 ounce]
Low power	2N [7.2 ounce]
Signal	1N [3.6 ounce]

Figure 12

6.9.3 Mating Length

Contact mating lengths available for the connectors are listed in Figure 13.

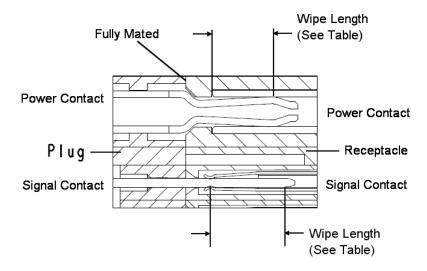
CONNECTOR	CONTACT MATING LENGTH		
CONNECTOR	High Power Contact	Low Power Contact	Signal Contact
Receptacle	Standard and MFBL(Pre-Mate)	Standard	Standard
Plug	Standard	Standard, MFBL, and MLBF(Post Mate)	Standard, MFBL, MLBF and MLBF2

Figure 13

6.9.4 Wipe Length

The wipe length at the level of mating for power and signal contacts is listed in Figure 14.

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CONTACT	MATING LENGTH	MATING LEVEL	WIPE LENGTH	REMARK
High Power	MFBL (Pre-Mate)	1	5.30[.209]	Normal
nigh Fower	Standard	2	4.35[.171]	Normal
	MFBL (Pre-Mate)	2	4.75[.187]	Normal
Low Power	Standard	3	3.60[.142]	Normal
	MLBF (Post Mate)	4	2.00[.079]	Normal
	MFBL (Pre-Mate)	1	5.80[.228]	Normal
Signal	Standard	2	4.75[.187]	Normal
Signal	MLBF (Post Mate)	3	3.60[.142]	Normal
	MLBF2 (Post Mate)	3	2.50[.098]	Customized

Figure 14

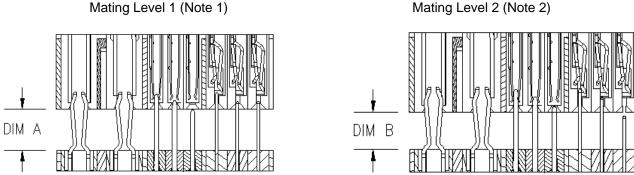
6.9.5 Sequencing

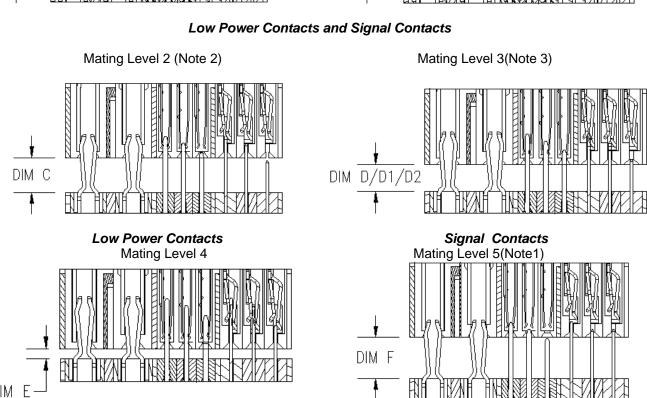
The connectors provide sequencing among contacts with 5 mating levels. The offset distance, measured from the receptacle mating face to the plug mating face at the point of electrical engagement, depends on the contact (power or signal) and mating length (standard, MFBL, or MLBF) of the mating connectors. The offset distance at the level of mating for power and signal contacts is listed in Figure 15.

CONTACT	MATING LENGTH	ING LENGTH MATING LEVEL		MATING LENGTH MATING LEVEL OFF	OFFSE [*]	T DISTANCE
CONTACT	CONTACT MATING LENGTH		Dimension	Nominal		
High Dower	MFBL (Pre-Mate)	1	Α	5.30 [.209]		
High Power	Standard	2	В	4.35 [.171]		
	MFBL (Pre-Mate)	2	С	4.75 [.187]		
Low Power	Standard	3	D	3.60 [.142]		
	MLBF (Post Mate)	4	Е	2.00 [.079]		
	MFBL (Pre-Mate)	1	F	5.80 [.228]		
Signal	Standard	2	С	4.75 [.187]		
Signal	MLBF (Post Mate)	3	D1	3.60 [.142]		
	MLBF2 (Post Mate)	3	D2	2.50 [.098]		

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High Power Contacts





- Note 1: The offset distance between "A" and "F" is not enough to consider these as separate levels.
- Note 2: The offset distance between "B" and "C" is not enough to consider these as separate levels.
- Note 3: For this level, signal contact has 2 options, D1 "MLBF" is normal, and D2 "MLBF2" is customized special application.

Figure 15

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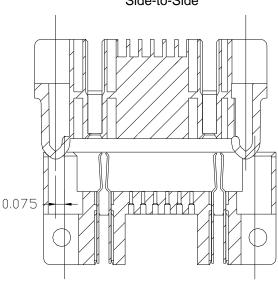
6.9.6 Misalignment

When mating connectors, side-to-side and up-and-down misalignment is allowed to the dimensions given in Figure 16. There is no misalignment for connectors with latch receivers.

(Connectors with guides should be used in applications requiring blind mating. Connectors with latch receivers and connectors without guides should not be used in applications requiring blind mating.)

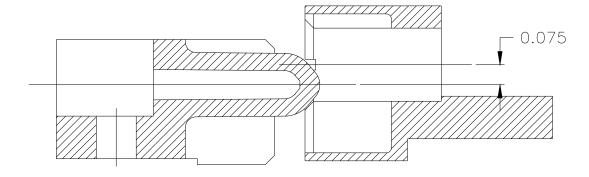
Misalignment for Connectors With Guides

The connectors can be misaligned nominally by +/-1.91mm [+/-0.075"] in the X and Y direction.



Side-to-Side

Up-and Down

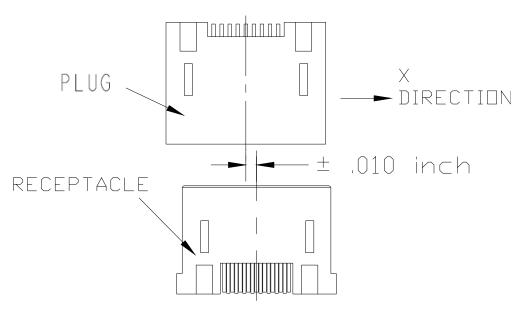


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Misalignment for Connectors Without Guides

The connectors can be misaligned nominally by ± -0.25 mm [± -0.010 "] in the x direction. The connectors can be misaligned nominally by ± -0.56 mm [± -0.022 "] in the y direction.

Side-to-Side



Up-and Down

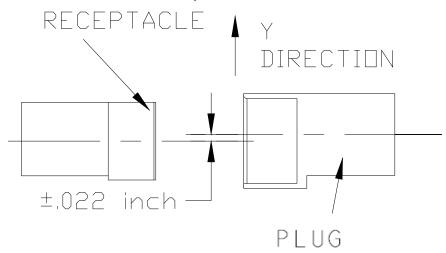
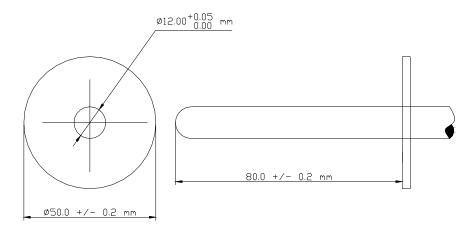


Figure 16

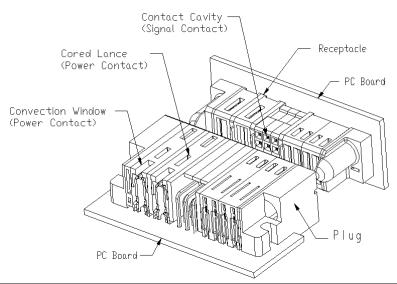
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6.10 Circuit Testing

Unmated receptacles and mated plugs must be tested against hazardous voltages using the test probe specified in UL 1950. Specific area of the connector must be tested as indicated in Figure 17.



Dimensions of UL Probe



		AREA TO BE TESTED	
CONNECTOR	Unmated Receptacle	Mated	d Plug
	Contact Cavities	Convection Windows	Cored Lance
Vertical Receptacle	Yes	Yes	Yes
Right Angle Receptacle	Yes	N/A	Yes
Vertical Plug	N/A	Yes	Yes
Right Angle Plug	N/A	N/A	Yes

Figure 17

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6.11 Connector Unmating

The minimum amount of unmating force per contact is given in Figure 18.

CONTACT	MINIMUM MUMATING FORCE PER CONTACT
High Power	2.2N [8 ounce]
Low Power	0.5N [1.8 ounce]
Signal	0.2N [0.64 ounce]

Figure 18

6.12 Connector Removal

6.12.1 Solder Type Contacts

Connectors with solder type contacts must be removed from the pc board by standard desoldering methods. After removal from the board, the connector MUST NOT be re-used.

6.12.2 Press-Fit Contacts

Connectors with press-fit contacts must be removed from the pc board using a push bar (or flat rock) and pc board support.

(For repairability, the tips of the contacts must extend below the surface of the pc board by at least 1.02 [.040]; If not, the connector MUST NOT be removed from the pc board.)

6.12.3 Retention Force

The force retaining the connector with press-fit contacts or retention clips on the pc board can be calculated by:

Retention Force N [lb] =

Number of connector press-fit contacts X minimum retention force per contact Retention Force N [lb] =

Number of connector retention clips X minimum retention force per retention clip The minimum amount of retention force per press-fit contact and retention clip is given in Figure 19.

MINIMUM RETENTION FORCE (N [lb.])			
PER PRESS-FIT HIGH POWER CONTACT	PER PRESS-FIT LOW POWER CONTACT	PER PRESS-FIT SIGNAL CONTACT	PER RETENTION CLIP
53.6 [12]	26.8 [6]	6.7 [1.5]	13.3 [3]

Figure 19

6.13 Repair

These connectors are not repairable. Damaged or defective connectors must not be used.

7.0 TOOLING

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7.1 Connectors with Solder Type Contacts

No tooling is required for placement of the connectors with solder type contacts onto the pc board.

7.2 Vertical Plugs with Press-Fit Contacts

Tooling for seating vertical plugs having press-fit contacts is available. A pc board support and application tooling (such as arbour press) that provides sufficient amount of downward force to insert the contacts into the pc board holes must be used with the seating tool. The seating tooling reference to FCI CAM Tool 430169.

7.3 Receptacle and Right-Angle Plugs with Press-Fit Contacts

7.3.1 Application Tooling

The application tooling (such as an arbor press) used to seat these connectors must provide sufficient amount of downward force to insert the contacts into the pc board holes.

7.3.2 PC Board Support

A pc board support must be used to prevent bowing of the pc board during the placement of these connectors on the board. The board support must have a flat surface with holes or a channel large enough and deep enough to receive any protruding components. The pc board must be secured to the board support to prevent movement of the board during seating. Refer to Figure 20.

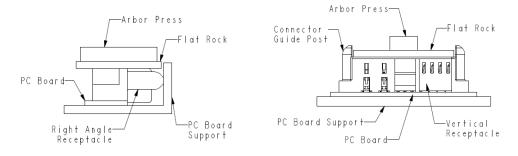
The board support must also be used when removing these connectors from the pc board.

7.3.3 Flat Rock Tooling

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Commercially available bar stock (flat rock tooling) with a flat surface large enough to cover all contacts and any protruding components must be used with the application tooling to seat these connectors. For vertical receptacle with guides, the flat rock tooling must be sized to fit between the guides.

For removing these connectors from the pc board, it is suggested that the pc board be supported from the connector side and that the connector be removed using flat rock tooling.



Seating Receptacles and Right-Angle Plugs with Press-Fit Contacts Figure 20

Form E-3334 02/12/01 GS-01-001

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8.0 PRODUCT PART NUMBER ASSIGNMENTS

8.1 Base Number: 10106 <u>AAA</u>

AAA definition

AAA	High Power Contact Pitch	Right Angle/ Vertical	Plug / Receptacle	Solder to Board/ Press Fit
116			Dlug	Solder To Board
117		Diaht Analo	Plug	Press Fit
118		Right Angle	Pagantagla	Solder To Board
119	7.62 mm		Receptacle	Press Fit
120	7.02 111111		Dlug	Solder To Board
121		Vertical	Plug	Press Fit
122		Vertical	Pagantagla	Solder To Board
123			Receptacle	Press Fit
124			Plug	Solder To Board
125		Right Angle	Flug	Press Fit
126		Right Angle	Receptacle	Solder To Board
127	6.35 mm		Receptacie	Press Fit
128	0.33 11111		Plug	Solder To Board
129		Vertical	Flug	Press Fit
130			Receptacle	Solder To Board
131			кесеріасіе	Press Fit
132			Plug	Solder To Board
133		Right Angle	Flug	Press Fit
134		Night Angle	Receptacle	Solder To Board
135	5.08 mm		Neceptacie	Press Fit
136	3.00 111111		Plug	Solder To Board
137		Vertical	1 lug	Press Fit
138		v Ci ticai	Receptacle	Solder To Board
139			Noocpiaole	Press Fit
262			Plug	Solder To Board
263	Hybrid design or other customized	Right Angle	ı idg	Press Fit
264		Night Aligie	Receptacle	Solder To Board
265			Neceptacie	Press Fit
266	pitch		Plug	Solder To Board
267	Pitori	Vertical	i lug	Press Fit
268		v Gi iicai	Receptacle	Solder To Board
269			Neceptacie	Press Fit

Figure 21

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REV	PAGE	DESCRIPTION	ECR#	DATE
Α	All	New Release	-	12/22/2011
В	All	Change name description from "header" to "plug".	ELX-DG-20876	05/13/2015
С	7,15,16	Add the PCB layout description and MLBF2	ELX-DG-22779	12/26/2017
		for signal contact		

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