

Positronic Provides Complete Capability **Mission Statement**

Experience

- Founded in 1966
- **Involvement** in the development of international connector specifications through EIA®, IEC and ISO as well as PICMG®.
- Introduction of new and unique connector products to the electronics industry.
- Patent holder for many unique connector features and manufacturing techniques.
- Vertically integrated manufacturing raw materials to finished connectors.

Technology

- Expertise with solid machined contacts provides a variety of high reliability connectors including high current density power connectors.
- Quality Assurance lab is capable of testing to IEC, EIA, UL, CUL, military and customer-specified requirements.
- In-house design and development of connectors based on market need or individual customer requirements.
- Internal manufacturing capabilities include automatic precision contact machining. injection molding, stamping, plating operations and connector assembly.
- Manufacturing locations in southwest Missouri, U.S.A. (headquarters); Puerto Rico, France, China, Singapore, and India. Total square footage: 407,441.

Support

- Quality Systems: Select locations qualified to ISO 9001, ISO 14001, AS9100, MIL-STD-790 and customer "dock to stock" programs. Applicable products qualified to MIL-DTL-24308, AS39029, DSCC 85039, MIL-DTL-28748, Space D32, GSFC S-311-P-4 and GSFC S-311-P-10.
- Compliance to a variety of international and customer specific environmental requirements.
- Large in-house inventory of finished connectors. Customer specific stocking programs.
- Factory direct technical sales support in major cities worldwide.
- One-on-one customer support from worldwide factory locations.
- World class web site.
- Value-added solutions and willingness to develop custom products with reasonable price and delivery.

Regional Headquarters



Auch, France





Products described within this catalog may be protected by one or more of the following US patents: #4,900,261† #5,255,580 #5,329,697 #6,260,268

#6,835,079 #7,115,002 #8,944,697 #9,304,263 †Patented in Canada, 1992 Other Patents Pending Positronic Industries' FEDERAL SUPPLY CODE (Cage Code) FOR MANUFACTURERS is 28198

Unless otherwise specified, dimensional tolerances are:

- ±0.001 inches [0.03 mm] for male contact mating diameters.
- ±0.003 inches [0.08 mm] for contact termination diameters.
- ±0.005 inches [0.13 mm] for all other diameters.
- ±0.015 inches [0.38 mm] for all other dimensions.

POSITRONIC® IS AN ITAR REGISTERED COMPANY

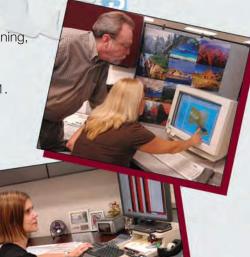
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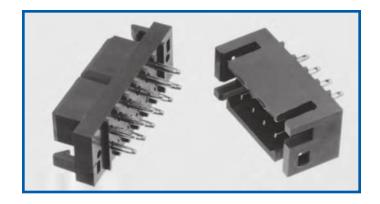


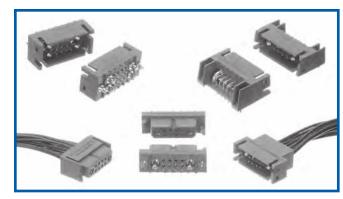
"To utilize product flexibility and application

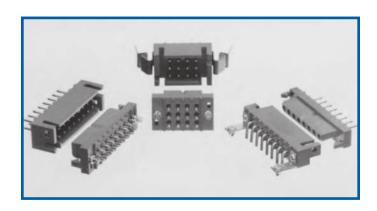
assistance to present quality interconnect solutions



Proven Performance







In 1989, Positronic Introduced the Power Connection Systems series. Since that time PCS has been the power connector of choice in a wide variety of applications. The popularity of PCS is due to a growing list of features, they include:

Low Contact Resistance

Sequential Mating Options

Discriminating Locking System

Board to Board / Board - Cable / Cable - Cable

Size 12 Contacts with Screw Terminations

Safety Shrouded Options

**Many Connector Variants
Available From Stock**

Mixed Density Variants



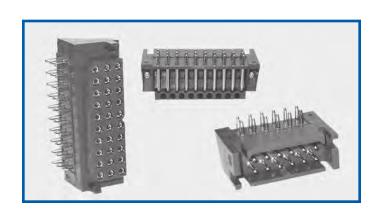




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PCS MIXED DENSITY

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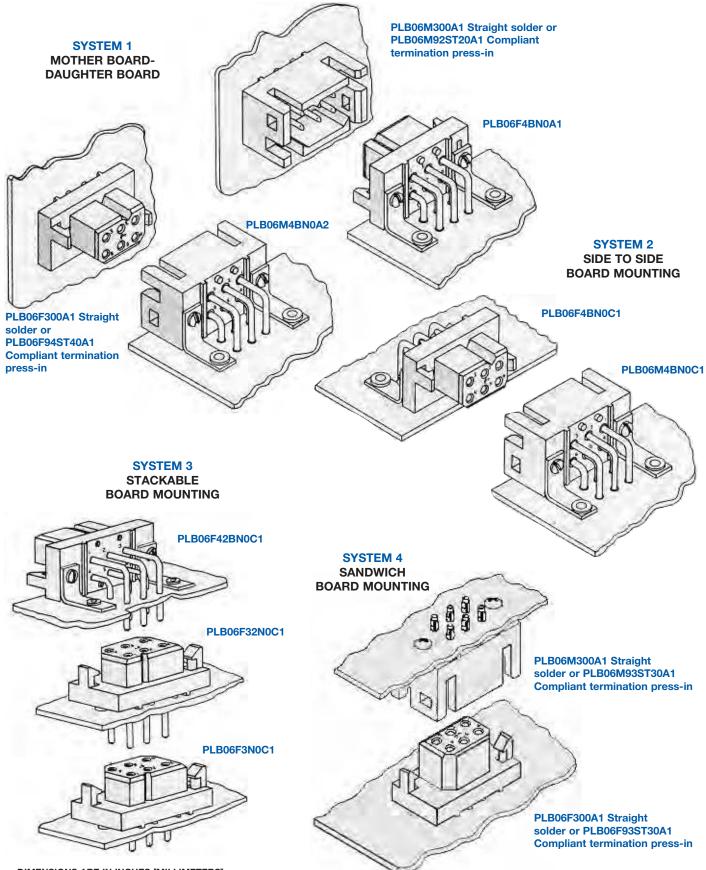
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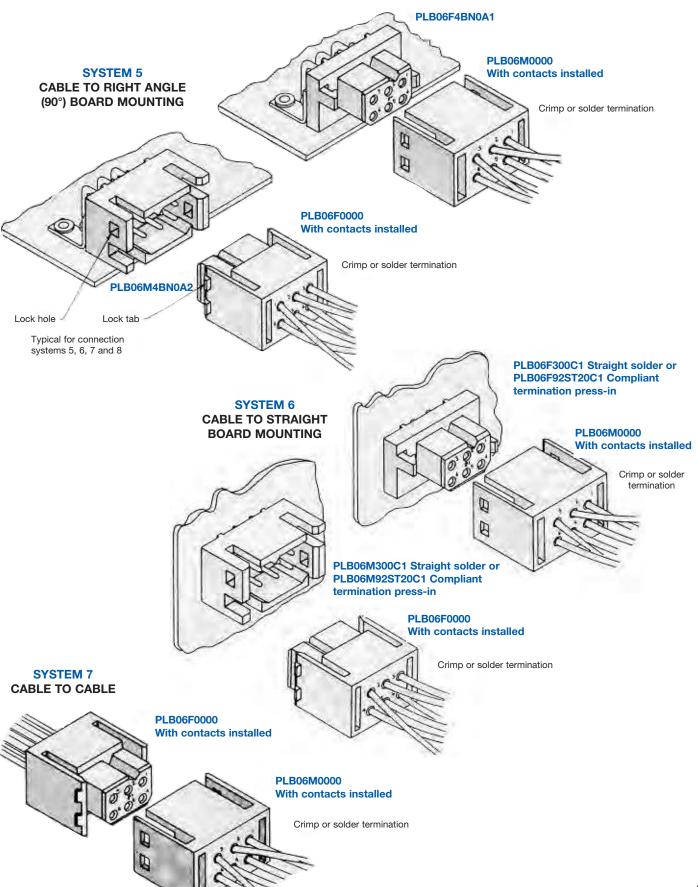
PRINTED BOARD TO PRINTED BOARD CONNECTION SYSTEMS

Power Connection Systems



GENERAL INFORMATION

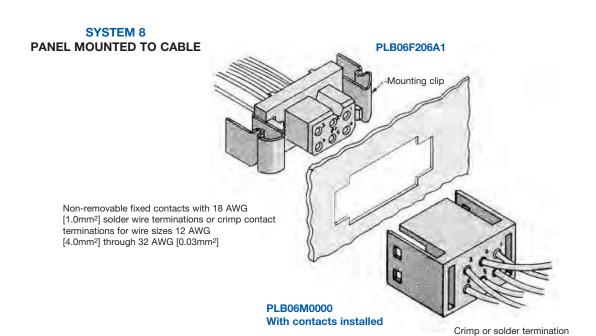
CABLE CONNECTION SYSTEMS

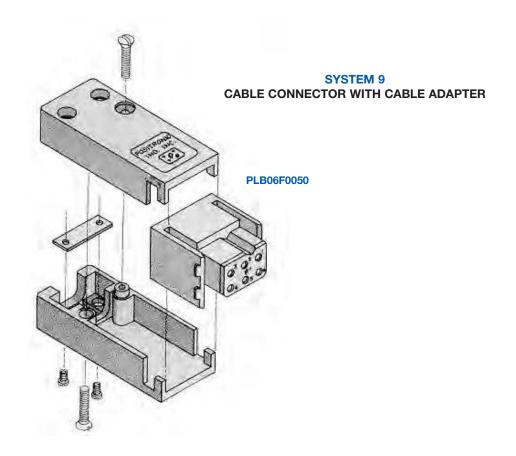




PANEL MOUNT & CABLE ADAPTERS CONNECTION SYSTEMS

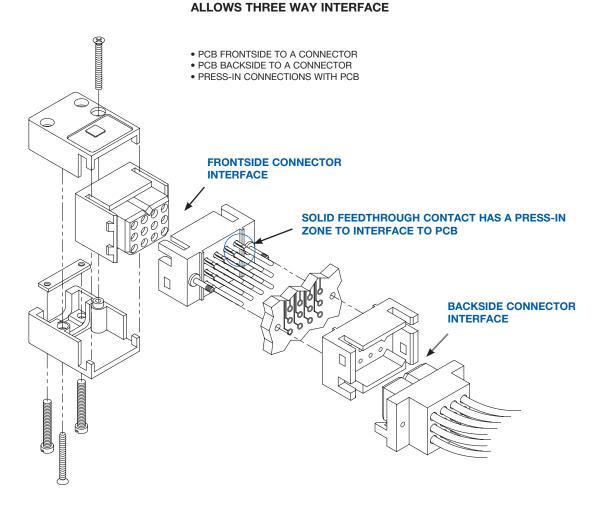
Power Connection Systems







INTEGRAL FEED THROUGH CONNECTION SYSTEM



CONTACT TECHNICAL SALES FOR MORE INFORMATION.



These are:

DEMYSTIFYING CURRENT RATINGS

Power Connection Systems

DEMYSTIFYING CURRENT RATINGS

Connector current ratings seem to be shrouded in mystery at times. The user wonders how a listed current rating is relevant to a particular application. Perhaps more mysterious is how similar connectors from various manufacturers list different current rating values. While it is true that material choices and design can enhance a connector's current rating, the test method by which the rating was developed must be understood when evaluations are made.

Users of connectors for power applications are entitled to current rating test details in order to make an informed choice. Ideally, a connector's current rating should be developed within the application for which it is being considered. Although ideal, this approach is not always practical given the many differing applications. In order for connector manufacturers to give potential product users an idea of what can be expected, connectors are given current ratings based on a specific test method.

A wide variety of test methods are employed in order to develop current ratings for connectors. Some of these methods come from standards that are recognized industry-wide, while others are unique to the manufacturer or user. These various test methods can produce different results for the same product. It is no wonder confusion sometimes results.

There are key factors that, when understood, can help in choosing the right power connector. All test methods used to rate current have similarities; however, there are variables in applying the test methods which explain differing results.

Current ratings are usually established by first developing a temperature rise curve. This curve plots temperature rise against increasing current levels. The curve is a reliable tool in understanding heat generation of the connector at various currents. When a defined failure is reached, the test ends. The highest current level achieved is usually listed as the current rating.

The temperature rise curve, and therefore the current rating, will change when certain key factors are varied.

- Where is the temperature sensing probe placed? If placed on the contact in the mating area (the hottest spot), the results will be quite different than if placed on the outside of the connector body.
- Are the contacts being tested and rated in free air or are they contained within the connector housing? Contacts will obviously be cooler in free air.
- Are all of the contacts in the connector under load? If only part of the contacts are under load, the temperature rise could be less.
- What is the defined failure? Does the test end when the temperature rise reaches 30°C, 40°C, or some other number? Does it end when the temperature rise plus ambient temperature equal the operating limit of the connector housing? The current rating will be fixed by the defined failure point.
- How were the test samples prepared? Were the samples energized through a printed circuit board? How many layers? How large were the traces? What was the weight of the copper? Were the samples energized through wire? What size was the wire? How long was the wire? Was the sample tested in static or forced air conditions? All of these factors can affect cooling characteristics.

Clearly, a current rating value alone is not enough, and must be viewed in the context of the test used to develop the rating. When the test method is understood, evaluating and comparing power connectors for specific applications becomes much less of a mystery.

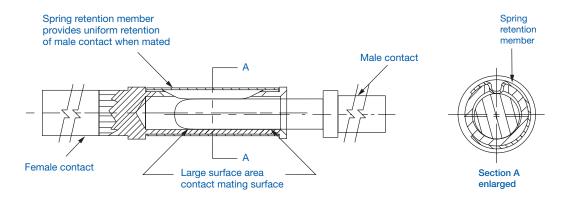
GENERAL INFORMATION

LARGE SURFACE AREA CONTACT MATING SYSTEM

THE PCS SERIES utilizes Positronic

LARGE SURFACE AREA CONTACT MATING SYSTEM

- Separates mechanical and electrical functions for superior performance
- Low contact resistance provides minimized voltage drop across the contact
- True closed entry design prevents damage to female contacts and will not allow misaligned or bent contacts to enter
- Precision machined from solid copper alloy
- Stable insertion and withdrawl forces throughout repeated mating cycles





WHY IS THE L.S.A. SYSTEM SUPERIOR?

The primary function of connector contact is electrical conductivity. Also, a mechanical function is required to provide normal force between male and female contacts.

In order to provide for proper mechanical characteristics, material that has good memory or "elasticity" must be chosen. This will ensure contact normal force in a coupled condition and allow for repeated coupling and uncoupling.

Unfortunately, many materials that have good memory characteristics have low electrical conductivity. For instance, beryllium copper is a good choice for mechanical function; however, some beryllium copper alloys are poor conductors and have relatively low conductivity

rates.

The conductivity path of many contact designs goes directly through materials that have been chosen based on mechanical need. If these materials have a low conductivity rating, increased contact resistance will result.

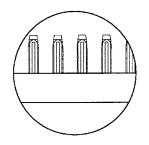
Positronic Large Surface Area Contact System separates the mechanical and electrical functions. A spring retention member provides normal forces, while the electrical conductivity path is through highly conductive contact material. See above detail.

BI-SPRING POWER PRESS-IN TERMINATIONS

The Next Evolution In Compliant Technology. Fully Compliant, Fully Reliable.

Reliable, solderless connections from connectors relatively high insertion and extraction forces. to backplanes started with solid press-in technology. board damage led to the use of compliant press-in technology. This technology allows the connection to be made through compliance of the contact termination along with printed circuit board hole deformation. Although risk of damaged printed circuit boards and backplanes is lessened, damage can still occur due to

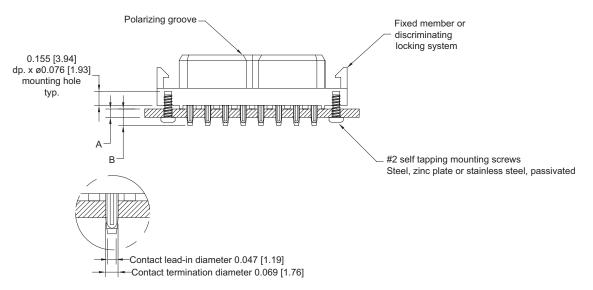
The next step in press-in technology is a highly Although these are still used today, concerns about reliable connection between the contact termination and backplane that is accomplished with reduced insertion and extraction forces. This eliminates risk of printed circuit. board and backplane damage. This technology exists today with Positronic Bi-Spring Power Press-in termination.



Bi-Spring Power Press-in Compliant Terminations

- Average insertion and extraction forces of size 16 contacts are 22N [5 lbs.] per contact and do not produce stresses in printed circuit boards and backplanes that can occur with higher insertion forces. These stresses can cause board warpage and hole damage.
 - Connector systems utilizing Bi-Spring terminations use mounting screws to secure the connector to the printed circuit board or backplane. Stresses that occur during coupling, uncoupling or shock and vibration of systems are not transferred to the printed circuit boards or backplanes through the press-in connection. The electrical integrity of the connector to board interface is maintained; this is particularly important in power applications. Bellcore GR1217 details a preference for mounting hardware when using press-in terminations.
- Size 16 Bi-Spring terminations are designed to meet the performance requirements and hole diameters as listed in the internationally recognized specification IEC 60352-5.
- Lower insertion and extraction forces eliminate the need for expensive pressing equipment.

COMPLIANT TERMINATION PRESS-IN CONNECTOR



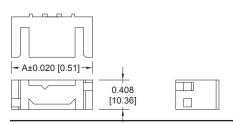
CUSTOMER SPECIFIED ARRANGEMENTS



The design of Power Connection Systems Series connectors allows for the development of application specific contact arrangements in a timely manner and at a reasonable price. Thirteen connector housing sizes exist that may accommodate size 20, size 16, size 12, or size 8 contacts (see the Power Connection Systems catalog for connector housing dimensions). After reviewing the dimensions and the following basic information, contact Technical Sales with your current, voltage, and safety requirements. We look forward to working with you to develop a connector for your specific needs.

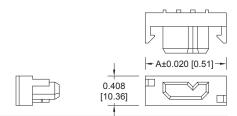
BASIC CONNECTOR DIMENSIONS

Male Connector Dimensions



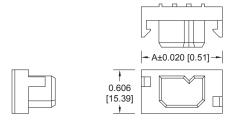
PART NUMBER	Α
PLA03**00A1 PLAH03**00A1	1.126 [28.60]
PLA04**00A1 PLAH04**00A1	1.324 [33.63]
PLA06**00A1	1.718
PLAH06**00A1	[43.64]
PLA08**00A1	2.112
PLAH08**00A1	[53.64]

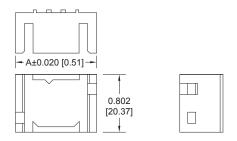
Female Connector Dimensions



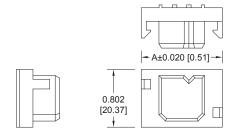


PART NUMBER	Α
PLB06**00A1	1.126
PLBH06**00A1	[28.60]
PLB08**00A1	1.324
PLBH08**00A1	[33.63]
PLB12**00A1	1.718
PLBH12**00A1	[43.64]
PLB16**00A1	2.112
PLBH16**00A1	[53.64]
PLB20**00A1	2.506
PLBH20**00A1	[63.65]

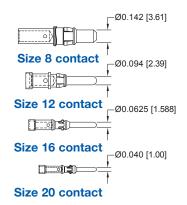




PART NUMBER	Α
PLC09**00A1	1.126
PLCH09**00A1	[28.60]
PLC12**00A1	1.324
PLCH12**00A1	[33.63]
PLC18**00A1	1.718
PLCH18**00A1	[43.64]
PLC24**00A1	2.112
PLCH24**00A1	[53.64]
PLC30**00A1	2.506
PLCH30**00A1	[63.65]



Four Contact Sizes to Choose From



Many Termination Types Can Be Supplied

Straight Solder or Press-in Right Angle (90°) Solder Crimp Removable Removable Solder Cup

Popular Options

Sequential Mating Selective Loading

Contact sizes and termination types may be mixed within a single connector.



TECHNICAL INFORMATION

Power Connection **S**ystems

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass-filled polyester, UL 94V-0.

Contact technical sales for availability of high

temperature insulator material

Contacts:

Precision machined copper alloy with gold flash over nickel, or 0.000030 inch [0.76µ] gold over nickel, or 0.000050 [1.27µ] gold over nickel. Solder coated terminations

optional.

Mounting Clip: Beryllium copper with nickel plate.

Hood: Glass filled polyester, UL 94V-0. **Mounting Bracket:** Brass with tin plate.

Push-on Fastener: Spring tempered copper alloy, tin plate

ELECTRICAL CHARACTERISTICS:

CONTACT CURRENT RATING:

Standard Contact Material: See page 9 for detail information.

High Conductivity

Contact Material: See page 9 for detail information.

INITIAL CONTACT RESISTANCE:

Standard Contact Material: 0.0016 ohms max. per IEC 60512-2, test 2b.

High Conductivity

Contact Material: 0.0007 ohms max, per IEC 60512-2, test 2b.

5 G ohms per IEC 60512-2, test 3a, method A. Insulation Resistance:

Voltage Proof: 2000 V rms per IEC 60512-2, test 4a, method C. Creepage Distance: 0.157 inch [4 mm] minimum.

Clearance Distance: 0.125 inch [3.2 mm] minimum. Working Voltage: Designed to meet UL 600 VAC and

CSA 600 VAC.

Working Temperature: -55°C to +125°C

Contact technical sales for availability of high

temperature insulator material

ELECTRICAL CHARACTERISTICS OF COMPLIANT PRESS-IN CONNECTION TO PLATED-THROUGH-HOLE OF PRINTED BOARD:

> 0.064 inch [1.63mm] diameter hole of a 0.125 inch [3.2mm] thick printed board

Initial Contact Resistance

of Connection:

Less than 1.0 milliohms per IEC 60512-2,

test 2a.

Change in Contact Resistance of Connection After Mechanical, Electrical

or Climactic Conditioning:

Gas Tight Connections

Test:

Less than 0.5 milliohms increase per IEC

60512-2, test 2a.

Less than 0.2 milliohms increase in contact resistance after 1 hour per EIA 364, TP36,

Method One.

SHIELDED CONTACT TECHNICAL **CHARACTERISTICS:**

See page 47.

MECHANICAL CHARACTERISTICS:

Removable Contacts:

Insert contact to rear face of insulator, release from front face of insulator. Size 16, 0.0625 inch [1.588 mm] diameter male contact. Female contact "closed entry" design for Female contact highest reliability.

Removable Contact Retention in Insulator:

Fixed Contacts:

15 lbs. [67N] per IEC 60512-8, test 15a.

Solder cup and printed board terminations. Size 16, 0.0625 inch [1.588 mm] diameter male contact. Female contact has "closed

entry" design for highest reliability.

Fixed Contact Retention in Insulator:

Resistance to Solder

6 lbs. [26N].

Iron Heat:

 500°F [260°C] for 10 seconds duration per IEC 60512-6, test 12e, 25 watt soldering iron.

Crimp or solder removable contacts from wire sizes 12 AWG [4.0 mm²] through 24 AWG [0.25 mm²]. Straight and Right Angle (90°) solder printed board mount, 0.0625 inch [1.588 mm] **Contact Terminations:**

tail diameter. Compliant termination press-in. Fixed contact solder cup termination, 18 AWG [1.0 mm²] maximum.

Contact Insertion and

Withdrawal Forces: 8 oz. [2.2N] nominal per contact.

Connection Systems: Connector provides cable to cable, cable to printed board, cable to panel mount and printed board to printed board application.

Sequential Mating System: Cable and printed board mount connectors.

Male contacts provide as many as three mating lenaths.

Locking System:

Insulators provide locking between cable to cable, cable to printed board and cable to panel mount applications.

Polarizations: Provided in insulator design. Further polar-

ization in cable connectors can be provided by mixing male contacts in female insulators and female contacts in male insulators.

Mounting to Printed Board: Rapid installation push-on fasteners. Self-tapping screws for compliant connectors.

Mechanical Operations:

500 operations per IEC 60512-5.

MECHANICAL CHARACTERISTICS OF COMPLIANT PRESS-IN CONNECTORS:

Press-in Contact Bi-Spring Construction, Compliant

Termination:

0.0695 inch [1.77mm] diameter with 0.050 inch [1.27mm] lead-in diameter. Offered with

two termination lengths.

Contact Retention in Insulator and 0.125 inch [3.2mm] thick printed board:

5 lbs. [22N] minimum combined retention forces per MIL-STD-2166, Type III compliant

contact classification, after third repairreplacement of contact in insulator and plated-through-hole, 0.064 inch [1.63mm] diameter in a 0.125 inch [3.2mm] thick printed board.

Vibration:

No electrical discontinuity of 1µ second or greater when tested per MIL-STD-1344,

Method 2005, Test conditioning.

Initial Press-In Force of Individual Contact into Plated-Through-Hole:

10 lbs. [44N] average when pushed into a 0.064 inch [1.63mm] Ø hole in a 0.125 inch [3.2mm] thick printed board.

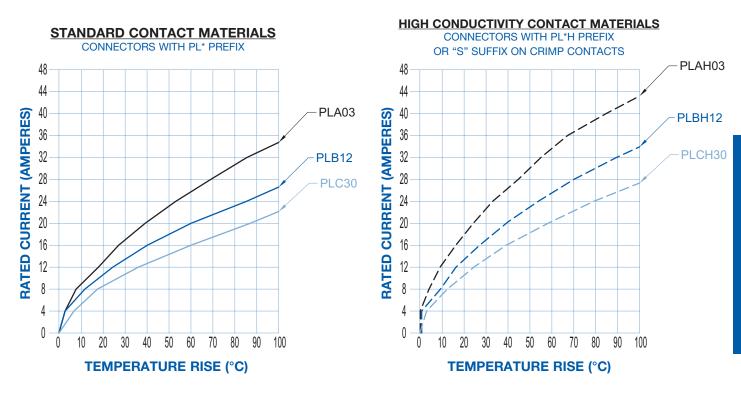
Initial Push-Out Force of Individual Contact into Plated-Through-Hole:

8.5 lbs. [38N] average when pushed out of an 0.064 inch [1.63mm] Ø hole in a 0.125 inch [3.2mm] thick printed board.

CUL Recognized*

File # E49351

TEMPERATURE RISE CURVE



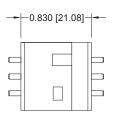
TEST DETAIL: Each curve was developed using individual connector bodies fully loaded with contacts. All power contacts energized through 12 awg wire. Temperature rise was measured in the contact mating area. Test was conducted with connectors in static air. Terminations of test connectors were straight compliant press-in to right angle (90°) solder. See page 4 for more information.

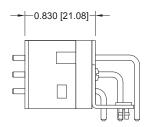
CONTACT CURRENT RATINGS							
CONNECTOR VARIANT	STANDARD CONTACTS	CONNECTOR VARIANT	HIGH CONDUCTIVITY CONTACTS				
PLA03	32 amperes	PLAH03	42 amperes				
PLB12	25 amperes	PLBH12	32 amperes				
PLC30	18 amperes	PLCH30	24 amperes				

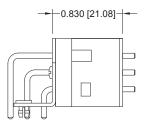
Temperature rise curves and contact current ratings were developed for the specific connector variants shown when tested in accordance with UL1977.

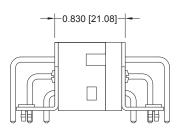
This information is provided so that the user can make comparisons between various connector sizes and contact materials.

MATING DIMENSIONS (FULLY MATED)







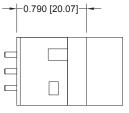


Straight Board Mount Male to Straight Board Mount Female

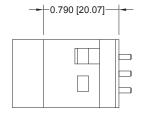
Straight Board Mount Male to Right Angle (90°) Board Mount Female

Right Angle (90°) Board Mount Male to Straight Board Mount Female

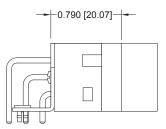
Right Angle (90°) Board Mount Male to Right Angle (90°) Board Mount Female



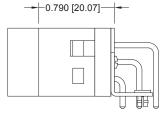
Straight Board Mount Male to Panel Mount Female



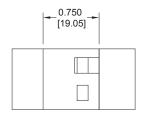
Panel Mount Male to Straight Board Mount Female



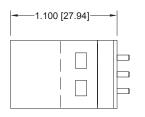
Right Angle (90°) Board Mount Male to Panel Board Mount Female



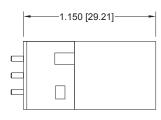
Panel Mount Male to Right Angle (90°) Board Mount Female



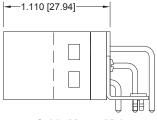
Panel Mount Male to Panel Mount Female



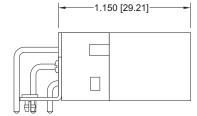
Cable Mount Male to Straight Board Mount Female



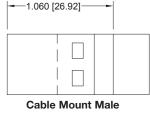
Straight Board Mount Male to Cable Mount Female



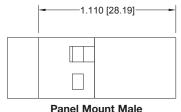
Cable Mount Male to Right Angle (90°) Board Mount Female



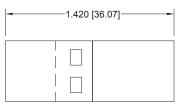
Right Angle (90°) Board Mount Male to Cable Mount Female



Cable Mount Male to Panel Mount Female

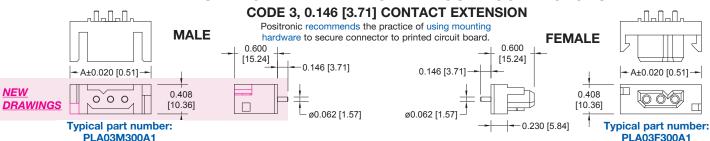


Panel Mount Male to Cable Mount Female



Cable Mount Male to Cable Mount Female

PLA STRAIGHT PRINTED BOARD MOUNT CONNECTORS



PLA03M300A1 PLAH03M300A1

NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER, SEE PAGE 59.

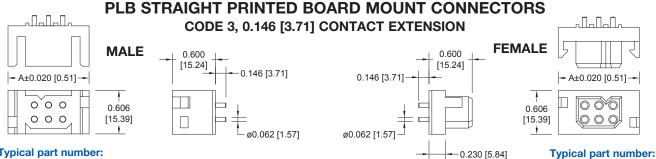
PART NUMBER PART NUMBER PLA03*300A1 1.126 PLA06*300A1 1.718 [43.64] PLAH03*300A1 PLAH06*300A1 1.324 PLA08*300A1 PLAH08*300A1 2.112 [53.64] PLA04*300A1 PLAH04*300A1

> *Asterisk determines gender of connector, M for male, F for female.

Plating- See ordering information for contact plating options.

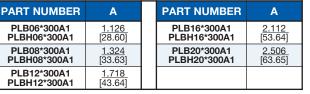
PLAH03F300A1

For connection systems 1, 4 and 6.



Typical part number: PLB06M300A1 PLBH06M300A1

NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.



*Asterisk determines gender of connector, M for male, F for female. Plating- See ordering information

PLB06F300A1

PLAH06F300AI

for contact plating options.

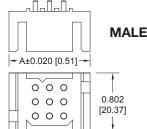
For connection systems 1, 4 and 6.

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for contact plating options.

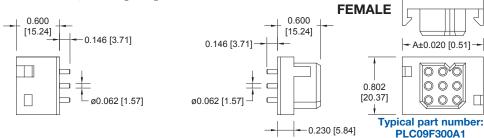
PLCH09F300A1





Typical part number: PLC09M300A1 PLCH09M300A1

NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.



PART NUMBER Α **PART NUMBER** Α PLC09*300A1 PLC24*300A1 1.126 PLCH09*300A1 [28.60] PLCH24*300A1 [53.64] PLC12*300A1 1.324 [33.63] PLC30*300A1 PLCH30*300A1 2.506 [63.65] PLCH12*300A1 1.718 [43.64] PLC18*300A1 PLCH18*300A1

Plating- See ordering information

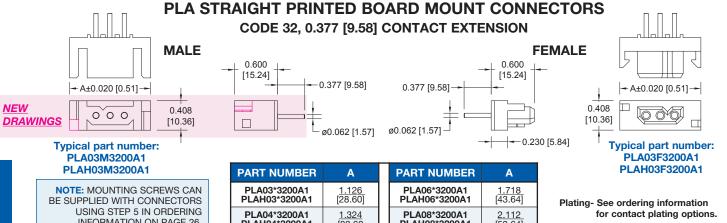
For connection systems 1, 4 and 6.

*Asterisk determines gender of connector. M for male, F for female.



STRAIGHT SOLDER PRINTED **BOARD CONNECTOR**

Power Connection Systems

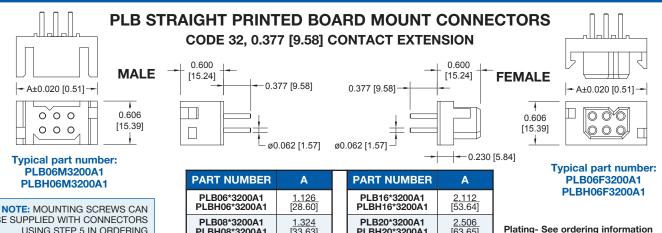


INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.

1.324 PLAH04*3200A1 PLAH08*3200A1 [53.64]

*Asterisk determines gender of connector, M for male, F for female.

For connection systems 1, 3, 4 and 6.



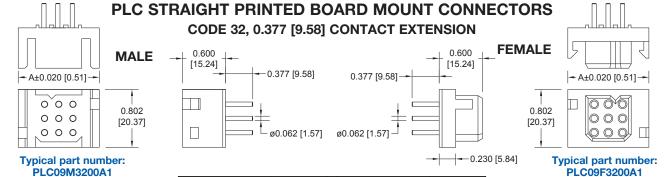
BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.

PART NUMBER	A	Р	ART NUMBER	Α
PLB06*3200A1	<u>1.126</u>		PLB16*3200A1	<u>2.112</u>
PLBH06*3200A1	[28.60]		PLBH16*3200A1	[53.64]
PLB08*3200A1	<u>1.324</u>		PLB20*3200A1	2.506
PLBH08*3200A1	[33.63]		PLBH20*3200A1	[63.65]
PLB12*3200A1 PLBH12*3200A1	1.718 [43.64]			

*Asterisk determines gender of connector, M for male. F for female.

for contact plating options.

For connection systems 1, 3, 4 and 6.



NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART

PLCH09M3200A1

PART NUMBER PART NUMBER Α PLC09*3200A1 PLCH09*3200A1 PLC24*3200A1 PLCH24*3200A1 1.126 [28.60] 1.324 [33.63] PLC30*3200A1 PLCH30*3200A1 PLC12*3200A1 PLCH12*3200A1 PLC18*3200A1 PLCH18*3200A1 1.718 [43.64]

Plating- See ordering information for contact plating options.

Α

2.112 [53.64]

PLCH09F3200A1

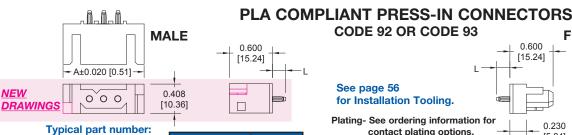
For connection systems 1, 3, 4 and 6.

*Asterisk determines gender of connector, M for male, F for female.

NUMBER. SEE PAGE 59.

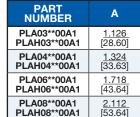
COMPLIANT PRESS-IN CONNECTOR

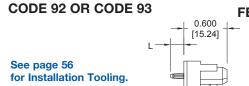




PLA03M93ST30A1 PLAH03M93ST30A1

**Asterisks determine gender of connector, M for male, F for female and contact code 92 or 93.

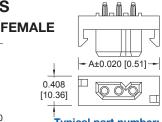




Plating- See ordering information for contact plating options.

For connection systems 1, 4 and 6.

NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws can be supplied with connectors using step 5 in ordering information on page 26. Mounting screws can also be ordered separately by part number. See page 59.



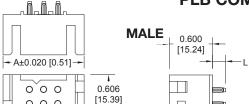
0.230

[5.84]

Typical part number: PLA03F93ST30A1 PLAH03F93ST30A1

CONTACT CODE	L	PCB THICKNESS
92	0.183 [4.65]	<u>0.093</u> [2.36]
93	<u>0.218</u> [5.54]	<u>0.125</u> [3.18]

PCS SERIES



Typical part number: PLB06M93ST30A1 PLBH06M93ST30A1

**Asterisks determine gender of connector, M for male, F for female and contact code 92 or 93.

000

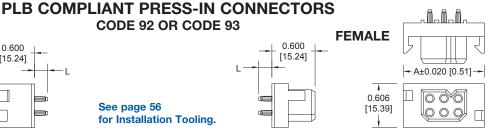
PART NUMBER	А
PLB06**00A1	1.126
PLBH06**00A1	[28.60]
PLB08**00A1	1.324
PLBH08**00A1	[33.63]
PLB12**00A1	1.718
PLBH12**00A1	[43.64]
PLB16**00A1	<u>2.112</u>
PLBH16**00A1	[53.64]
PLB20**00A1	2.506
PLBH20**00A1	[63.65]



for Installation Tooling. Plating- See ordering information [5.84] for contact plating options.

For connection systems 1, 4 and 6.

NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws can be supplied with connectors using step 5 in ordering information on page 26. Mounting screws can also be ordered separately by part number. See page 59.



Typical part number: PLB06F93ST30A1 PLBH06F93ST30A1

CONTACT CODE	L	PCB THICKNESS
92	0.183 [4.65]	<u>0.093</u> [2.36]
93	0.218 [5.54]	<u>0.125</u> [3.18]

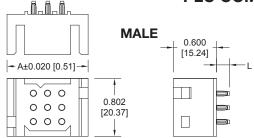
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PLCH09F93ST30A1

FEMALE

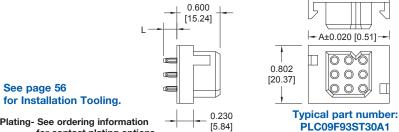
PLC COMPLIANT PRESS-IN CONNECTORS **CODE 92 OR CODE 93**



Typical part number: PLC09M93ST30A1 PLCH09M93ST30A1

**Asterisks determine gender of connector, M for male, F for female and contact code 92 or 93.

PART NUMBER	Α
PLC09**00A1	<u>1.126</u>
PLCH09**00A1	[28.60]
PLC12**00A1	1.324
PLCH12**00A1	[33.63]
PLC18**00A1	1.718
PLCH18**00A1	[43.64]
PLC24**00A1	2.112
PLCH24**00A1	[53.64]
PLC30**00A1	2.506
PLCH30**00A1	[63.65]



Plating- See ordering information for contact plating options.

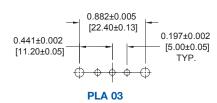
For connection systems 1, 4 and 6.

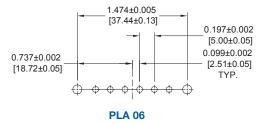
NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws can be supplied with connectors using step 5 in ordering information on page 26. Mounting screws can also be ordered separately by part number. See page 59.

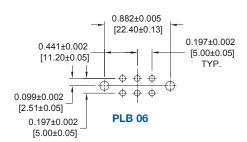
CONTACT CODE	L	PCB THICKNESS
92	0.183 [4.65]	0.093 [2.36]
93	0.218 [5.54]	<u>0.125</u> [3.18]

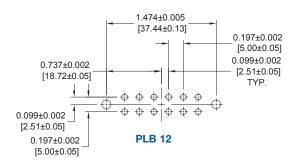


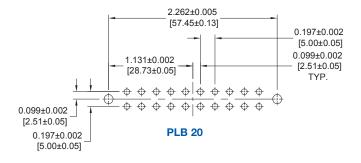
STRAIGHT SOLDER AND COMPLIANT CONTACT HOLE PATTERN

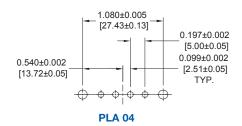


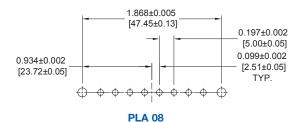


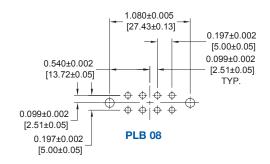


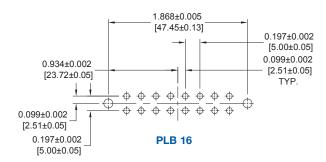












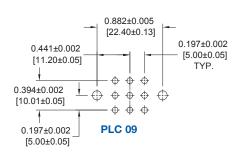
SUGGESTED PRINTED BOARD HOLE SIZES:

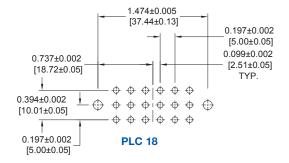
Suggest 0.080 [2.03] \varnothing holes in printed board for solder contact termination positions.

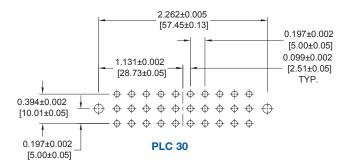
Suggest 0.100 [2.54] Ø holes in printed board when mounting connectors with # 2 thread forming screws.

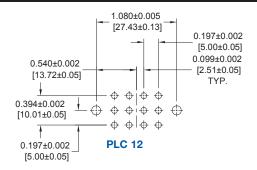
Suggest 0.123 ± 0.003 [3.15 ±0.08] Ø holes in printed board when mounting connector with push-on fasteners.

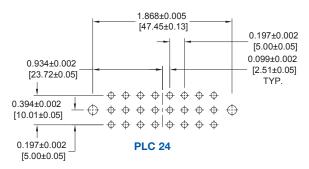
NOTE: See page 57 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.











SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.080 [2.03] $\ensuremath{\mathcal{O}}$ holes in printed board for solder contact termination positions.

Suggest 0.100 [2.54] Ø holes in printed board when mounting connectors with # 2 thread forming screws.

Suggest 0.123 ± 0.003 [3.15 ±0.08] Ø holes in printed board when mounting connector with push-on fasteners.

NOTE: See page 57 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

Connectors Designed To Customer Specifications

Positronic's PLA(H), PLB(H), PLC(H) and PLS(H) series connectors can be modified to customers specifications.

Examples: select loading of contacts for cost savings or to gain creepage and clearance distances; longer printed circuit board terminations; customer specified hardware.

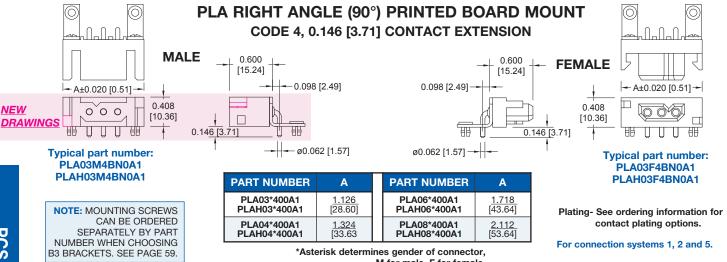
Positronic can develop and tool new connector designs with reasonable price and delivery.

Contact Technical Sales with your particular requirements.

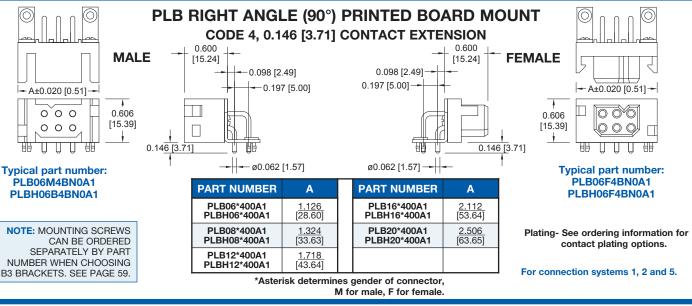


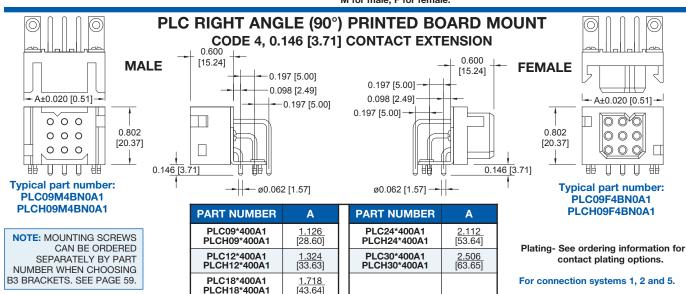
RIGHT ANGLE (90°) SOLDER PRINTED BOARD CONNECTOR

Power Connection **S**ystems







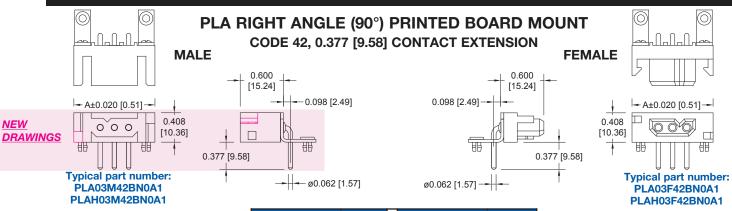


PLCH18*400A1

Power Connection Systems

RIGHT ANGLE (90°) SOLDER PRINTED BOARD CONNECTOR





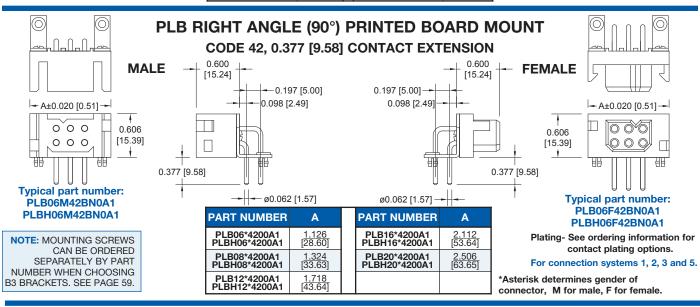
NOTE: MOUNTING SCREWS CAN BE ORDERED SEPARATELY BY PART NUMBER WHEN CHOOSING B3 BRACKETS. SEE PAGE 59.

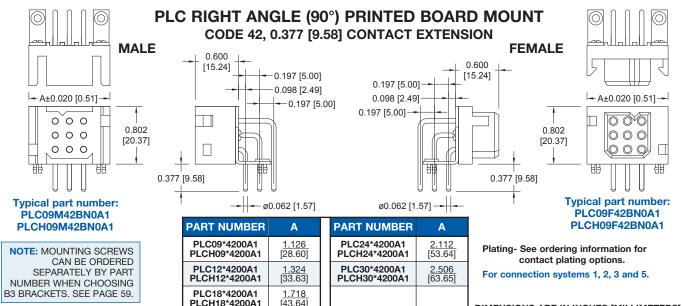
PART NUMBER	Α
PLA03*4200A1	1.126
PLAH03*4200A1	[28.60]
PLA04*4200A1	1.324
PLAH04*4200A1	[33.63]

Plating- See ordering information for contact plating options.

For connection systems 1, 2, 3 and 5.

*Asterisk determines gender of connector, M for male, F for female.

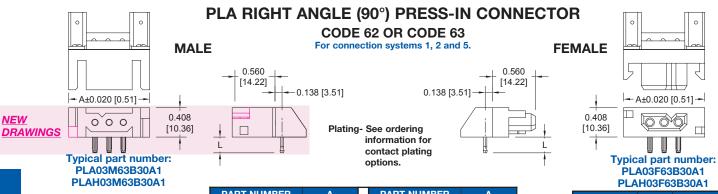






RIGHT ANGLE (90°) PRESS-IN CONNECTOR FOR USE WITH "FLAT ROCK" TOOLING

Power Connection **S**ystems

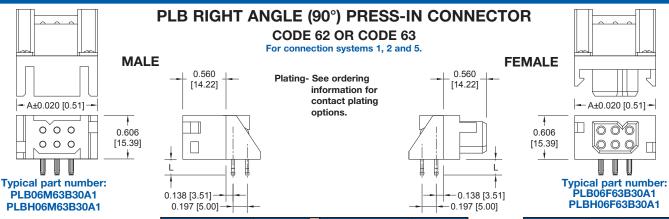


NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws are ordered separately by part number. See page 59.

PART NUMBER	Α	PART NUMBER	Α
PLA03**B30A1	<u>1.126</u>	PLA06**B30A1	1.718
PLAH03**B30A1	[28.60]	PLAH06**B30A1	[43.64]
PLA04**B30A1	<u>1.324</u>	PLA08**B30A1	<u>2.112</u>
PLAH04**B30A1	[33.63]	PLAH08**B30A1	[53.64]

^{**}Asterisk determines gender of connector, M for male, F for female, and contact code 62 or 63.

CONTACT **PCB** CODE **THICKNESS** 0.093 0.183 62 [4.65] [2.36]0.219 0.125 [3.18]

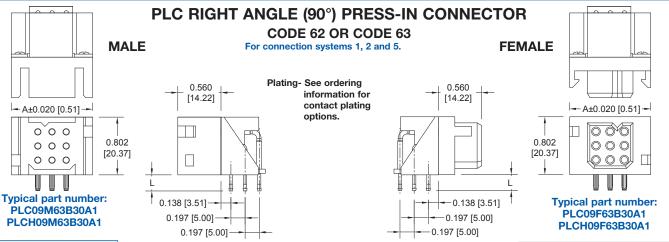


NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws are ordered separately by part number. See page 59.

PART NUMBER	Α	PART NUMBER	Α
PLB06**B30A1	1.126	PLB12**B30A1	1.718
PLBH06**B30A1	[28.60]	PLBH12**B30A1	[43.64]
PLB08**B30A1	1.324	PLB16**B30A1	2.112
PLBH08**B30A1	[33.63]	PLBH16**B30A1	[53.64]

^{**}Asterisk determines gender of connector, M for male, F for female, and contact code 62 or 63.

CONTAC CODE **PCB THICKNESS** 0.183 0.093 62 [4.65] [2.36] 0.219 0.125 [5.56] [3.18]

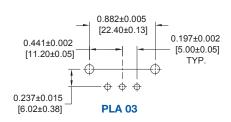


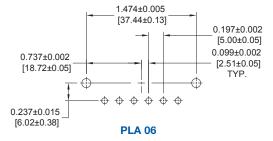
NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws are ordered separately by part number. See page 59.

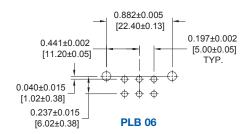
PART NUMBER	Α	PART NUMBER	Α
PLC09**B30A1 PLCH09**B30A1	1.126 [28.60]	PLC24**B30A1 PLCH24**B30A1	<u>2.112</u> [53.64]
PLC12**B30A1 PLCH12**B30A1	1.324 [33.63]	PLC30**B30A1 PLCH30**B30A11	2.506 [63.65]
PLC18**B30A1	1.718		

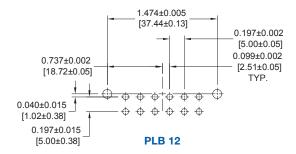
^{**}Asterisk determines gender of connector, M for male, F for female, and contact code 62 or 63.

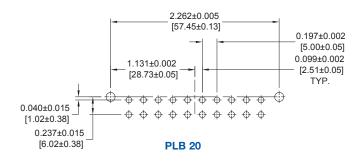
CONTACT

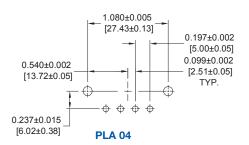


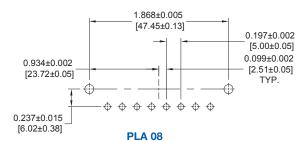


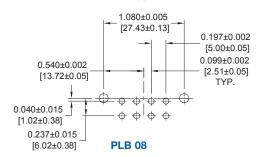


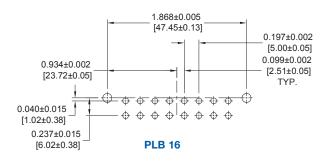


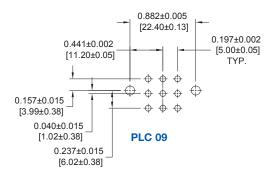










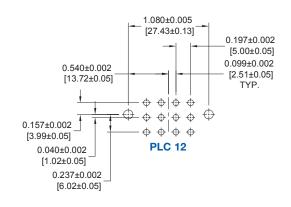


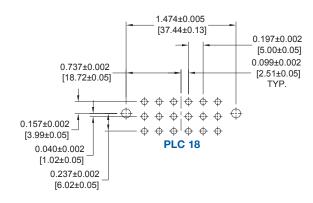
See page 20 for suggested printed board hole sizes.

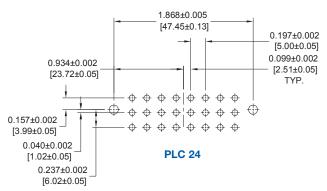


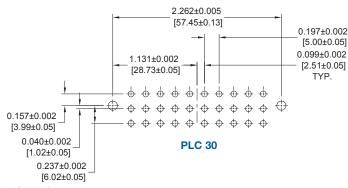
RIGHT ANGLE (90°) PRINTED BOARD CONTACT HOLE PATTERN AND PANEL MOUNT CONNECTOR Connection WITH SOLDER CUP CONTACTS

Power **S**ystems









SUGGESTED PRINTED BOARD HOLE SIZES:

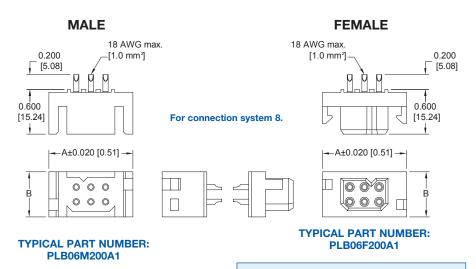
Suggest 0.080 [2.03] Ø holes in printed board for solder contact termination positions.

Suggest 0.123±0.003 [3.15±0.08] Ø holes in printed board when mounting connector with push-on fasteners.

NOTE: See page 57 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

PANEL MOUNT CONNECTORS WITH SOLDER CUP CONTACTS

CODE 2, 18 AWG [1.00mm²] MAX.



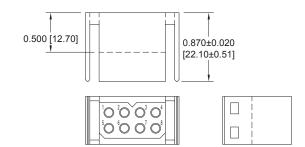
NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.

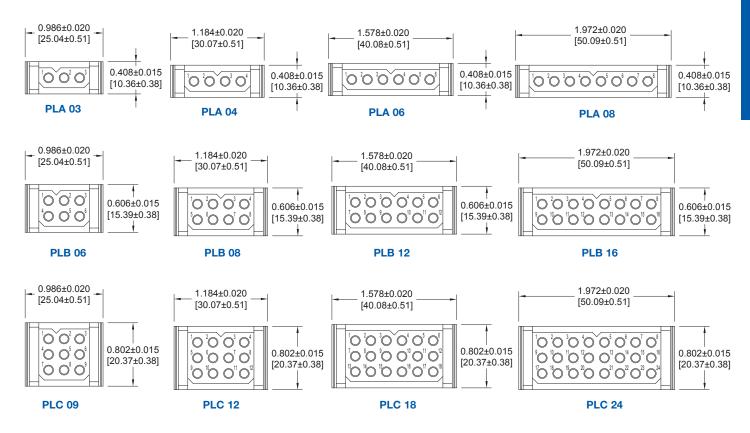
CONNECTOR VARIANTS	A	В
PLA03	1.126 [28.60]	0.408 [10.36]
PLA04	1.324 [33.63]	0.408 [10.36]
PLA06	1.718 [43.64]	0.408 [10.36]
PLA08	2.112 [53.64]	0.408 [10.36]
PLB06	1.126 [28.60]	0.606 [15.39]
PLB08	1.324 [33.63]	0.606 [15.39]
PLB12	1.718 [43.64]	0.606 [15.39]
PLB16	2.112 [53.64]	0.606 [15.39]
PLB20	2.506 [63.65]	0.606 [15.39]
PLC09	1.126 [28.60]	0.802 [30.37]
PLC12	1.324 [33.63]	0.802 [30.37]
PLC18	1.718 [43.64]	0.802 [30.37]
PLC24	2.112 [53.64]	0.802 [30.37]
PLC30	2.506 [63.65]	0.802 [30.37]

MALE INSULATOR DIMENSIONS FOR CABLE CONNECTORS WITH SIZE 16 REMOVABLE CONTACTS

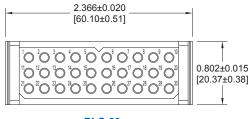
CODE 0 OR CODE 7

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY





For information regarding size 16 removable contacts, see Removable Contact section, pages 47-53.



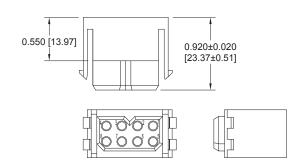
PLC 30

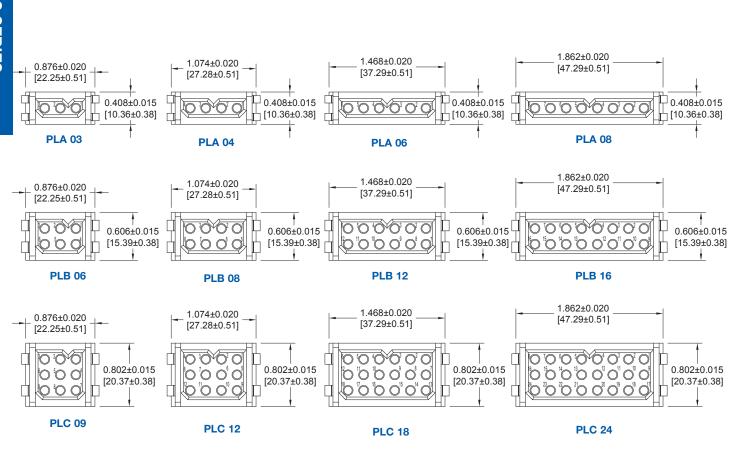
FEMALE INSULATOR DIMENSIONS FOR CABLE CONNECTORS

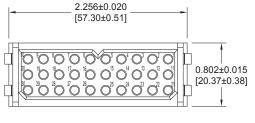
Power Connection Systems

FEMALE INSULATOR DIMENSIONS FOR CABLE CONNECTORS WITH SIZE 16 REMOVABLE CONTACTS CODE 0 OR CODE 7

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY





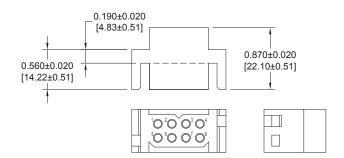


For information regarding size 16 removable contacts, see Removable Contact section, pages 47-53.

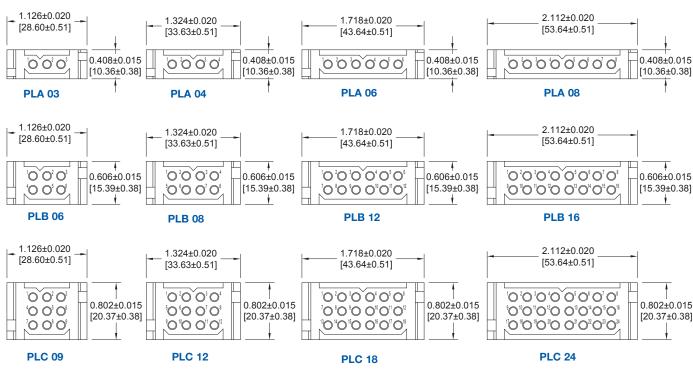
PLC 30

MALE INSULATOR DIMENSIONS FOR PANEL MOUNT CONNECTORS WITH SIZE 16 REMOVABLE CONTACTS CODE 1 OR CODE 8

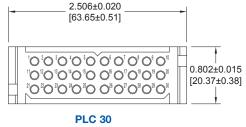
CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY



NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.



For information regarding panel cutouts, see page 63.



For information regarding size 16 removable contacts, see Removable Contact section, pages 47-53.

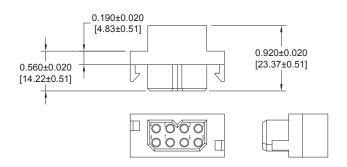


FEMALE INSULATOR DIMENSIONS FOR PANEL MOUNT CONNECTORS

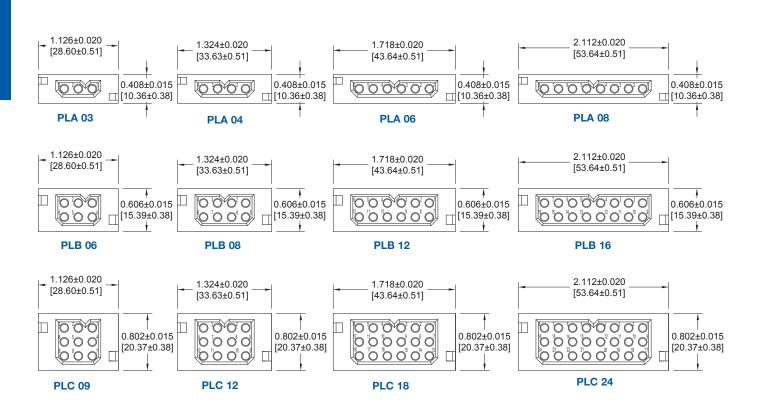
Power Connection Systems

FEMALE INSULATOR DIMENSIONS FOR PANEL MOUNT CONNECTORS WITH SIZE 16 REMOVABLE CONTACTS CODE 1 OR CODE 8

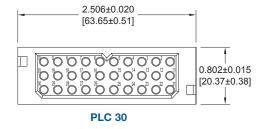
CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY



NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 26. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.



For information regarding panel cutouts, see page 63.



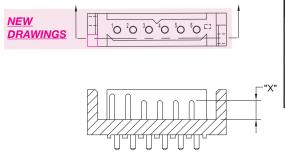
For information regarding size 16 removable contacts, see Removable Contact section, pages 47-53.

SEQUENTIAL MATING SYSTEM

*REMOVABLE CONTACTS FOR CABLE CONNECTORS MUST BE ORDERED SEPARATELY

FOR CONTACT SELECTION, SEE SIZE 16 CONTACTS ON PAGE 49

EXAMPLE 1

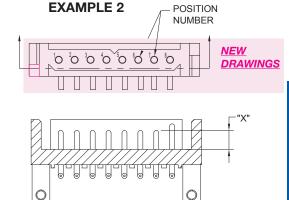


Typical Part Number:

PLA06M300A1-E1B2B

CONTACT LENGTH
0.370 [9.40]
0.330 [8.38]
0.310 [7.87]
0.290 [7.37]
0.250 [6.35]

MATING CONNECTOR TYPE	CONTACT OPTIONS
Board to Board	B, D, E
Board to Cable*	A, C, E
Cable to Cable*	A, D



Typical Part Number:

PLA08M4B0C1-D8B

SEQUENTIAL MATING SYSTEM CRIMP REMOVABLE CONTACT PART NUMBERS

WIRE SIZE AWG/[mm²]	LENGTH CODE "A"	LENGTH CODE "C"	LENGTH CODE "D"	LENGTH CODE "E"
<u>12 - 14</u> [4.0 - 2.5]	MC112N-133.3	MC112N-133.2	MC112N-133.1	MC112N-133.0
<u>16 - 18 - 20</u> [1.5 - 1.0 - 0.5]	MC116N-133.3	MC116N-133.2	MC116N-133.1	MC116N-133.0

For information regarding size 16 removable contacts, see Removable Contact section, pages 47-53.

SELECTION GUIDE FOR ORDERING DIFFERENT CONTACT LENGTHS STEP 9 OF ORDERING INFORMATION

SELECT CONNECTOR USING ORDERING INFORMATION ON PAGE 26 THEN CHOOSE STEPS BELOW FOR SEQUENTIAL MATING SYSTEM CONTACTS

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	Ε	1	В	2	В	3	D	4	D
STEP 1 Specify code for most frequently used contact mating length. This length is used for all contacts not specified in steps 2 through 9.									STEP 9 Length of contact specified in step 8 (Choose from length code chart). STEP 8
STEP 2 Position number for first special length contact.		•					,	STEF	
STEP 3 Length of contact specified in step 3 (Choose from length code chart)	2.		•				STEF	from	oth of contact specified in step 6 (Choose length code chart).
STEP 4 Position number for second special length contact.					Position number for third special length contact STEP 5 Length of contact specified in step 4 (Choose from length code chart).				



PCS SERIES CONNECTOR ORDERING INFORMATION

Power Connection **S**ystems

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	PLB	06	F	3	0	0	A1	/AA	_
EXAMPLE STEP 1 - BASIC SERIES PLA - 1 Row PLAH - 1 Row High conductivit PLB - 2 Row PLBH - 2 Row High conductivit PLC - 3 Row PLCH - 3 Row High conductivit STEP 2 - CONNECTOR 1 Row - 03, 04, 06, 08 2 Row - 06, 08, 12, 16, *20 3 Row - 09, 12, 18, 24, 30 STEP 3 - CONNECTOR M - Male F - Female STEP 4 - CONTACT TER *10 - Order contacts separate connection systems 5, *11 - Removable contact, parts system 8. Order contact 2 - Solder cup, 18 AWG [1] for connection systems 6 3 - Solder, Straight Printed extension for connection 4 - Solder, Right Angle (90) tail extens	MINATIO GENDER MINATIO M	DN TYPE le connect 9, see paged connect elely, see paged connect lely, see paged connect and syste Board Mou ms 1, 2 ar Board Mou ms 2, ar Board Mou ms 3 and s Board Mou ms 3 and s Board Mou ms 3 and s Board Mou ms 4 and Board Board Mou ms 3 and s Board Mou ms 4 and Board Boa	ors for ges 47-53. for for conages 47-53. for for conages 47-53. for for continuous for for the following for for continuous for for continuous for for contages 47-53.	nection connector, tail tail d 6. 46 [3.71] 77 [9.58] and 5. Board in step 5. Board in step 5. nection g side of		STEF 0 5	STEP 7 0 - Crir A1 - Go A2 - Go [5.0] constant C1 - 0.00 term C2 - 0.00 0.00 end D1 - 0.00 term D2 - 0.00 end	/AA - F NOTE: I is not re Example - CONT. BOAR mp Contact Id flash ove Id flash ov	STEP 9 - SPECIAL OPTIONS Sequential Mating Systems refer to page 25. CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS B - ENVIRONMENTAL COMPLIANCE OPTIONS B - ENVIRONMENTAL SALES FOR SPECIAL OPTIONS B - ENVIRONMENTAL SALES B - ENVIRONMENTAL SALES B - ENVIRONMENTAL SALES FOR SPECIAL OPTIONS B - ENVIRONMENTAL SALES FOR SPECIAL OPTIONS B - ENVIRONMENTAL SALES FOR SPECIAL OPTIONS B - ENVIRONMENTAL SALES FOR SPECIAL S
wire sizes. 92 - Straight printed board r 0.093 inch [2.36] thick b 93 - Straight printed board r 0.125 inch [3.18] thick b	oard. nount, pres	_	-	-		81 - 82 - 83 - 11 - 12 -	Panel Mo Panel Mo Panel Mo Blind Ma Blind Ma	ount, fixed ount, fixed ount, fixed ating Syste ating Syste	d for 0.040 [1.02] thick panel. d for 0.060 [1.52] thick panel. d for 0.090 [2.29] thick panel. em for 0.040 [1.02] thick panel. em for 0.060 [1.52] thick panel.
STED 5 MOUNTING ST	VIE					13 -	Blind Ma	ating Syste	em for 0.090 [2.29] thick panel.

STEP 5 - MOUNTING STYLE

- None,
- BN
- **B**3
- Metal Right Angle (90°) Mounting Bracket.
 Metal Right Angle (90°) Mounting Bracket with Push-on Fastener.
 Plastic Right Angle (90°) Mounting Bracket with Cross Bar.
 Plastic Right Angle (90°) Mounting Bracket with Cross Bar and B3N Push-on Fastener.
- Push-On Fastener For Straight Printed Board Mount Connectors Self-tapping steel screws 2-28 x 0.250±0.030 [6.35±0.76] length for 0.093 [2.36] thick board. *3ST2 -
- Self-tapping steel screws 2-28 x 0.312±0.030 [7.92±0.76] length for 0.125 [3.18] thick board. *3ST3 -
- Self-tapping steel screws 2-28 x 0.375 \pm 0.030 [9.53 \pm 0.76] length for 0.175 [4.45] thick board. 3ST4 -Self-tapping stainless steel screws 2-28 x 0.250 \pm 0.030 [6.35 \pm 0.76] SS2 -
- length for 0.093 [2.36] thick board. *3SS3 -
- Self-tapping stainless steel screws 2-28 x 0.312±0.030 [7.92±0.76] length for 0.125 [3.18] thick board.
- Self-tapping stainless steel screws 2-28 x 0.375±0.030 [9.53±0.76] SS4 length for 0.175 [4.45] thick board.

- Blind Mating System for 0.120 [3.05] thick panel.

NOTE: Once you have made a connector selection, contact Technical Sales if you would like to receive a drawing in DXF, PDF format or a 3-D IGES, STEP, or SOLIDWORKS file.





2-D Drawing

3-D Model

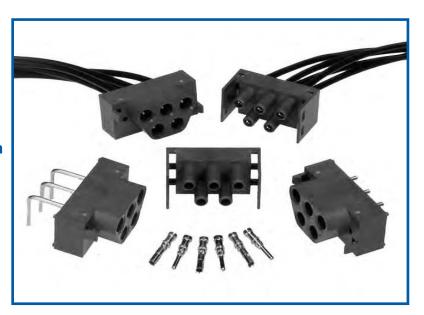
- *1 For high conductivity removable contact connectors, order PLA, PLB, or PLC connectors (in Step 1) and *C112N(2)S contacts found on pages 49-51.
- *2 PLB20 variant available with code 2, 3, 32, 4, 42, 92, and 93 only in Step 4.
- *3 Mounting screws are available with code 1, 2, 3, 32, 8, 92 and 93. To order mounting screws separately, see page 59 for part numbers.



Safety Shrouded Connector to Prevent Unsafe Exposure to High Energy Circuits

- * Size 12 Power Contacts
- * Large Surface Area Mating System
 - * Discriminating Locking System
 - * Contact Current Rating to **40 Amperes**

*Board - Cable / Cable - Cable



TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass-filled polyester, UL 94V-0.

Contact technical sales for availability of high temperature insulator material.

Contacts: Precision machined copper alloy with gold flash over nickel, or 0.000030 inch

[0.76µ] gold over nickel, or 0.000050 [1.27µ] gold over nickel. Solder coated

terminations optional.

Push-on Fastener: Spring tempered copper alloy, tin plate.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 40 amperes continuous,

derated per IEC 60512-3, test 5b. Higher currents available with high conductivity contacts, contact

Technical Sales

Initial Contact Resistance: 0.001 ohms max. per IEC 60512-2,

Insulation Resistance: 5 G ohms per IEC 60512-2, test 3a. Voltage Proof: 3,000 minimum V r.m.s. per IEC

60512-2, test 4a, method A.

0.220 [5.60] minimum

600 minimum V. r.m.s.

Creepage Distance: Working Voltage: Hot Pluggable [50

Clearance and

couplings per UL 1977

250 VAC at 20 amperes paragraph 15]: Working Temperature: -55°C to +125°C

Contact technical sales for availability of high temperature insulator material.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Rear insertion/ front release. Female

contact features "Closed Entry" design for highest reliability. 0.094 [2.39] diam-

eter male contact.

Removable Contact Retention in Insulator:

Fixed Contacts:

15 lbs. [67N] per IEC 60512-8, test 15a. Printed board terminations, both straight and 90°. Female contact features "Closed Entry" design for highest reliability. 0.094 [2.39] diameter

male contact.

15 lbs. [67N], minimum.

Fixed Contact

Retention in Insulator: Resistance to Soldering

Iron Heat:

500°F [260°C] for 10 seconds duration per IEC 60512-6, test 12e, 25 watt

soldering iron.

Contact Terminations: Crimp removable contacts for wire size

12 AWG [4.0 mm²]. Straight and right angle (90°)solder printed board mount,

0.090 [2.29] tail diameter.

Connection Systems: Cable to cable, cable to printed board

and cable to panel mount.

Locking System: Insulators provide locking between

cable to cable, cable to printed board and cable to panel mount applications.

Polarization: Provided in insulator design. Mounting to P.C. Board:

Rapid installation push-on

fasteners. **Mechanical Operations:** 500 operations

> DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

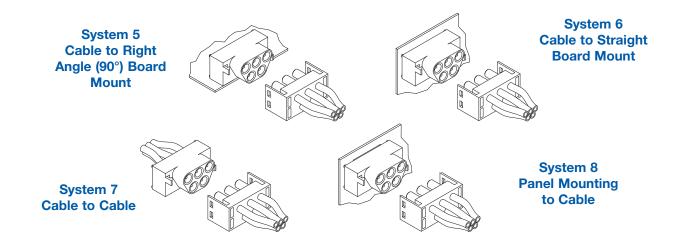
SAFETY SHROUD



CONNECTION SYSTEMS AND CABLE CONNECTOR

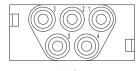
Power Connection Systems

CONNECTION SYSTEMS

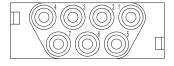


CONNECTOR VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE CONNECTOR





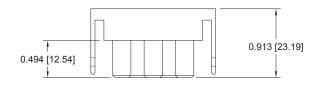


PLS7W7

FEMALE CABLE CONNECTOR FOR CABLE CONNECTORS WITH SIZE 12 REMOVABLE CONTACTS CODE 0

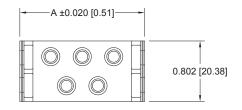
CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

PART NUMBER	A
PLS5W5F0000	<u>1.655</u> [42.04]
PLS7W7F0000	2.072 [52.64]



Typical part number: PLS5W5F00000



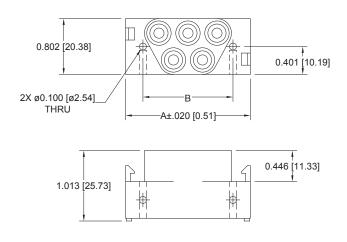


For information regarding size 12 removable contacts, see Removable Contact section, pages 47-53.



MALE PANEL MOUNT CONNECTOR FOR PANEL MOUNT CONNECTORS WITH SIZE 12 REMOVABLE CONTACTS CODE 1

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY





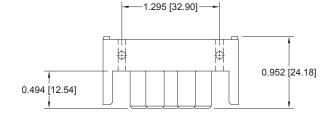
Typical part number: PLS5W5M10000

PART NUMBER	Α	В
PLS5W5M10000	<u>1.795</u> [45.60]	<u>1.295</u> [32.90]
PLS7W7M10000	<u>2.213</u> [56.20]	1.713 [43.50]

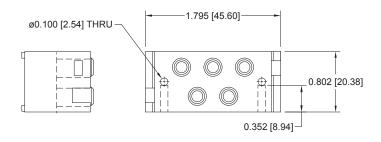
FEMALE PANEL MOUNT CONNECTOR FOR PANEL MOUNT CONNECTORS WITH SIZE 12 REMOVABLE CONTACTS CODE 1

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

Typical part number: PLS5W5F10000



*CONTACT TECHNICAL SALES FOR AVAILABILITY OF 7W7 VARIANT.



For information regarding size 12 removable contacts, see Removable Contact section, pages 47-53.

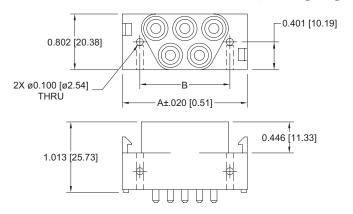
SAFETY SHROUD

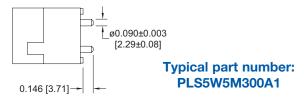


STRAIGHT SOLDER AND RIGHT ANGLE (90°) SOLDER PRINTED BOARD CONNECTOR

Power Connection Systems

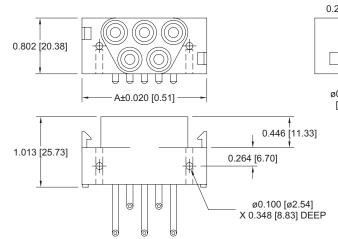
MALE STRAIGHT PRINTED BOARD MOUNT CONNECTOR CODE 3, 0.146 [3.71] CONTACT EXTENSION

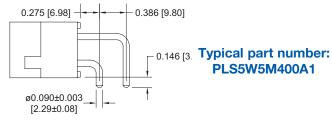




PART NUMBER	Α	В
PLS5W5M300A1	<u>1.795</u> [45.60]	<u>1.295</u> [32.90]
PLS7W7M300A1	<u>2.213</u> [56.20]	1.713 [43.50]

MALE RIGHT ANGLE (90°) PRINTED BOARD MOUNT CONNECTOR CODE 4, 0.146 [3.71] CONTACT EXTENSION

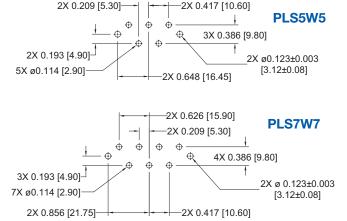




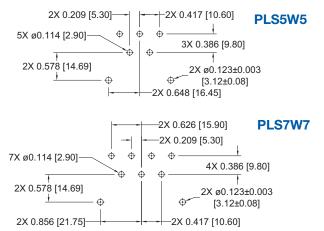
PART NUMBER	Α	В
PLS5W5M400A1	<u>1.795</u> [45.60]	<u>1.295</u> [32.90]
PLS7W7M400A1	<u>2.213</u> [56.20]	1.713 [43.50]

PRINTED BOARD CONTACT HOLE PATTERNS

STRAIGHT SOLDER



RIGHT ANGLE (90°)



SAFETY SHROUD CONNECTOR ORDERING INFORMATION

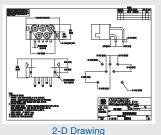


ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	PLS	5W5	M	4	0	0	A1	/AA	—
EXAMPLE STEP 1 - BASIC SERIOR PLS - PLS Series PLSH - High conductive contacts STEP 2 - CONNECTO 5W5 - Five size 12 contacts 12 contacts STEP 3 - CONNECTO M - Male F - Female STEP 4 - CONTACT T 0 - Order contacts septemate connection systems Female connectors 1 - Order contacts septemate connection For 7W7 female value.	ES Vity R VARIA tacts contacts R GEND ERMINA arately for sonly. ** arately for system 7 iant consistency.	TION TY or cable cound 8, see or Panel M conditions of the county of the	PE onnector e pages Mount co ges 47-5; ical sales	rs for 47-53.		STEP 9 - SPECIAL OPTIONS CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS STEP 8 - ENVIRONMENTAL COMPLIANCE OPTIONS /AA - RoHS Compliant NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: PLS5W5M400A1 STEP 7 - CONTACT PLATING FOR PRINTED BOARD CONNECTORS 0 - Crimp Contacts ordered separately, see pages 47-53. A1 - Gold flash over nickel on mating end and			
 3 - Solder, Straight Prin [3.71] tail extension Male connectors or 4 - Solder, Right Angle 0.146 [3.71] tail extended by Male connectors or STEP 5 - MOUNTING 0 - None. N - Push-on Fastener Board Mount Con 	for connuly. *** (90°) Printension for hily. *** i STYLE	ection sy nted Boa r connect	stem 6. rd Mount	t with			termination end. A2 - Gold flash over nickel on mating end and 0.00020 inch [5.00μ] tin-lead solder coat on termination end. C1 - 0.000030 inch [0.76μ] gold over nickel on mating end and termination end. C2 - 0.000030 inch [0.76μ] gold over nickel on mating end and 0.00020 inch [5.00μ] tin-lead solder coated termination end. D1 - 0.000050 inch [1.27μ] gold over nickel on mating end and termination end. D2 - 0.000050 inch [1.27μ] gold over nickel on mating end and 0.00020 inch [5.00μ] tin-lead solder coated termination end.		

NOTE: Once you have made a connector selection, contact Technical Sales if you would like to receive a drawing in DXF, PDF format or a 3-D IGES, STEP, or SOLIDWORKS file.





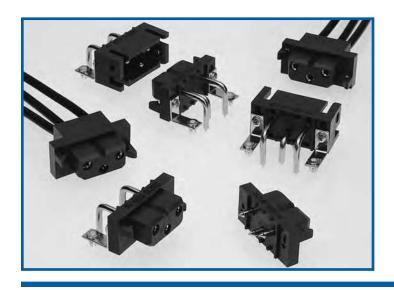
STEP 6 - CABLE ADAPTER

- 0 None
- 5 Top Opening Hood, see accessories section page 60.
- ** Consult technical sales for availability of male version of contact type 0.
- *** Consult technical sales for availability of female version of contact type 3 and 4.



POWER CONNECTION SYSTEMS FOR A.C. / D.C. INPUT

Power Connection **S**ystems



A.C. / D.C. INPUT CONNECTOR

* Hot Plug Capability

*Screw Termination Contacts

* Size 12 Power Contacts

- * Large Surface Area Mating System
- * Contact Current Rating to 40 Amperes
 - * Sequential Mating Options
 - * Discriminating Locking System

TECHNICAL CHARACTERISTICS

MATE	SIVI 6	FINIS	HEG.

Glass-filled polyester, UL 94V-0. Insulator:

> Contact technical sales for availability of high temperature insulator material.

Contacts: Precision machined copper alloy with gold flash over nickel, or 0.000030 inch [0.76µ]

gold over nickel, or 0.000050 [1.27µ] gold over nickel. Solder coated terminations

optional.

Glass-filled polyester, UL 94V-0. Hood:

Mounting Bracket: Brass, tin plate.

Push-on Fastener: Spring tempered copper alloy, tin plate.

Mounting Screw: Steel, zinc plate, or stainless steel

passivated.

ELECTRICAL CHARACTERISTICS:

CONTACT CURRENT RATING:

Standard Contact Material: 40 amperes. See page 33 for details.

High Conductivity

Contact Material: 55 amperes. See page 33 for details.

INITIAL CONTACT RESISTANCE:

Standard Contact Material: 0.001 ohms max. per IEC 60512-2,

test 2b.

High Conductivity

Contact Material: 0.00037 ohms max. per IEC 60512-2,

5 G ohms per IEC 60512-2, test 3a. **Insulation Resistance: Voltage Proof:** 3,750 V r.m.s. per IEC 60512-2, test 4a,

method A.

Clearance and

Creepage Distance: 0.125 [3.18] minimum Working Voltage: 1,250 V. r.m.s.

Hot Pluggable [50 couplings per UL 1977

paragraph 15]: **Working Temperature:**

Contact technical sales -55°C to +125°C

Contact technical sales for availability of high temperature insulator material.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Rear insertion/ front release. Female

contact features "Closed Entry" design for highest reliability, 0.094 [2.39]

Removable Contact

Retention in Insulator: **Fixed Contacts:**

20 lbs. [89N] per IEC 60512-8, test 15a. Printed board terminations, both straight and right angle (90°). Female

> contact features "Closed Entry" design for highest reliability. 0.094 [2.39] diam-

eter male contact.

Fixed Contact

Retention in Insulator: Resistance to Soldering

Iron Heat:

10 lbs. [44N], minimum.

260°C [500°F] for 10 seconds duration per IEC 60512-6, test 12e, 25 watt

soldering iron.

Contact Terminations: Crimp removable contacts and solder

cup removable contacts for wire size 12 AWG [4.0 mm²]. Straight and right angle (90°) solder printed board mount, 0.090 [2.29] tail diameter. Compliant

termination press-in.

Connection Systems: Cable to cable, cable to printed board, cable to panel mount, and printed board

to printed board.

Sequential Mating Systems:

Mechanical Operations:

Polarization:

Male contacts can provide two mating

Locking System: Insulators provide locking between

cable to cable, cable to printed board, and cable to panel mount applications.

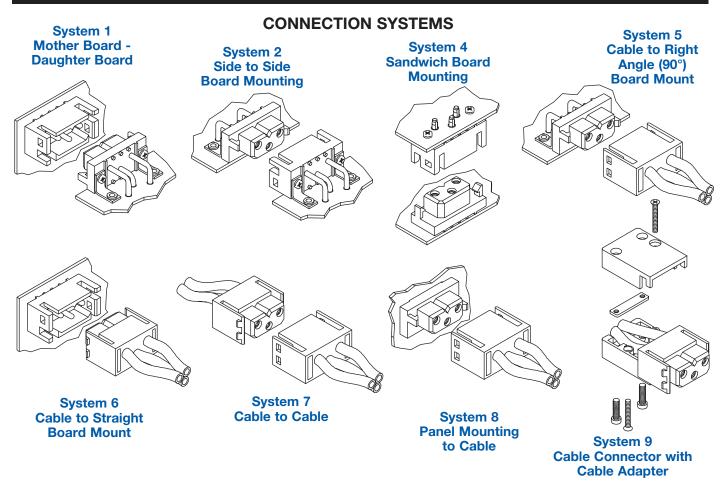
Provided in insulator design.

Mounting to P.C. Board: Rapid installation push-on fasteners.

500 operations

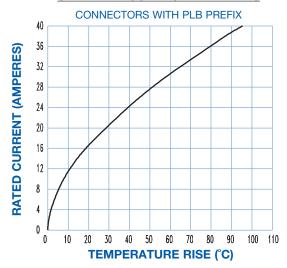
CONNECTION SYSTEM AND TEMPERATURE RISE CURVE





TEMPERATURE RISE CURVE

STANDARD CONTACT MATERIALS

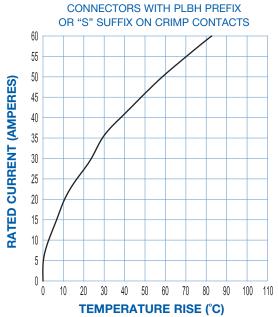


Test conducted per IEC Publication 60512-3, Test 5a.
All power contacts under load.

Standard Density: Curve developed using PLB3W3M4BN0A1 and PLB3W3F300A1 mated connector terminated to 12 AWG wire.

<u>High Conductivity</u>: Curve developed using PLBH3W3M9300A1 and PLBH3W3F9300A1 mated connector terminated to 12 AWG wire

HIGH CONDUCTIVITY CONTACT MATERIALS



CABLE AND PANEL MOUNT CONNECTOR

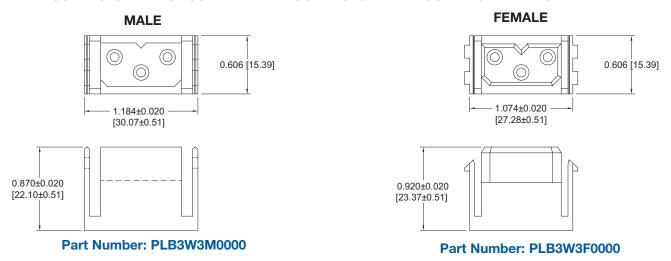
Power Connection Systems

CONNECTOR VARIANT FACE VIEW OF MALE CONNECTOR



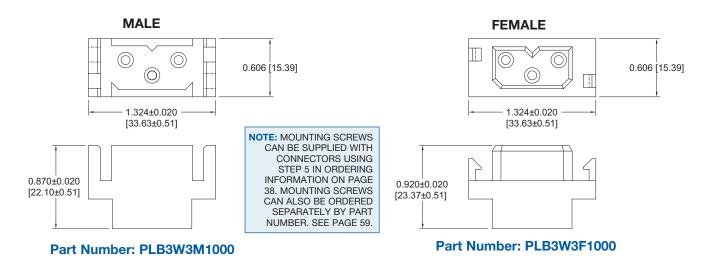
CABLE CONNECTOR FOR USE WITH SIZE 12 REMOVABLE CONTACTS CODE 0

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY



PANEL MOUNT CONNECTOR FOR USE WITH SIZE 12 REMOVABLE CONTACTS CODE 1

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

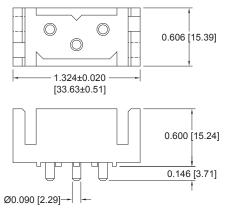


For information regarding size 12 removable contacts, see Removable Contact section, pages 47-53.



STRAIGHT PRINTED BOARD MOUNT CONNECTOR CODE 3, 0.146 [3.71] CONTACT EXTENSION

NOTE: MOUNTING
SCREWS CAN BE
SUPPLIED WITH
CONNECTORS
USING STEP 5
IN ORDERING
INFORMATION
ON PAGE 38.
MOUNTING
SCREWS
CAN ALSO
BE ORDERED
SEPARATELY BY
PART NUMBER.
SEE PAGE 59.

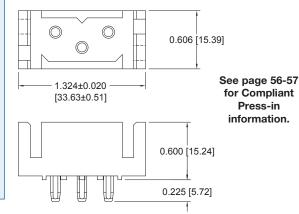


Part Number: PLB3W3M300A1

Part Number: PLB3W3F300A1

COMPLIANT PRESS-IN CONNECTOR CODE 93, 0.225 [5.72] CONTACT EXTENSION

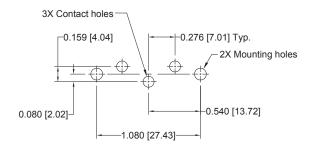
NOTE: Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board. Mounting screws can be supplied with connectors using step 5 in ordering information on page 38. Mounting screws can also be ordered separately by part number. See page 59.



Part Number: PLB3W3F93ST30A1

CONTACT HOLE PATTERN

FOR STRAIGHT PRINTED BOARD MOUNT AND COMPLIANT PRESS-IN CONNECTORS



Part Number: PLB3W3M93ST30A1

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø 0.114 [2.90] finished holes in printed board for straight solder printed board mount contacts.

Suggest Ø 0.123 ± 0.003 [3.15 ±0.08] holes in printed board for mounting connector with push-on fasteners or 0.100 [2.54] for mounting connector with #2 screws.

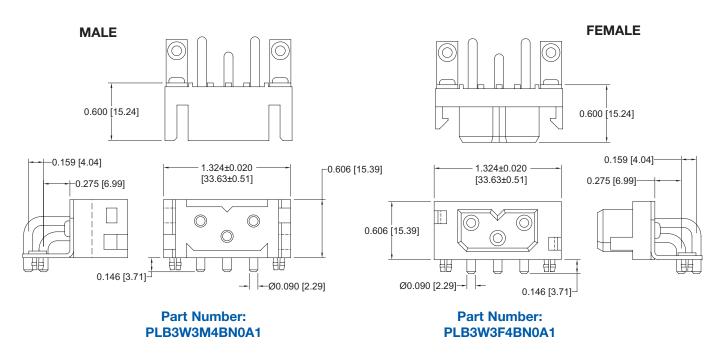
NOTE: See page 57 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.



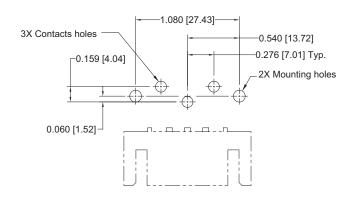
RIGHT ANGLE (90°) SOLDER PRINTED BOARD CONNECTOR AND CONTACT HOLE PATTERN

Power Connection Systems

RIGHT ANGLE (90°) PRINTED BOARD MOUNT CONNECTOR CODE 4, 0.146 [3.71] CONTACT EXTENSION



CONTACT HOLE PATTERN RIGHT ANGLE (90°) ANGLE PRINTED BOARD MOUNT CONNECTORS



SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest \varnothing 0.114 [2.90] finished holes in printed board for right angle (90°) solder printed board mount contacts.

Suggest \emptyset 0.123 \pm 0.003 [3.15 \pm 0.08] holes in printed board for mounting connector with push-on fasteners.

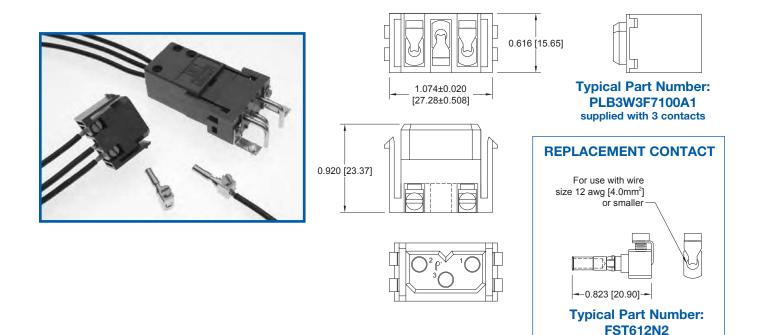
SCREW TERMINATION AND SEQUENTIAL MATING CONTACTS



SCREW TERMINATION CONNECTOR

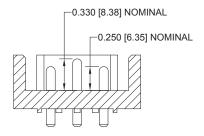
SCREW TERMINATIONS ALLOWS FOR CONVENIENT FIELD INSTALLATION WHEN REQUIRED CODE 71

CONTACTS MAY BE SUPPLIED WITH CONNECTOR OR ORDERED SEPARATELY



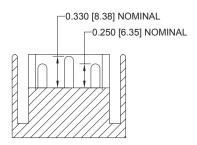
SEQUENTIAL MATING CONTACTS

BOARD MOUNT CONNECTORS



Modification number -338.0 (see step 8 of the ordering information) allows for board mount connector to have position 3 loaded with a 0.330 [8.38] nominal mating length contact and positions 1 and 2 loaded with 0.250 [6.35] nominal mating length contacts. Contact technical sales for additional sequencing options.

CRIMP AND PANEL MOUNT CONNECTORS



MC610NS and MC612N crimp contacts and MC610NS and MC612N solder cup contacts to be used for 0.330 [8.38] nominal mating length. MC610NS-228.2 and MC612N-228.2 crimp contacts and MS610NS-228.2 and MS612N-228.2 solder cup contacts to be used for 0.250 [6.35] nominal mating length.



POWER INPUT CONNECTOR ORDERING INFORMATION

Power Connection **S**ystems

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	PLB	3W3	F	3	0	0	A1	/AA	
PLB - PLB Series PLBH - High conduct contacts. STEP 2 - CONNECTO 3W3 - Three size 12 of	PLBH - High conductivity								STEP 9 - SPECIAL OPTIONS -338.0 - Sequential mating. Position 3 first mate, last break. Available on 3, 4, and 93 only. CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS
M - Male F - Female	OR GEND	ER						QTED (
							0 - C pa A1 - C to A2 - C 0 to C C1 - 0. m C2 - 0. m	/AA - F NOTE: legislat be used 7 - CONT BOAF rimp Corages 47-5 Gold flash erminatio Gold flash erminatio code 71 co 000030 i ating end ad solder vailable w	n over nickel on mating end and on end. In over nickel on mating end and noch [5.00µ] tin-lead solder coat on on end. Not available with contact
 ST2 - Self-tapping steel screws 2-28 x 0.250±0.030 [6.35±0.76] length for 0.093 [2.36] thick board. ST3 - Self-tapping steel screws 2-28 x 0.312±0.030 [7.92±0.76] length for 0.125 [3.18] thick board. ST4 - Self-tapping steel screws 2-28 x 0.375±0.030 [9.53±0.76] length for 0.175 [4.45] thick board. SS2 - Self-tapping stainless steel screws 2-28 x 0.250±0.030 [6.35±0.76] length for 0.093 [2.36] thick board. SS3 - Self-tapping stainless steel screws 2-28 x 0.312±0.030 [7.92±0.76] length for 0.125 [3.18] thick board. 						STEP	m D2 - 0. m le av	nating end 000050 in nating end ad solder vailable w	d and termination end. nch [1.27µ] gold over nickel on d and 0.00020 inch [5.00µ] tintrocated termination end. Not with contact code 71 or 93.

STEP 6 - CABLE ADAPTER AND BLIND MATE SYSTEM

- 0 None.
- 5 Top Opening Hood.
- 11 Blind Mating System for 0.040 [1.02] thick panel.
- 12 Blind Mating System for 0.060 [1.52] thick panel.
- 13 Blind Mating System for 0.090 [2.29] thick panel.
- 14 Blind Mating System for 0.120 [3.05] thick panel.

[9.53±0.76] length for 0.175 [4.45] thick board.

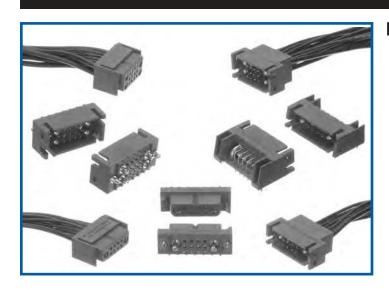
Self-tapping stainless steel screws 2-28 x 0.375±0.030

^{*1} Mounting screws are available with code 1, 3 and 93. To order mounting screws separately, see page 59 for part numbers.

Power Connection Systems

PCS MIXED DENSITY POWER CONNECTORS





PCS SERIES POWER CONNECTORS WITH MIXED DENSITY CONTACTS

- * Mixed density contacts
- Power contacts have a resistance as low as 0.0003 ohms and carry up to 85 amperes per UL 1977
 - Available with two power contacts and eight signal; or four power contacts and twelve signal
- Solder, press-in or cable terminations
- Integral locking on cable connectors

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass-filled polyester, UL 94V-0.

Contact technical sales for availability of high temperature insulator material.

Contacts: Precision machined copper alloy with gold flash over nickel, or 0.000030

gold flash over nickel, or 0.000030 inch [0.76µ] gold over nickel, or 0.000050 [1.27µ] gold over nickel. Solder coated terminations optional.

Mounting Clip: Beryllium copper with tin plate.

Hood: Glass filled polyester, UL 94V-0.

Mounting Bracket: Brass with tin plate.

Push-on Fastener: Spring tempered copper alloy, tin

plate

ELECTRICAL CHARACTERISTICS:

SIGNAL CONTACTS

Contact Current Rating: 7.5 amperes nominal.

Initial Contact Resistance: 0.007 ohms max. per IEC 60512-2,

test 2b

POWER CONTACTS

Contact Current Rating: See temperature rise curves on page

40. For additional information see

pages 47-53.

Initial Contact Resistance: Standard Conductivity:

andard Conductivity: 0.0005 ohms max. per IEC 60512-2,

test 2b.

High Conductivity: 0.0003 ohms max. per IEC 60512-2,

test 2b.

SHIELDED CONTACTS

Initial Contact Resistance: 0.008 ohms maximum.

Nominal Impedance: 50 ohms.

Insertion Loss: -0.46 dB at 1 GHz
-1.5 dB at 2 GHz

VSWR: 1.15 average at 1 GHz
1.56 average at 2 GHz

Above values measured using frequency domain techniques.

Proof Voltage: 1000 V r.m.s.

ELECTRICAL CHARACTERISTICS, CONTINUED:

HIGH VOLTAGE CONTACTS

Flash over Voltage: 3600 V r.m.s. Proof Voltage: 2700 V r.m.s.

Initial Contact Resistance: 0.008 ohms maximum.

CONNECTOR

Insulation Resistance: 5 G ohms per IEC 60512-2, test 3a,

method A.

Working Voltage: 600 V rms.

Voltage Proof: 2200 V rms per IEC 60512-2, test 4a,

method C.

Clearance and
Creepage Distance:
Working Temperature:
0.080 inch [2.03 mm]
-55°C to +125°C.

MECHANICAL CHARACTERISTICS:

SIGNAL CONTACTS

Removable: Insert contact to rear face of insulator.

release from front face of insulator. Size 20 contacts, 0.040 inch [1.02 mm] diameter male contacts, closed entry

design female contacts.

Fixed: Straight solder, right angle (90°) solder and straight compliant press-in printed

and straight compliant press-in printed board mount terminations. Size 20 contacts, 0.040 inch [1.02 mm] diameter male contacts, open entry design female

contacts.

... continued on next page

CUL Recognized File # E49351

TECHNICAL INFORMATION AND **TEMPERATURE RISE CURVES**

Power Connection **S**ystems

continued from previous page . . .

MECHANICAL CHARACTERISTICS, CONTINUED:

POWER CONTACTS:

Removable: Insert contact to rear face of insulator, release from front face of

insulator. Size 8 contacts, 0.142 inch [3.61 mm] diameter male contacts, closed entry design female contacts.

Straight solder, right angle (90°) **Printed Board Mount:** solder and straight compliant press-

in printed board mount terminations. Size 8 contacts, 0.142 inch [3.61 mm] male contacts, closed entry

design female contacts.

SHIELDED CONTACTS:

Removable: Insert contact to rear face of

> insulator, release from front face of insulator. Size 8 contacts. See page 53 table of cable sizes for contact

termination dimensions.

HIGH VOLTAGE CONTACTS:

Removable: Insert contact to rear face of

insulator, release from front face of

insulator.

Size 8 contacts. Straight and right angle (90°) terminations. 0.041 inch [1.04 mm] minimum hole diameter.

Contact Terminations: 20-24 AWG [0.5-0.25mm²] removable

crimp signal, 0.028 inch [0.71 mm] diameter straight and right angle (90°) solder printed board mount.

8-16 AWG [10.0-1.0mm²] removable solder and crimp power, 0.125 inch [3.18 mm] diameter straight and right angle (90°) solder printed board mount, power, shielded, high voltage cable, and straight compliant press-in

terminations.

Contact Retention

in Insulator: Fixed signal - 9 lbs. [40 N]. Removable Signal - 10 lbs. [44N].

Power, shielded and high voltage -

22 lbs. [98 N].

Resistance to Solder Iron Heat: 500° F [260° C] for 10 second

duration per IEC 60512-6, test 12e,

25 watt soldering iron.

Connector provides cable to cable, **Connection Systems:**

cable to printed board, cable to panel mount and printed board to

printed board application.

Locking System: Insulators provide locking between

cable to cable, cable to printed board and cable to panel mount

applications.

Polarizations: Provided in insulator design.

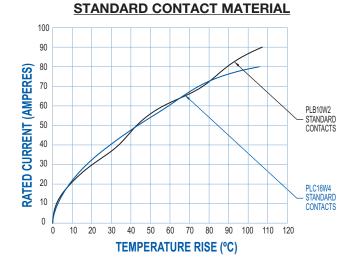
Mounting to Printed Board: Rapid installation push-on fasteners.

Self-tapping screws for compliant

connectors.

Mechanical Operations: 500 operations per IEC 60512-5.

TEMPERATURE RISE CURVES



Test conducted in accordance with UL1977. All power contacts under load.

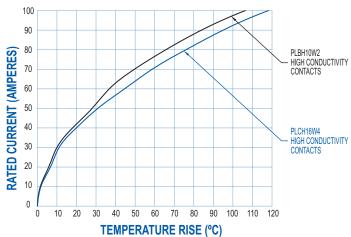
10W2: Curve developed using PLB10W2F9300A1 and PLB10W2M0000 connectors with MC4008D contacts

terminated to 8 AWG wire

16W4: Curve developed using PLC16W4F9300A1 and PLC16W4M0000 connectors with MC4008D contacts

terminated to 8 AWG wire.

HIGH CONDUCTIVITY CONTACT MATERIAL



Test conducted in accordance with UL1977. All power contacts under load.

Curve developed using PLBH10W2F9300A1 and 10W2: PLB10W2M0000 connectors with MC4008DS contacts

terminated to 8 AWG wire

16W4: Curve developed using PLCH16W4F9300A1 and PLC16W4M0000 connectors with MC4008DS contacts

terminated to 8 AWG wire.

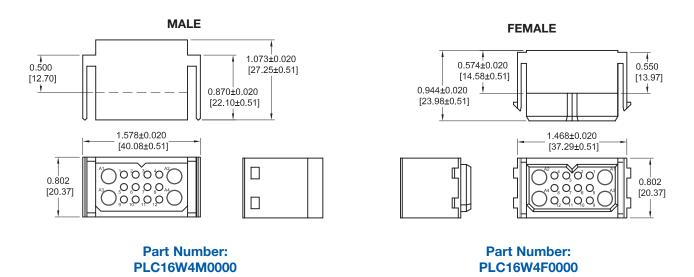
PCS MIXED DENSITY

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

MALE FEMALE 1.073±0.020 0.500 0.574±0.020 0.550 [27.25±0.51] [14.58±0.51] [13.97] [12.70] 1 0.870±0.020 0.944±0.020 [23.98±0.51] [22.10±0.51] 1.578±0.020 1.468±0.020 [40.08±0.51] [37.29±0.51] 0,0,0,0 ୯୯୯୯ 0.606 0.606 [15.39] 0000 0.000 [15.39] **Part Number: Part Number:** PLB10W2M0000 PLB10W2F0000

PLC16W4 CABLE CONNECTOR FOR USE WITH SIZE 20 AND SIZE 8 REMOVABLE CONTACTS CODE 0

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY



For information regarding size 20 and size 8 removable contacts, see Removable Contact section, pages 47-53.

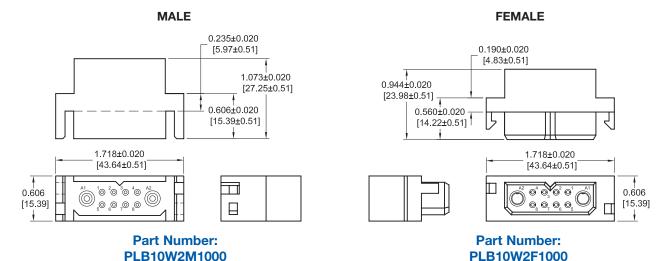


PANEL MOUNT CONNECTOR

Power Connection Systems

PLB10W2 PANEL MOUNT CONNECTOR FOR USE WITH SIZE 20 AND SIZE 8 REMOVABLE CONTACTS CODE 1

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY



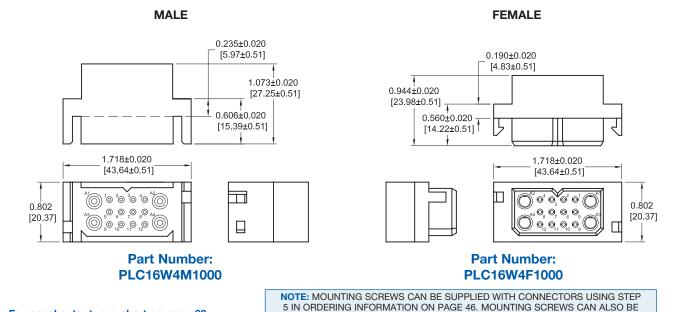
For panel cutout, see chart on page 63.

NOTE: MOUNTING SCREWS CAN BE SUPPLIED WITH CONNECTORS USING STEP 5 IN ORDERING INFORMATION ON PAGE 46. MOUNTING SCREWS CAN ALSO BE ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.

ORDERED SEPARATELY BY PART NUMBER. SEE PAGE 59.

PLC16W4 PANEL MOUNT CONNECTOR FOR USE WITH SIZE 20 AND SIZE 8 REMOVABLE CONTACTS CODE 1

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY



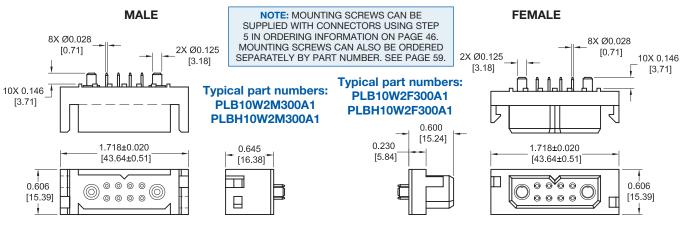
For information regarding size 20 and size 8 removable contacts, see Removable Contact section, pages 47-53.

For panel cutout, see chart on page 63

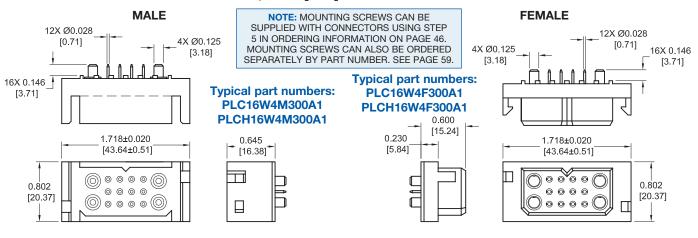
PCS MIXED DENSITY

STRAIGHT PRINTED BOARD CONNECTOR AND CONTACT HOLE PATTERN

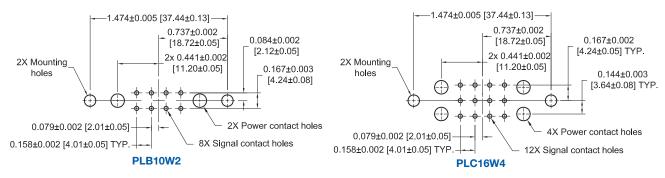
PLB(H)<u>10W2</u> STRAIGHT PRINTED BOARD MOUNT CONNECTOR CODE 3, 0.146 [3.71] CONTACT EXTENSION



PLC(H)16W4 STRAIGHT PRINTED BOARD MOUNT CONNECTOR CODE 3, 0.146 [3.71] CONTACT EXTENSION



STRAIGHT SOLDER AND COMPLIANT CONTACT HOLE PATTERN



SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.145 [3.68] Ø hole in printed board for power contact termination positions.

Suggest 0.045 [1.14] Ø hole for signal solder contact termination positions.

Suggest 0.100 [2.54] Ø hole in printed board when mounting connectors with #2 thread forming screws.

Suggest 0.123±0.003 [3.12±0.08] Ø hole in printed board for mounting connector with push-on fasteners.

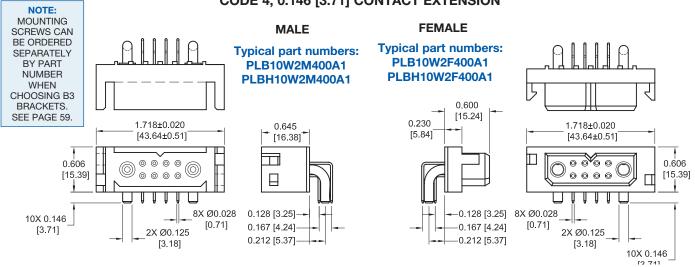
NOTE: See page 57 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.



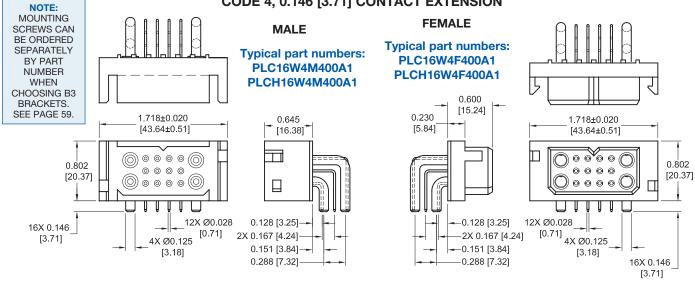
RIGHT ANGLE (90°) PRINTED BOARD CONNECTOR AND CONTACT HOLE PATTERN

Power Connection Systems

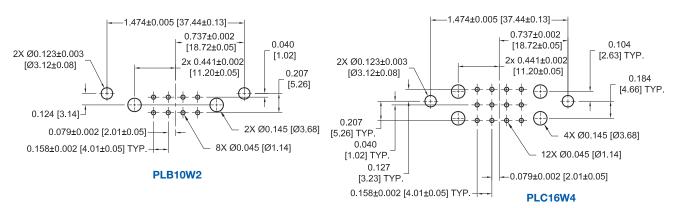
PLB(H)10W2 RIGHT ANGLE (90°) PRINTED BOARD MOUNT CONNECTOR CODE 4, 0.146 [3.71] CONTACT EXTENSION



PLC(H)16W4 RIGHT ANGLE (90°) PRINTED BOARD MOUNT CONNECTOR CODE 4, 0.146 [3.71] CONTACT EXTENSION



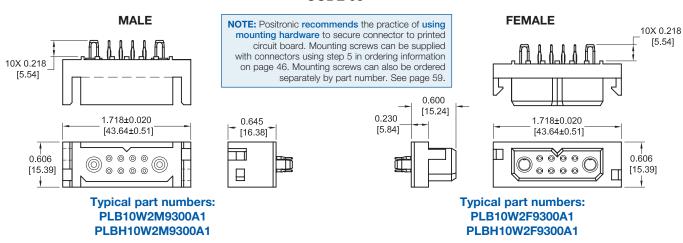
RIGHT ANGLE (90°) PRINTED BOARD MOUNT CONTACT HOLE PATTERN



COMPLIANT PRESS-IN CONNECTOR

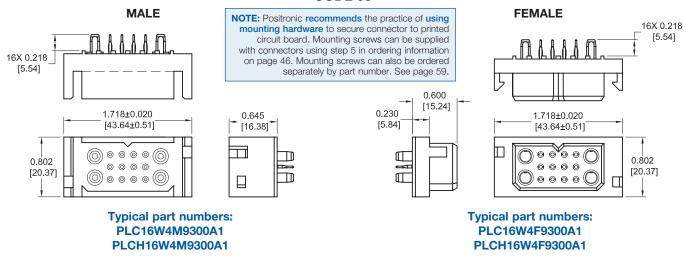


PLB(H)10W2 COMPLIANT PRESS-IN CONNECTOR CODE 93



NOTE: Connectors are designed to be mounted to the printed circuit board with screws, see page 59 for mounting screw information. See page 43 for contact hole pattern.

PLC(H)16W4 COMPLIANT PRESS-IN CONNECTOR CODE 93



NOTE: Connectors are designed to be mounted to the printed circuit board with screws, see page 59 for mounting screw information. See page 43 for contact hole pattern.



PCS MIXED DENSITY CONNECTOR ORDERING INFORMATION

Power Connection **S**ystems

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	PLC	16W4	F	4	B3N	0	A1	/AA	- -
STEP 1 - BASIC SERIES PLB - 2 Row PLBH - 2 Row High conductivi PLC - 3 Row PLCH - 3 Row High conductivi	ty contacts								STEP 9 - SPECIAL OPTIONS CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS
STEP 2 - CONNECTOR VARIANTS 2 Row - 10W2 3 Row - 16W4						STEP	8 - ENVIRONMENTAL COMPLIANCE OPTIONS		
STEP 3 - CONNECTOR GENDER M - Male NOTE: If compliance to environment					If compliance to environmental legislatio equired, this step will not be used.				
STEP 4 - CONTACT TERMINATION TYPE 0 - Removable contact, cable connector. Order contacts separately, see pages 47-53. *1 - Removable contact, panel mounted connector. Order contacts separately, see pages 47-53. *13 - Solder, Straight Printed Board Mount with 0.146 [3.71] tail extension. 4 - Solder, Right Angle (90°) Printed Board Mount with 0.146 [3.71] tail extension. *193 - Straight Printed Board Mount, Press-in, length 0.218 [5.54] for 0.125 inch [3.18] thick board.							0 - Cr A1 - G te A2 - G in	7 - CONT BOAF imp Conta old flash or ermination old flash och [5.00µ]	ract plating for printed acts ordered separately, see page 47-53. over nickel on mating end and end. over nickel on mating end and 0.00020 over nickel on termination end le with code 93 in step 4.
STEP 5 - MOUNTING STYLE 0 - None. B - Metal Right Angle (90°) Mounting Bracket. BN - Metal Right Angle (90°) Mounting Bracket with Push-on Fastener. B3 - Plastic Right Angle (90°) Mounting Bracket with Cross Bar. B3N - Plastic Right Angle (90°) Mounting Bracket with Cross Bar and Push-on Fastener. N - Push-On Fastener For Straight Printed Board Mount Connectors ST2 - Self-tapping steel screws 2-28 x 0.250+0.030 [6.35+0.76] length for 0.093 [2.36] thick board. ST3 - Self-tapping steel screws 2-28 x 0.312+0.030 [7.92+0.76] length for 0.125 [3.18] thick board.							 C1 - 0.000030 inch [0.76μ] gold over nickel on mating end and termination end. C2 - 0.000030 inch [0.76μ] gold over nickel on mating end and 0.00020 inch [5.00μ] tin-lead solder coated termination end. Not available with code 93 in step 4 D1 - 0.000050 inch [1.27μ] gold over nickel on mating end and termination end. D2 - 0.000050 inch [1.27μ] gold over nickel on mating end and 0.00020 inch [5.00μ] tin-lead solder coated termination end. Not available with code 93 in step 4 		
ST4 - Self-tapping steel s	crews 2-2	8 x 0.375+	-0.030 [9.	53+0.76] le	ength for	STEI	P 6 - HO	ODS ANI	D PANEL MOUNT

STEP 6 - HOODS AND PANEL MOUNT

0	-	None.
U		I VOITO

51 - Top Opening Hood.

- Panel Mount, quick release.

81 - Panel Mount, fixed for 0.040 [1.02] thick panel.

82 - Panel Mount, fixed for 0.060 [1.52] thick panel.

83 - Panel Mount, fixed for 0.090 [2.29] thick panel.

11 - Blind Mating System for 0.040 [1.02] thick panel.

12 - Blind Mating System for 0.060 [1.52] thick panel.

13 - Blind Mating System for 0.090 [2.29] thick panel.

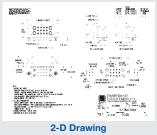
14 - Blind Mating System for 0.120 [3.05] thick panel..

NOTE: Once you have made a connector selection, contact Technical Sales if you would like to receive a drawing in DXF, PDF format or a 3-D IGES, STEP, or SOLIDWORKS file.

Self-tapping stainless steel screws 2-28 x 0.250+0.030 [6.35+0.76]

Self-tapping stainless steel screws 2-28 x 0.312+0.030 [7.92+0.76]

Self-tapping stainless steel screws 2-28 x 0.375+0.030 [9.53+0.76]



0.175 [4.45] thick board.

length for 0.093 [2.36] thick board.

length for 0.125 [3.18] thick board.

length for 0.175 [4.45] thick board.



SS2

SS3

SS4

^{*1} Mounting screws are available with code 1, 3 and 93. To order mounting screws separately, see page 59 for part numbers.

Power Connection **S**ystems

REMOVABLE CONTACT TECHNICAL INFORMATION



REMOVABLE CONTACT TECHNICAL CHARACTERISTICS

SIZE 20 REMOVABLE CONTACT

MATERIALS AND FINISHES:

STANDARD: Precision machined copper alloy with gold flash

over nickel. Other finishes are available, see optional plating finishes for -14 and -15.

MECHANICAL CHARACTERISTICS:

STANDARD: Insert contact to rear face of insulator, release

from front face of insulator. Size 20 contacts, 0.040 inch [1.02 mm] diameter male contacts, closed entry design female contacts.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal.

Initial Contact Resistance: 0.007 ohms max. per IEC 60512-2, test 2b.

SIZE 16 REMOVABLE CONTACT

MATERIALS AND FINISHES:

STANDARD: Precision machined copper alloy with gold flash

over nickel. Other finishes are available, see optional plating finishes for -14 and -15.

Tellurium copper, gold flash over nickel. Other HIGH CONDUCTIVITY:

finishes are available, see optional plating finishes

for -14 and -15.

SHIELDED:

Dielectric Material: PCTFF

Phosphor bronze, 0.000030 inch [0.76µ] gold over Inner Contacts:

nickel. Other finishes are available, see optional

plating finishes for -15. **Outer Contacts:**

Brass and beryllium copper, gold flash over

nickel. Other finishes are available, see optional

plating finishes for -14.

MECHANICAL CHARACTERISTICS:

STANDARD AND

HIGH CONDUCTIVITY: Insert contact to rear face of insulator, release

from front face of insulator. Size 16 contacts, 0.0625 inch [1.588 mm] diameter male contacts. Female contact closed entry for highest reliability.

SHIELDED:

Contact Retention

In Insulator: 18 lbs. [80N].

Removable Contacts: Rear insertion, front removable.

Insertion Force

8 oz. [2.2N] per contact maximum Per Contact:

Durability: 100 cycles minimum. Vibration: 20g from 10 Hz to 500 Hz

Shock: 30g - 11 ms

ELECTRICAL CHARACTERISTICS:

STANDARD:

Contact Current Rating: See page 9 for detail information.

Initial Contact Resistance: 0.0016 ohms max. per IEC 60512-2, test 2b.

HIGH CONDUCTIVITY:

See page 9 for detail information. **Contact Current Rating:**

Initial Contact Resistance: 0.0007 ohms max. per IEC 60512-2, test 2b. SHIELDED:

Dielectric Strength

At Sea Level: 600 V rms

Initial Contact Resistance: 0.012 ohms maximum

Insulation Resistance: 5 G ohms

Insertion Loss: 0.2 dB at 500 MHz for 126N contacts 1.0 dB at 500 MHz for 226N contacts

VSWR: 170 at 0 to 200 MHz

2.25 at 200 to 500 MHz

SIZE 12 REMOVABLE CONTACT

MATERIALS AND FINISHES:

STANDARD: Precision machined copper alloy with gold flash

over nickel. Other finishes are available, see optional plating finishes for -14 and -15.

HIGH CONDUCTIVITY: Tellurium copper, gold flash over nickel. Other

finishes are available, see optional plating finishes

for -14 and -15.

MECHANICAL CHARACTERISTICS:

STANDARD AND

HIGH CONDUCTIVITY: Insert contact to rear face of insulator, release

from front face of insulator. Size 12 contacts. 0.094 inch [2.39 mm] diameter male contacts. Female contact closed entry for highest reliability.

ELECTRICAL CHARACTERISTICS:

STANDARD:

Contact Current Rating: 40 amperes continuous, derated per

IEC 60512-3, test 5b.

0.001 ohms max. per IEC 60512-2, test 2b. **Initial Contact Resistance:**

HIGH CONDUCTIVITY:

Contact Current Rating: See page 33 for detail information.

Initial Contact Resistance: 0.0007 ohms max. per IEC 60512-2, test 2b.

SIZE 8 REMOVABLE CONTACT

MATERIALS AND FINISHES:

Precision machined copper alloy with gold flash STANDARD:

over nickel. Other finishes are available, see optional plating finishes for -14 and -15.

HIGH CONDUCTIVITY: Tellurium copper, gold flash over nickel. Other

finishes are available, see optional plating finishes

for -14 and -15.

HIGH VOLTAGE:

Insulator Material: PTFE teflon

Male contacts, brass. Female contacts, phos-Contacts:

phor bronze. Male and female contacts, 0.000030 inch [0.76µ] gold over nickel. Other finishes are available, see optional plating finishes for -15.

SHIELDED:

Dielectric Material: PTFE teflon

Inner Contacts:

Phosphor bronze, 0.000030 inch [0.76µ] gold over

nickel. Other finishes are available, see optional

plating finishes for -15.

Outer Contacts: Brass and beryllium copper, gold flash over

nickel. Other finishes are available, see optional plating finishes for -14.

... continued on next page



REMOVABLE CONTACT TECHNICAL INFORMATION AND REMOVABLE CRIMP SIGNAL CONTACT, SIZE 20

Power Connection Systems

REMOVABLE CONTACT TECHNICAL CHARACTERISTICS

continued from previous page . . .

MECHANICAL CHARACTERISTICS:

STANDARD AND

HIGH CONDUCTIVITY: Insert contact to rear face of insulator, release

from front face of insulator. Size 8 contacts, 0.142 inch [3.61 mm] diameter male contacts, closed entry design female contacts.

HIGH VOLTAGE: Insert contact to rear face of insulator, release from front face of insulator. Size 8 contacts.

Straight and right angle (90°) terminations. 0.041 inch [1.04 mm] minimum hole diameter.

Durability: 500 cycles minimum. **Vibration:** 20g from 10 Hz to 500 Hz.

Shock: 30g-11ms.

SHIELDED: Insert contact to rear face of insulator, release

from front face of insulator. Size 8 contacts. See page 53 table of cable sizes for contact

Termination dimensions.

ELECTRICAL CHARACTERISTICS:

STANDARD:

Contact Current Rating: See temperature rise curves on page 40. For additional information see page 51-52.

Initial Contact Resistance: 0.001 ohms max. per IEC 60512-2, test 2b.

HIGH CONDUCTIVITY:

Contact Current Rating: See temperature rise curves on page 40.

Initial Contact Resistance: 0.0003 ohms max. per IEC 60512-2, test 2b.

HIGH VOLTAGE:

Flash over Voltage: 3600 V r.m.s.
Proof Voltage: 2700 V r.m.s.
Initial Contact Resistance: 0.008 ohms maximum.

SHIELDED:

Initial Contact Resistance: 0.008 ohms maximum.

Nominal Impedance: 50 ohms. Insertion Loss: -0.46 dB at 1 GHz

-1.5 dB at 2 GHz

VSWR: 1.15 average at 1 GHz 1.56 average at 2 GHz

Above values measured using frequency domain techniques.

Proof Voltage: 1000 V r.m.s.

OPTIONAL PLATING FINISHES

-14 0.000030 [0.76 μ] gold over nickel by adding "-14" suffix

onto part number. Example: FC720N2-14.

-15 0.000050 inch [1.27μ] gold over nickel by adding "-15".

Example: FC720N2-15.

RoHS OPTIONS:

/AA Environmental Compliance Option: RoHS compliant

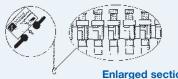
can be achieved by adding "/AA" suffix onto part number. Examples: FC720N2/AA or for optional plating finishes

use FC720N2/AA-14.

REELED CONTACTS:

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic pneumatic crimp tools, catalog part numbers 9550-0 and 9550-1; packaged in reels holding 1,000 contacts for use with the automatic pneumatic crimp tools, catalog part number 9555-0-2. The same type carrier is used for both male and female contacts.

All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC6020DR for a male contact and FC6026DR for a female contact.



Enlarged section of plastic contact carriers

Note: Connectors can be kitted with all applicable crimp/

solder contacts, contact Technical Sales for

connector part number.

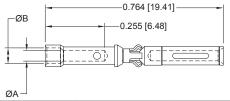
REMOVABLE CRIMP SIGNAL CONTACT

FOR USE WITH PCS MIXED DENSITY SERIES CONNECTORS

CONTACTS MUST BE ORDERED SEPARATELY

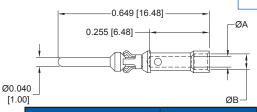
SIZE 20

FEMALE CONTACT



PART NUMBER	WIRE SIZE AWG/[mm²]	ØA	ØВ
FC720N2	<u>20 / 22 / 24</u>	<u>0.045</u>	<u>0.068</u>
	[0.5 / 0.3 / 0.25]	[1.14]	[1.73]

MALE CONTACT



PART NUMBER	WIRE SIZE AWG/[mm²]	ØA	ØB
MC720N3	20 / 22 / 24	<u>0.045</u>	<u>0.068</u>
	[0.5 / 0.3 / 0.25]	[1.14]	[1.73]



REMOVABLE CRIMP CONTACT

See page 9 for current ratings.

PART

NUMBERS

FC112N2

FC112N2S

FC114N2

FC116N2

FC120N2

FOR USE WITH PCS SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY **SIZE 16**

Note: Connectors can be kitted with all applicable crimp/ solder contacts, contact Technical Sales for connector part number.

FEMALE CONTACT

"CLOSED ENTRY" DESIGN

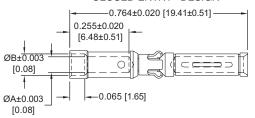
N/A

N/A

0.105 [2.67]

0.093 [2.36]

0.068 [1.73]



	WIRE SI	ØA	ØВ	par
] ØA	3±0.003 0.08] ±0.003 0.08]	0.764±0.0 55±0.020 48±0.51] 	20 [19.41±0.51]	

0.098 [2.49]

0.098 [2.49]

0.081 [2.06]

0.067 [1.70]

0.045 [1.14]

AWG/[mm²]

12 [4.0]

12 [4.0]

14-16 [2.5-1.5]

16-18 [1.5-1.0]

20-22-24

[0.5-0.3-0.25]

part number indicates high conductivity material.
Compatible with PL*H PCB mount connectors.

See ordering

O.A.L.±0.020[±0.51] 0.255±0.020 [6.48±0.51] ØB±0.003 [0.08]Ø0.0625 0.065 [1.65]-ØA±0.003 [1.588] [0.08]

MALE CONTACT

	NUMBERS	AWG/[mm²]	ØA	ØB	OAL
	MC112N	12 [4.0]	0.098 [2.49]	N/A	0.764 [19.41]
-	MC112NS	12 [4.0]	0.098 [2.49]	N/A	0.764 [19.41]
	*MC112N-133.0	12 [4.0]	0.098 [2.49]	N/A	0.684 [17.37]
	*MC112N133.1	12 [4.0]	0.098 [2.49]	N/A	0.724 [18.39]
	*MC112N-133.2	12 [4.0]	0.098 [2.49]	N/A	0.744 [18.90]
	*MC112N-133.3	12 [4.0]	0.098 [2.49]	N/A	0.804 [20.42]
	MC114N	14-16 [2.5-1.5]	0.081 [2.06]	0.105 [2.67]	0.764 [19.41]
	MC116N	16-18 [1.5-1.0]	0.067 [1.70]	0.093 [2.36]	0.764 [19.41]
	*MC116N-133.0	16-18 [1.5-1.0]	0.067 [1.70]	0.093 [2.36]	0.684 [17.37]
	*MC116N133.1	16-18 [1.5-1.0]	0.067 [1.70]	0.093 [2.36]	0.724 [18.39]
	*MC116N-133.2	16-18 [1.5-1.0]	0.067 [1.70]	0.093 [2.36]	0.744 [18.90]
	*MC116N-133.3	16-18 [1.5-1.0]	0.067 [1.70]	0.093 [2.36]	0.804 [20.42]
	MC120N	20-22-24	0.045 [1.14]	0.068 [1.73]	0.764 [19.41]

* indicates Sequential mate contacts, see page 25 for more information regarding Sequential Mating System.

See page 9 for current ratings.

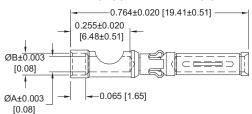
REMOVABLE SOLDER CUP CONTACT

FOR USE WITH PCS SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY **SIZE 16**

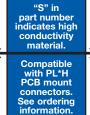
Note: Connectors can be kitted with all applicable crimp/ solder contacts, contact Technical Sales for connector part number.

FEMALE CONTACT

"CLOSED ENTRY" DESIGN



PART NUMBERS	WIRE SIZE AWG/[mm²]	ØA	ØВ
FS112N2	12 [4.0]	0.098 [2.49]	N/A
FS112N2S	12 [4.0]	0.098 [2.49]	N/A
FS114N2	14 [2.5]	0.081 [2.06]	0.105 [2.67]
FS116N2	16 [1.5]	0.067 [1.70]	0.093 [2.36]
FS120N2	20 [0.5]	0.045 [1.14]	0.068 [1.73]



-	-0./64±0.020 [19.41±0.51] ———
	0.255±0.020 [6.48±0.51]
 	ØB±0.003 [0.08]
_Ø0.0625 [1.588]	0.065 [1.65] — ØA±0.003 [0.08]

[0.5-0.3-0.25]

MALE CONTACT

	PART NUMBERS	WIRE SIZE AWG/[mm²]	ØA	ØВ
	MS112N	12 [4.0]	0.098 [2.49]	N/A
	MS112NS	12 [4.0]	0.098 [2.49]	N/A
ĺ	MS114N	14 [2.5]	0.081 [2.06]	0.105 [2.67]
	MS116N	16 [1.5]	0.067 [1.70]	0.093 [2.36]
	MS120N	20 [0.5]	0.045 [1.14]	0.068 [1.73]



REMOVABLE SHIELDED AND **CRIMP CONTACT SIZE 16 AND SIZE 12**

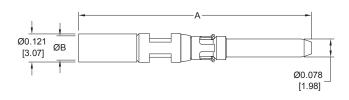
Power Connection **S**ystems

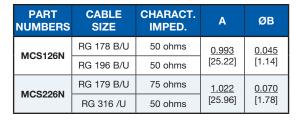
REMOVABLE CRIMP SHIELDED CONTACT

FOR USE WITH PCS SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY **SIZE 16**

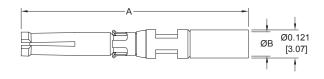
Note: Connectors can be kitted with all applicable crimp/ solder contacts, con-tact Technical Sales for connector part number.

MALE CONTACT





FEMALE CONTACT



PART NUMBERS	CABLE SIZE	CHARACT. IMPED.	A	ØВ
FCS126N2	RG 178 B/U	50 ohms	<u>0.967</u>	0.045
FOSTZONZ	RG 196 B/U	50 ohms	[24.56]	[1.14]
FCS226N2	RG 179 B/U	75 ohms	1.022	0.070
FUSZZONZ	RG 316 /U	50 ohms	[25.96]	[1.78]

REMOVABLE CRIMP CONTACT

FOR USE WITH SHROUDED AND POWER INPUT CONNECTORS

CONTACTS MUST BE ORDERED SEPARATELY **SIZE 12**

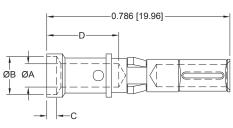
See page 33 for current ratings.

with all applicable crimp/ solder contacts, con-tact Technical Sales for connector part number.

C-

Note: Connectors can be kitted

FEMALE CONTACT



OAL ØA ØB Ø0.094

MALE CONTACT

						_	"S" in part number								
PART NUMBER	WIRE SIZE AWG/[mm²]	ØA	ØВ	С	D		indicates high conductivity material.		PART NUMBER	WIRE SIZE AWG/[mm²]	ØA	ØВ	С	D	OAL
FC610N2S	10	0.147		N/A	0.254				MC610NS	10	0.147	N/A	N/A	0.254	0.795
1 00101120	[6.0]	[3.73]	14/71	14// ([6.45] Compatible with		moorono	[6.0]	[3.73]	14//	14//	[6.45]	[20.19]		
FC612N2	12	0.100	0.165	0.042	0.309	l	PLBH3W3	_	MC610NS-228.2		0.147	N/A	N/A	0.254	0.714
FC012N2	[4.0]	[2.54]	[4.19]	[1.06]	[7.85]		or PLSH PCB mount		WICO 10143-220.2	[6.0]	[3.73]	IN/A	IV/A	[6.45]	[18.14]
							connecto rs.		MC612N	12	0.100	0.165	0.042	0.309	0.795
	See ordering		IVICOTZIN	[4.0]	[2.54]	[4.19]	[1.06]	[7.85]	[20.19]						
							information.		MCC10NL000.0	12	0.100	0.165	0.042	0.309	0.714
						MC612N-228.2	[4.0]	[2.54]	[4.19]	[1.06]	[7.85]	[18.14]			

[2.39]

REMOVABLE SOLDER CUP AND CRIMP CONTACT SIZE 12 AND SIZE 8



REMOVABLE SOLDER CUP CONTACT

See page 33 for current ratings.

FOR USE WITH SHROUDED AND POWER INPUT CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY

SIZE 12

Note: Connectors can be kitted with all applicable crimp/ solder contacts, contact Technical Sales for connector part number.

FEMALE CONTACT MALE CONTACT -0.786 [19.96] OAL ØB ØA ØA ØB Ø0 094 [2.39] "S" in part number **PART** PART NUMBER WIRE SIZE AWG/[mm²] **WIRE SIZE** D indicates high ØA ØB C ØA ØB C D OAL **NUMBER** AWG/[mm²] conductivity material. 0.147 0.254 0.147 0.254 0.795 N/A FS610N2S N/A **MS610NS** N/A N/A [6.0][6.45][6.0][3.73][6.45][20.19] [3.73]Compatible with PLBH3W3 or PLSH PCB mount 12 0.100 0.165 0.042 0.309 10 0.147 0.254 0.714 FS612N2 MS610NS-228.2 N/A N/A [4.0] [2.54] [4.19] [1.06] [7.85] [6.0][3.73][6.45] [18,14] 0.100 0.165 0.042 0.309 0.795 connecto rs. MS612N [2.54] [4.19] [1.06] [20.19] [4.0] [7.85]See ordering information. 12 0.100 0.165 0.042 0.309 0.714 MS612N-228.2

REMOVABLE CRIMP CONTACT

FOR USE WITH PCS MIXED DENSITY SERIES CONNECTORS
CONTACTS MUST BE ORDERED SEPARATELY
SIZE 8

Note: Connectors can be kitted with all applicable crimp/ solder contacts, contact Technical Sales for connector part number.

[7.85]

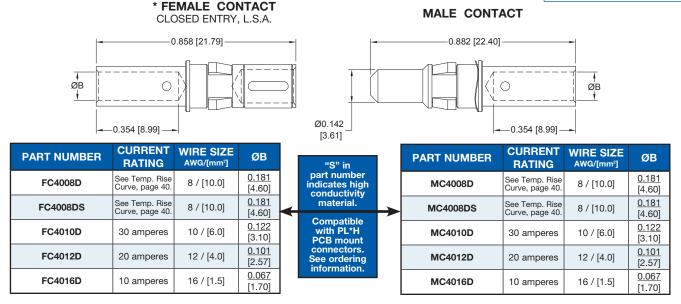
[18.14]

[4.19]

[1.06]

[2.54]

[4.0]



*NOTE: Female contacts feature Large Surface Area (L.S.A.) closed entry contact design which provides maximum mating surfaces between male and female contact and reduced contact resistance during operation.



REMOVABLE HIGH VOLTAGE CONTACT SIZE 8

Power Connection **S**ystems

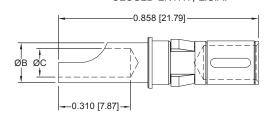
REMOVABLE SOLDER CUP CONTACT

FOR USE WITH PCS MIXED DENSITY SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY

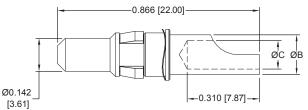
SIZE 8

Note: Connectors can be kitted with all applicable crimp/ solder contacts, con-tact Technical Sales for connector part number.

* FEMALE CONTACT CLOSED ENTRY, L.S.A.



MALE CONTACT



PART NUMBER	CURRENT RATING	WIRE SIZE AWG/[mm²]	ØВ	ØС
FS4008D	40 amperes	8 / [10.0]	<u>0.219</u> [5.56]	<u>0.182</u> [4.62]
FS4012D	20 amperes	12 / [4.0]	<u>0.143</u> [3.63]	<u>0.112</u> [2.84]
FS4016D	10 amperes	16 / [1.5]	<u>0.100</u> [2.54]	<u>0.069</u> [1.75]

PART NUMBER	CURRENT RATING	WIRE SIZE AWG/[mm²]	ØВ	ØС
MS4008D	40 amperes	8 / [10.0]	<u>0.219</u> [5.56]	<u>0.188</u> [4.78]
MS4012D	20 amperes	12 / [4.0]	0.143 [3.63]	<u>0.112</u> [2.84]
MS4016D	10 amperes	16 / [1.5]	<u>0.100</u> [2.54]	<u>0.069</u> [1.75]

*NOTE: Female contacts feature Large Surface Area (L.S.A.) closed entry contact design which provides maximum mating surfaces between male and female contact and reduced contact resistance during operation.

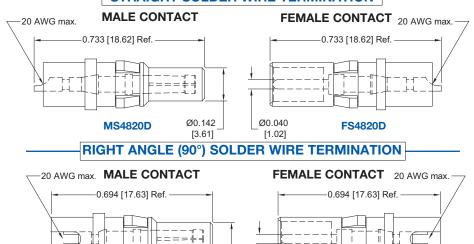
MS4920D

REMOVABLE HIGH VOLTAGE CONTACT

FOR USE WITH PCS MIXED DENSITY SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY SIZE 8

Note: Connectors can be kitted with all applicable crimp/ solder contacts, con-tact Technical Sales for connector part number.

STRAIGHT SOLDER WIRE TERMINATION



For information regarding CRIMP TOOLS & CRIMPING TOOL TECHNIQUES, see page 54.

Ø0.040

[1.02]

FS4920D

Ø0.142

[3.61]



REMOVABLE HIGH VOLTAGE CONTACT SIZE 8

Power Connection **S**ystems

REMOVABLE SOLDER CUP CONTACT

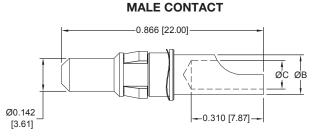
FOR USE WITH PCS MIXED DENSITY SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY

SIZE 8

Note: Connectors can be kitted with all applicable crimp/ solder contacts, con-tact Technical Sales for connector part number.

CLOSED ENTRY, L.S.A. 0.858 [21.79] ØB ØC

* FEMALE CONTACT



PART NUMBER	CURRENT RATING	WINE OILE OR						
FS4008D	40 amperes	8 / [10.0]	<u>0.219</u> [5.56]	<u>0.182</u> [4.62]				
FS4012D	20 amperes	12 / [4.0]	<u>0.143</u> [3.63]	<u>0.112</u> [2.84]				
FS4016D	10 amperes	16 / [1.5]	<u>0.100</u> [2.54]	<u>0.069</u> [1.75]				

-0.310 [7.87]**→**

PART NUMBER	CURRENT RATING	WIRE SIZE AWG/[mm²]	ØВ	øс		
MS4008D	40 amperes	8 / [10.0]	<u>0.219</u> [5.56]	<u>0.188</u> [4.78]		
MS4012D	20 amperes	12 / [4.0]	<u>0.143</u> [3.63]	<u>0.112</u> [2.84]		
MS4016D	10 amperes	16 / [1.5]	<u>0.100</u> [2.54]	<u>0.069</u> [1.75]		

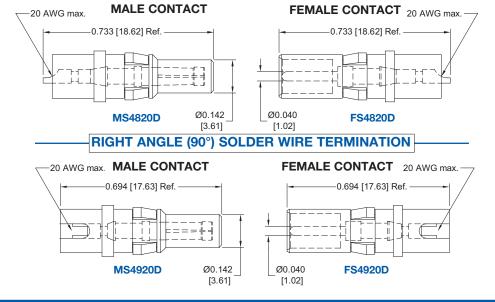
*NOTE: Female contacts feature Large Surface Area (L.S.A.) closed entry contact design which provides maximum mating surfaces between male and female contact and reduced contact resistance during operation.

REMOVABLE HIGH VOLTAGE CONTACT

FOR USE WITH PCS MIXED DENSITY SERIES CONNECTORS CONTACTS MUST BE ORDERED SEPARATELY SIZE 8

Note: Connectors can be kitted with all applicable crimp/ solder contacts, con-tact Technical Sales for connector part number.

STRAIGHT SOLDER WIRE TERMINATION



CONTACT APPLICATION TOOLS CROSS REFERENCE LIST

APPLICATION TOOLS SECTION

PLA (H), PLB (H), PLC (H) and PLS (H) connectors are offered with

removable crimp contacts. Positronic recognizes the

importance of supplying application tooling to

support our customers' use of our products.

Information on application tooling is

available on our web site at

http://www.connectpositronic.com/design-tools/tooling

There you will find downloadable PDF cross reference

charts for removable and compliant press-in contacts. These charts

will supply part numbers for insertion, removal and crimping tools,

along with information regarding use of tools and techniques.



Connectors Designed To Customer Specifications

Positronic's PLA(H), PLB(H), PLC(H) and PLS(H) series connectors can be modified to customers specifications.

Examples: select loading of contacts for cost savings or to gain creepage and clearance distances; longer printed circuit board terminations; customer specified hardware.

Positronic can develop and tool new connector designs with reasonable price and delivery.

Contact Technical Sales with your particular requirements.



CONTACT APPLICATION TOOLS CROSS REFERENCE LIST

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

		P	c s	, I	M I	ΧE	D	D	ΕI	N S	ΙT	Υ		SA	۱FT	ΈΥ	SI	IR(οu	D 8	kΡ	ΟV	VEF	R 11	ΙPΙ	JT			Р	С	S		S	E		R	ı	E	s			
⊣ 0			SIZ	Έ	8	СО	ΝT	ΑΟ	OT S	S		SIZE	20			SI	ΖE	1	2	СО	ΝT	AC	OT S	S						S	ΙZΕ	1	6	СО	ΝT	Α(CT	S				
downloa	*CC4104D	*CC4103D	*CC4102D	*CC4101D	*S410*D	*C410*D	*S4*20D	*S40**D	*C401*D	*C4008DS	*C4008D	MC720N3	FC720N2	FST612N2	MS612N-228.2	MS612N	MS610NS-228.2	MS610NS	MC612N-228.2	MC612N	MC610NS-228.2	MC610NS	FS612N2	FS610N2S	FC612N2	FC610N2S	MS120N	MS112NS	MS11*N	MCS*26N	MC120N	MC112NS	MC11*N-133.*	MC11*N	FS120N2	FS112N2S	FS11*N2	FCS*26N2	FC120N2	FC112N2S	FC11*N2	Positronic Contact P/N
id a PD	9504-15-0-0	9504-15-0-0	9504-13-0-0	9504-14-0-0		9504-0-0-0			9509-0-0-0	9504-19-0-0	9504-19-0-0										9509-6-0-0	9509-6-0-0				9509-6-0-0				9506-0-0-0		9509-3-0-0						9506-0-0-0		9509-3-0-0		Handle & Positioner P/N
) F file,	9504-1-0-0	9504-1-0-0	9504-1-0-0	9504-1-0-0		9504-1-0-0			9509-1-0-0	9504-1-0-0	9504-1-0-0	9507-0-0-0	9507-0-0-0						9501-0-0-0	9501-0-0-0	9509-6-1-0	9509-6-1-0			9501-0-0-0	9509-6-1-0				9506-1-0-0	9501-0-0-0	9509-4-0-0	9501-0-0-0	9501-0-0-0				9506-1-0-0	9501-0-0-0	9509-4-0-0	9501-0-0-0	Hand Crimp Tool P/N
visi	HX4	HX4	HX4	HX4		HX4			M310	HX4	HX4	AFM8	AFM8						AF8	AF8	GS223	GS223			AF8	GS223				НХ3	AF8	GS222	AF8	AF8				НХ3	AF8	GS222	AF8	Mfg. Cross
t our we	M22520/5-01	M22520/5-01	M22520/5-01	M22520/5-01		M22520/5-01						M22520/2-01	M22520/2-01						M22520/1-01	M22520/1-01					M22520/1-01						M22520/1-01		M22520/1-01	M22520/1-01					M22520/1-01		M22520/1-01	Mil Equiv
eb site	9504-15-1-0	9504-15-1-0	9504-13-1-0	9504-14-1-0		9504-2-0-0			9509-2-0-0	9504-19-1-0	9504-19-1-0	9502-27-0-0	9502-22-0-0						9502-19-0-0	9502-19-0-0	9509-6-2-0	9509-6-2-0			9502-19-0-0	9509-6-2-0				9506-2-0-0	9502-1-0-0	9509-5-0-0	9502-17-0-0	9502-1-0-0				9506-2-0-0	9502-1-0-0	0-0-2-6056	9502-1-0-0	Positioner
at h	Y877	Y877	Y937	Y878		Y322			TP-974	Y524	Y524	K1506	K1196						TP1199	TP1199	TP-1386	TP-1386			TP-1199	TP-1386				X530	TH4	TP-1366	TP1110	TH4				X530	TH4	TP-1366	TH4	Mfg. Cross
tttp://																															E0-1/02522W			M22520/1-03					W22520/1-03		M22520/1-03	Mil Equiv
www.conn	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9099-4-0-0	9099-4-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-3-0-0	9099-0-0-0	9099-0-0-0	0-0-0-6606	9099-0-0-0	9099-0-0-0	9099-0-0-0	0-0-0-6606	9099-0-0-0	9099-0-0-0	9099-0-0-0	9099-0-0-0	9099-0-0-0	9099-0-0-0	0-0-0-6606	9099-0-0-0	Insertion Tool
e c												ПР1076	ПР1076	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITP 1168	ITH 1094	Mfg. Cross														
tpositr																											M81969/18-01	Mil Equiv														
itronic.com/pd	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	4311-0-0-0	9081-2-0-0	9081-2-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	2711-0-0-0	9081-0-0-0	9081-0-0-0	9081-0-0-0	9081-0-0-0	0-0-0-1808	9081-0-0-0	0-0-0-1806	9081-0-0-0	9081-0-0-0	9081-0-0-0	9081-0-0-0	9081-0-0-0	9081-0-0-0	0-0-0-1808	9081-0-0-0	Removal Tool
om/pdf	P+	P+	P+	P+	P+	P+	P+	P+	P+	P+	P+	RNG2103	RNG2103	P+	P+	P+	P+	P+	P+	P+	P+	P+	P+	P+	P+	P+	RTG 2103	~	Mfg. Cross													
f_view/																											M81969/20-01	M81969/20-01	M81969/20-01	M81969/20-01	10-02/69618M	M81969/20-01	N81969/20-01	M81969/20-01	M81969/20-01	Mil Equiv						
178									9555-0-2-0	9555-0-2-0	9555-0-2-0	9550-1-0-0	9550-1-0-0						9550-0-0-0	9550-0-0-0	9550-0-0-0	9550-0-0-0			9555-0-2-0	9555-0-2-0					9550-0-0-0	9550-0-0-0	9550-0-0-0	9550-0-0-0					9550-0-0-0	9550-0-0-0	9550-0-0-0	Automatic Crimp Tool *See Note

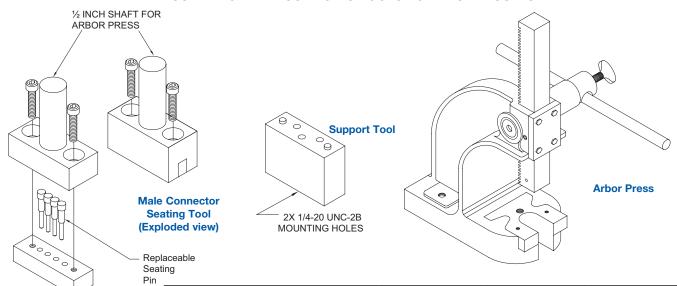


PRESS-IN USER INFORMATION AND CONNECTOR INSTALLATION TOOLING

Power Connection Systems

COMPLIANT PRESS-IN CONNECTOR INSTALLATION TOOLS

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS



Female Connector Seating Tool (Exploded view)

Positronic offers expert assistance in adapting application tooling to your manufacturing environment. Contact our application tooling specialist for assistance.

POSITRONIC RECOMMENDED TOOLS											
CONNECTOR VARIANT	CONNECTO TOOL ARBOR PR		CONNECTOR SEATI ARBOR PR	NG TOOL WITHOUT ESS SHAFT							
	MALE	FEMALE	MALE	FEMALE							
PLA03	9513-1-0-41	9513-13-0-41	9513-1-10-41	9513-13-10-41							
PLA04	9513-2-0-41	9513-14-0-41	9513-2-10-41	9513-14-10-41							
PLA06	9513-3-0-41	9513-15-0-41	9513-3-10-41	9513-15-10-41							
PLA08	9513-4-0-41	9513-16-0-41	9513-4-10-41	9513-16-10-41							
PLB06	9513-5-0-41	9513-17-0-41	9513-5-10-41	9513-17-10-41							
PLB08	9513-6-0-41	9513-18-0-41	9513-6-10-41	9513-18-10-41							
PLB10W2	9513-7-0-41	9513-30-0-41	9513-7-10-41	9513-30-10-41							
PLB12	9513-7-0-41	9513-19-0-41	9513-7-10-41	9513-19-10-41							
PLB16	9513-8-0-41	9513-20-0-41	9513-8-10-41	9513-20-10-41							
PLB20	9513-33-0-41	9513-34-0-41	9513-33-10-41	9513-34-10-41							
PLB3W3	9513-6-0-41	9513-18-1-41	9513-6-10-41	9513-18-11-41							
PLC09	9513-9-0-41	9513-21-0-41	9513-9-10-41	9513-21-10-41							
PLC12	9513-10-0-41	9513-22-0-41	9513-10-10-41	9513-22-10-41							
PLC16W4	9513-11-0-41	9513-31-0-41	9513-11-10-41	9513-31-10-41							
PLC18	9513-11-0-41	9513-23-0-41	9513-11-10-41	9513-23-10-41							
PLC24	9513-12-0-41	9513-24-0-41	9513-12-10-41	9513-24-10-41							
PLC30	9513-25-0-41	9513-26-0-41	9513-25-10-41	9513-26-10-41							
Arbor press for conne	ctor seating tools: 95	30-1-0-0 1 ton capacity	y 4 inch throat								
	PCS Mixed Density Se	ries Size 20	855-347-18-41								
Replacement pins for	PCS Series Size 16		855-347-2-41 (female)								
connector seating tool	PLB3W3 Series Size 12	2	855-347-11-41 (female)								
	PCS Mixed Density Se	ries Size 8	855-347-19-41								
Support tool for PLB3\	W3: 9513-401-6-41										

SUGGESTED PRINTED BOARD HOLE SIZES FOR COMPLIANT PRESS-IN CONNECTORS

Traditionally, tin-lead has been a popular plating for printed circuit boards (PCB) holes. However, many PCB hole platings must now be RoHS Compliant. Positronic is pleased to offer PCB HOLE SIZE FOR RoHS PCB plating as

shown	be	low.

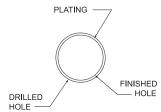
SHOWH BEIOW.													
OMEG	A & BI-SPF	RING COMPLIAN	T PRESS-IN CO	NTACT HOLE									
BOARD TYPE	CONTACT SIZE / TYPE	RECOMMENDED DRILL HOLE SIZE	RECOMMENDED PLATING	FINISHED HOLE SIZES									
	20 OMEGA	<u>Ø0.0453±0.0010</u> [Ø1.150±0.025]		<u>Ø0.0394+0.0035-0.0024</u> [Ø1.000+0.090-0.060]									
TIN-LEAD	16 BI-SPRING	<u>Ø0.069±0.001</u> [Ø1.750±0.025]	0.0006 [15µ] minimum solder	<u>Ø0.0630+0.0035-0.0024</u> [Ø1.600+0.090-0.060]									
SOLDER PCB	12 BI-SPRING	ø0.102±0.001 [ø2.59±0.025]	over 0.0010 [25µ] min. copper	<u>Ø0.096±0.002</u> [Ø2.44±0.05]									
	8 BI-SPRING	ø0.125±0.001 [ø3.180±0.025]		ø0.119±0.002 [ø3.02±0.05]									
	RoHS PCB PLATING OPTIONS												
	20 OMEGA	<u>Ø0.047±0.001</u> [Ø1.19±0.025]		<u>ø0.043±0.002</u> [ø1.09±0.05]									
COPPER	16 BI-SPRING	<u>Ø0.069±0.001</u> [Ø1.750±0.025]	0.0010 [25µ]	<u>Ø0.0630+0.0035-0.0024</u> [Ø1.600+0.090-0.060]									
PCB	12 BI-SPRING	<u>Ø0.102±0.001</u> [Ø2.59±0.025]	min. copper	<u>Ø0.096±0.002</u> [Ø2.44±0.05]									
	8 BI-SPRING	<u>Ø0.125±0.001</u> [ø3.180±0.025]		<u>Ø0.119±0.002</u> [Ø3.02±0.05]									
	20 OMEGA	<u>Ø0.047±0.001</u> [Ø1.19±0.025]		<u>Ø0.043±0.002</u> [Ø1.09±0.05]									
IMMERSION TIN	16 BI-SPRING	<u>Ø0.069±0.001</u> [Ø1.750±0.025]	0.000033±0.000006 [0.85±0.15µ] immersion tin	<u>Ø0.0630+0.0035-0.0024</u> [Ø1.600+0.090-0.060]									
PCB	12 BI-SPRING	<u>Ø0.102±0.001</u> [Ø2.59±0.025]	over 0.0010 [25µ] min. copper	<u>Ø0.096±0.002</u> [Ø2.44±0.05]									
	8 BI-SPRING	<u>Ø0.125±0.001</u> [Ø3.180±0.025]		<u>Ø0.119±0.002</u> [ø3.02±0.05]									
	20 OMEGA	<u>ø0.047±0.001</u> [ø1.19±0.025]		<u>Ø0.043±0.002</u> [Ø1.09±0.05]									
IMMERSION SILVER	16 BI-SPRING	<u>Ø0.069±0.001</u> [Ø1.750±0.025]	0.000013±0.000007 [0.34±0.17µ] immersion silver	<u>Ø0.0630+0.0035-0.0024</u> [Ø1.600+0.090-0.060]									
PCB	12 BI-SPRING	<u>Ø0.102±0.001</u> [Ø2.59±0.025]	over 0.0010 [25µ] min. copper	<u>Ø0.096±0.002</u> [Ø2.44±0.05]									
	8 BI-SPRING	<u>Ø0.125±0.001</u> [ø3.18±0.025]		<u>Ø0.119±0.002</u> [Ø3.02±0.05]									
	20 OMEGA	<u>Ø0.047±0.001</u> [Ø1.19±0.025]	0.000002 [0.05µ] min.	<u>Ø0.043±0.002</u> [Ø1.09±0.05]									
ELECTROLESS NICKEL / IMMERSION	16 BI-SPRING	<u>Ø0.069±0.001</u> [Ø1.750±0.025]	immersion gold over 0.000177±0.000059 [4.5±1.5µ] electroless	<u>Ø0.0630+0.0035-0.0024</u> [Ø1.600+0.090-0.060]									
GOLD PCB	12 BI-SPRING	<u>Ø0.102±0.001</u> [Ø2.59±0.025]	nickel per IPC-4552 over 0.0010 [25µ] min. copper	<u>Ø0.096±0.002</u> [Ø2.44±0.05]									
	8 BI-SPRING	<u>Ø0.125±0.001</u> [Ø3.180±0.025]	тіші. соррег	<u>ø0.119±0.002</u> [ø3.02±0.05]									

"Omega" Termination utilized on signal contacts



"Bi-Spring" Termination





COMPLIANT PRESS-IN TERMINATION **CONTACT HOLE**

NOTE: For PCB plating compositions not shown, consult Technical Sales.

COMPLIANT PRESS-IN USER INFORMATION

When properly used, Positronic omega and bi-spring compliant press-in terminations provide reliable service even under severe conditions.

Connectors utilizing this leading technology compliant press-in contact are easy to install:

- 1. Inexpensive installation tooling is available from Positronic, to choose the proper installation tool refer to page 56 for part number ordering information.
- 2. Insert the connector into the P.C. board or backplane and seat connector fully.
- 3. Secure the connector to the P.C. board or backplane using two self-tapping screws. The screws should be #2 self-tapping screws for plastic.

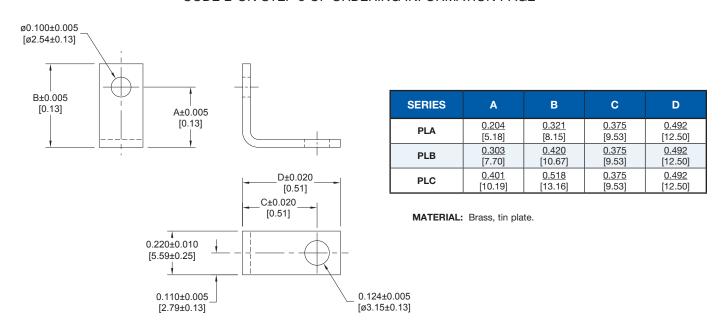


RIGHT ANGLE (90°) METAL AND PLASTIC MOUNTING BRACKETS

Power Connection Systems

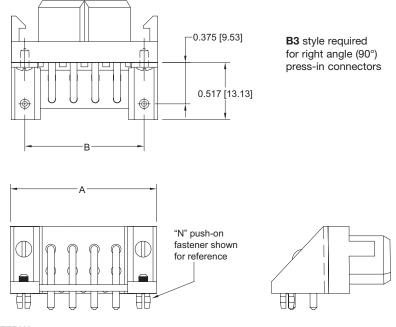
RIGHT ANGLE (90°) METAL MOUNTING BRACKETS

CODE B ON STEP 5 OF ORDERING INFORMATION PAGE



RIGHT ANGLE (90°) PLASTIC MOUNTING BRACKET WITH CROSS BAR

CODE B3 OR CODE B3N ON STEP 5 OF ORDERING INFORMATION PAGE



	1					
CONNECTOR VARIANT	Α	В				
PLA03	<u>1.126</u> [28.60]	<u>0.882</u> [22.40]				
PLA04	1.324 [33.63]	1.080 [27.43]				
PLA06	1.718 [43.64]	<u>1.474</u> [37.44]				
PLA08	<u>2.112</u> [53.64]	<u>1.868</u> [47.45]				
PLB06	<u>1.126</u> [28.60]	<u>0.882</u> [22.40]				
PLB08	1.324 [33.63]	1.080 [27.43]				
PLB12	<u>1.718</u> [43.64]	<u>1.474</u> [37.44]				
PLB16	2.112 [53.64]	1.868 [47.45]				
PLC09	<u>1.126</u> [28.60]	<u>0.882</u> [22.40]				
PLC12	1.324 [33.63]	1.080 [27.43]				
PLC18	<u>1.718</u> [43.64]	<u>1.474</u> [37.44]				
PLC24	2.112 [53.64]	1.868 [47.45]				
PLC30	2.506 [63.65]	<u>2.262</u> [57.45]				

MOUNTING BRACKET/CROSS BAR: Glass filled polyester, UL 94V-0. PUSH-ON FASTENERS: Copper alloy, tin plated.

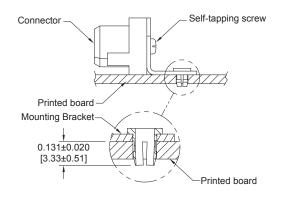


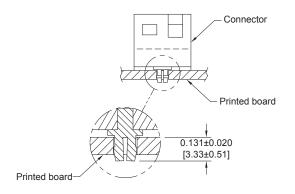
PUSH-ON FASTENERS

CODE BN OR CODE N ON STEP 5 OF ORDERING INFORMATION PAGE

CODE BNFOR USE WITH RIGHT ANGLE (90°) CONNECTOR

CODE NFOR USE WITH STRAIGHT SOLDER CONNECTOR





MATERIAL: Spring tempered copper alloy, tin plated.

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.123 \pm 0.002 [3.12] Ø hole in printed board for mounting connector with push-on fasteners.

MOUNTING SCREWS

CODE ST2, ST3, ST4, SS2, SS3, OR SS4 ON STEP 5 OF ORDERING INFORMATION PAGE NOTE: MOUNTING SCREWS FOR RIGHT ANGLE CONNECTORS ARE ORDERED SEPARATELY USING PART NUMBERS SHOWN IN CHART BELOW.

Stresses that occur during coupling and uncoupling of connectors or through shock and vibration of systems can be transferred to backplanes or P.C. boards through press-in connector terminations. Avoid concern over electrical integrity of the connector to board interface by using mounting screws. Bellcore GR1217 details a preference for the use of mounting hardware and we recommend this practice.

SCREWS ARE #2 SELF-TAPPING FOR PLASTIC.

MOUNTING STYLE OPTION	MATERIAL OPTIONS	PART NUMBER	THREAD LENGTH	P.C. BOARED THICKNESS
ST2	STEEL	A4546-7-1 <u>-97</u>	0.250±0.030 [6.35±0.76]	<u>0.093</u> [2.36]
ST3	STEEL	A4546-7-2 <u>-97</u>	0.312±0.030 [7.93±0.76]	<u>0.125</u> [3.18]
ST4	STEEL	A4546-7-3 <u>-97</u>	0.375±0.030 [9.53±0.76]	<u>0.175</u> [4.45]
SS2	STAINLESS STEEL	A4546-7-6-4	0.250±0.030 [6.35±0.76]	<u>0.093</u> [2.36]
SS3	STAINLESS STEEL	A4546-7-7-4	0.312±0.030 [7.93±0.76]	<u>0.125</u> [3.18]
SS4	STAINLESS STEEL	A4546-7-8-4	0.375±0.030 [9.53±0.76]	<u>0.175</u> [4.45]

CONSULT TECHNICAL SALES IF AN ALTERNATE SCREW IS REQUIRED.

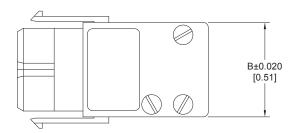
ACCESSORIES

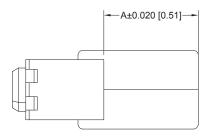
CONNECTOR HOODS

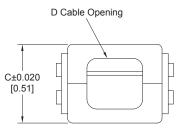
Power Connection Systems

POWER CONNECTION SYSTEMS HOOD

CODE 5 ON STEP 6 OF ORDERING INFORMATION PAGE





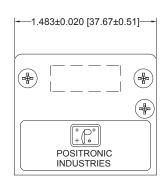


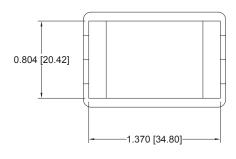
Features internal cable clamp.

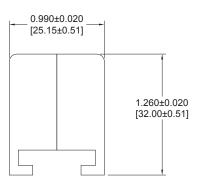
CONNECTOR VARIANT	Α	В	С	D
PLA03	1.000 [25.40]	<u>0.752</u> [19.10]	<u>0.594</u> [15.09]	0.312 x 0.363 [7.92] x [9.22]
PLA04	1.000 [25.40]	<u>0.950</u> [24.13]	<u>0.594</u> [15.09]	0.312 x 0.561 [7.92] x [14.25]
PLA06	1.000 [25.40]	1.344 [34.14]	<u>0.594</u> [15.09]	0.312 x 0.955 [7.92] x [24.26]
PLA08	1.000 [25.40]	1.738 [44.15]	<u>0.594</u> [15.09]	0.312 x 1.349 [7.92] x [34.26]
PLB06	1.000 [25.40]	<u>0.752</u> [19.10]	<u>0.792</u> [20.12]	0.510 [12.95] x 0.363 [9.22]
PLB08	1.000 [25.40]	<u>0.950</u> [24.13]	<u>0.792</u> [20.12]	0.510 [12.95] x 0.561 [14.25]
PLB12	1.000 [25.40]	1.344 [34.14]	<u>0.792</u> [20.12]	0.510 [12.95] x 0.955 [24.26]
PLB16	1.000 [25.40]	1.738 [44.15]	<u>0.792</u> [20.12]	0.510 [12.95] x 1.349 [34.26]
PLB3W3	1.000 [25.40]	<u>0.950</u> [24.13]	<u>0.792</u> [20.12]	0.510 [12.95] x 0.561 [14.25]
PLC09	1.000 [25.40]	<u>0.752</u> [19.10]	<u>0.990</u> [25.15]	0.708 [17.98] x 0.363 [9.22]
PLC12	1.000 [25.40]	<u>0.950</u> [24.13]	<u>0.990</u> [25.15]	0.708 [17.98] x 0.561 [14.25]
PLC18	1.000 [25.40]	<u>1.344</u> [34.14]	<u>0.990</u> [25.15]	0.708 [17.98] x 0.955 [24.26]
PLC24	1.000 [25.40]	1.738 [44.15]	<u>0.990</u> [25.15]	0.708 [17.98] x 1.349 [34.26]
PLC30	1.000 [25.40]	<u>2.132</u> [54.15]	0.990 [25.15]	0.708 [17.98] x 1.743 [44.27]

HOOD FOR USE WITH PLS5W5 CONNECTOR

CODE 5 ON STEP 6 OF ORDERING INFORMATION PAGE







For PLS5W5 Connector Only

Features internal cable clamp.

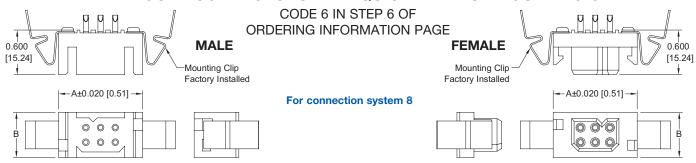
CONTACT TECHNICAL SALES FOR AVAILABILITY OF 7W7 VARIANT.

ACCESSORIES

QUICK RELEASE MOUNTING CLIP AND PANEL CUTOUT



PANEL MOUNT CONNECTORS WITH QUICK RELEASE MOUNTING CLIP



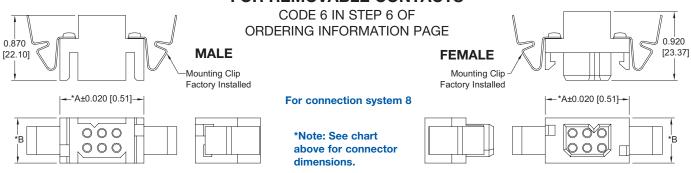
Typical part number: PLB06M206C1

Typical part number: PLB06F206C1

CONNECTOR VARIANTS	Α	В
PLA03	1.126 [28.60]	0.408 [10.36]
PLA04	1.324 [33.63]	0.408 [10.36]
PLA06	1.718 [43.64]	0.408 [10.36]
PLA08	2.112 [53.64]	0.408 [10.36]
PLB06	1.126 [28.60]	0.606 [15.39]
PLB08	1.324 [33.63]	0.606 [15.39]
PLB12	1.718 [43.64]	0.606 [15.39]

CONNECTOR VARIANTS	Α	В
PLB16	2.112 [53.64]	0.606 [15.39]
PLB20	2.506 [63.65]	0.606 [15.39]
PLC09	1.126 [28.60]	0.802 [30.37]
PLC12	1.324 [33.63]	0.802 [30.37]
PLC18	1.718 [43.64]	0.802 [30.37]
PLC24	2.112 [53.64]	0.802 [30.37]
PLC30	2.506 [63.65]	0.802 [30.37]

PANEL MOUNT CONNECTORS WITH QUICK RELEASE MOUNTING CLIP FOR REMOVABLE CONTACTS



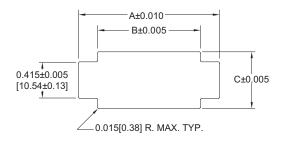
Tv	nical	nart	number:	PL BOSM	1060
ΙV	picai	part	number.	PLDUGIN	1000

Typical part number: PLB06F1060

CONNECTOR VARIANTS	Α	В	С
PLA03	1.600 [40.64]	1.168 [29.67]	0.445 [11.30]
PLA04	1.798 [45.67]	1.366 [34.70]	0.445 [11.30]
PLA06	2.192 [55.68]	1.760 [44.70]	0.445 [11.30]
PLA08	2.586 [65.68]	2.154 [54.71]	0.445 [11.30]
PLB06	1.600 [40.64]	1.168 [29.67]	0.643 [16.33]
PLB08	1.798 [45.67]	1.366 [34.70]	0.643 [16.33]
PLB12	2.192 [55.68]	1.760 [44.70]	0.643 [16.33]
PLB16	2.586 [65.68]	2.154 [54.71]	0.643 [16.33]
PLB20	2.980 [75.69]	2.548 [64.72]	0.643 [16.33]
PLC09	1.600 [40.64]	1.168 [29.67]	0.839 [21.31]
PLC12	1.798 [45.67]	1.366 [34.70]	0.839 [21.31]
PLC18	2.192 [55.68]	1.760 [44.70]	0.839 [21.31]
PLC24	2.586 [65.68]	2.154 [54.71]	0.839 [21.31]
PLC30	2.980 [75.69]	2.548 [64.72]	0.839 [21.31]

PANEL CUTOUT

FOR USE WITH QUICK RELEASE MOUNTING CLIPS



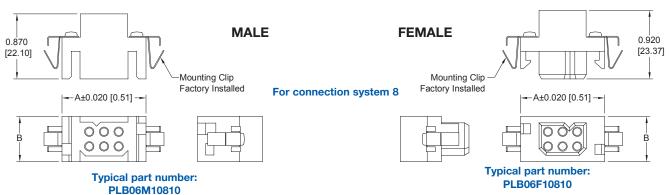
Maximum panel thickness: 0.063 [1.60] nominal.

FIXED STYLE MOUNTING CLIP AND PANEL CUTOUT

Power Connection Systems

PANEL MOUNT CONNECTORS WITH *FIXED STYLE MOUNTING CLIP

CODE 81, 82 AND 83 IN STEP 6 OF ORDERING INFORMATION PAGE



CLIP MATERIAL: Beryllium copper, nickel plated

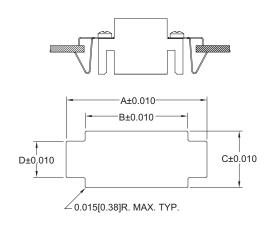
PART NUMBER	PANEL THICKNESS
PL****81*	<u>0.040</u> [1.02]
PL****82*	<u>0.060</u> [1.52]
PL****83*	<u>0.090</u> [2.29]

* May be used with either fixed solder or removable contact connector insulators.

CONNECTOR VARIANTS	A	В			
PLA03	1.126 [28.60]	0.408 [10.36]			
PLA04	1.324 [33.63]	0.408 [10.36]			
PLA06	1.718 [43.64]	0.408 [10.36]			
PLA08	2.112 [53.64]	0.408 [10.36]			
PLB06	1.126 [28.60]	0.606 [15.39]			
PLB08	1.324 [33.63]	0.606 [15.39]			
PLB12	1.718 [43.64]	0.606 [15.39]			
PLB16	2.112 [53.64]	0.606 [15.39]			
PLB20	2.506 [63.65]	0.606 [15.39]			
PLC09	1.126 [28.60]	0.802 [30.37]			
PLC12	1.324 [33.63]	0.802 [30.37]			
PLC18	1.718 [43.64]	0.802 [30.37]			
PLC24	2.112 [53.64]	0.802 [30.37]			
PLC30	2.506 [63.65]	0.802 [30.37]			

PANEL CUTOUT

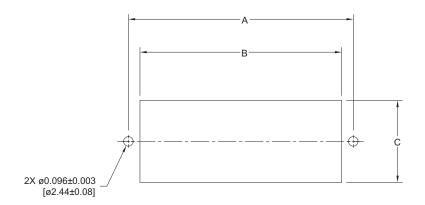
FOR USE WITH FIXED STYLE MOUNTING CLIPS



CONNECTOR VARIANTS	Α	В	С	D
PLA03	1.380 [35.05]	1.150 [29.21]	0.445 [11.30]	0.193 [4.90]
PLA04	1.578 [40.08]	1.348 [34.24]	0.445 [11.30]	0.193 [4.90]
PLA06	1.972 [50.09]	1.742 [44.25]	0.445 [11.30]	0.193 [4.90]
PLA08	2.366 [60.10]	2.136 [54.25]	0.445 [11.30]	0.193 [4.90]
PLB06	1.380 [35.05]	1.150 [29.21]	0.643 [16.33]	0.300 [7.62]
PLB08	1.578 [40.08]	1.348 [34.24]	0.643 [16.33]	0.300 [7.62]
PLB12	1.972 [50.09]	1.742 [44.25]	0.643 [16.33]	0.300 [7.62]
PLB16	2.366 [60.10]	2.136 [54.25]	0.643 [16.33]	0.300 [7.62]
PLB20	2.760 [70.10]	2.530 [64.26]	0.643 [16.33]	0.300 [7.62]
PLC09	1.380 [35.05]	1.150 [29.21]	0.839 [21.31]	0.300 [7.62]
PLC12	1.578 [40.08]	1.348 [34.24]	0.839 [21.31]	0.300 [7.62]
PLC18	1.972 [50.09]	1.742 [44.25]	0.839 [21.31]	0.300 [7.62]
PLC24	2.366 [60.10]	2.136 [54.25]	0.839 [21.31]	0.300 [7.62]
PLC30	2.760 [70.10]	2.530 [64.26]	0.839 [21.31]	0.300 [7.62]

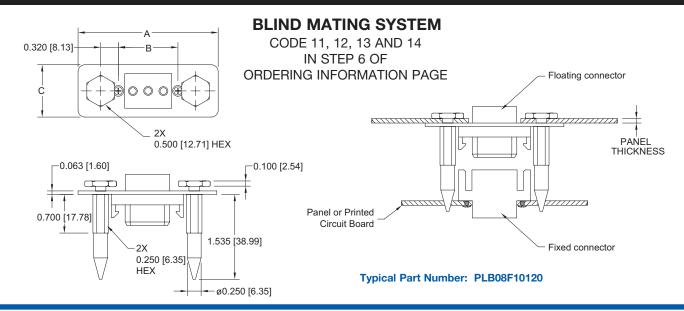


PANEL MOUNT CUTOUT



CONNECTOR VARIANTS	A	B	C
	±0.005	±0.005	±0.005
PLA03	<u>0.882</u>	<u>0.650</u>	<u>0.430</u>
	[22.40]	[16.51]	[10.92]
PLA04	<u>1.079</u>	<u>0.847</u>	<u>0.430</u>
	[27.41]	[21.51]	[10.92]
PLA06	<u>1.473</u>	<u>1.241</u>	<u>0.430</u>
	[37.41]	[31.52]	[10.92]
PLA08	<u>1.867</u>	<u>1.635</u>	<u>0.430</u>
	[47.42]	[41.53]	[10.92]
PLB06	<u>0.882</u>	<u>0.650</u>	<u>0.627</u>
	[22.40]	[16.51]	[15.93]
PLB08	<u>1.079</u>	<u>0.847</u>	<u>0.627</u>
	[27.41]	[21.51]	[15.93]
PLB12	1.473	<u>1.241</u>	<u>0.627</u>
	[37.41]	[31.52]	[15.93]
PLB16	<u>1.867</u>	<u>1.635</u>	<u>0.627</u>
	[47.42]	[41.53]	[15.93]
PLB20	<u>2.262</u>	2.029	<u>0.627</u>
	[57.45]	[51.54]	[15.93]
PLB3W3	1.079	<u>0.847</u>	<u>0.627</u>
	[27.41]	[21.51]	[15.93]
PLB10W2	1.473	<u>1.241</u>	<u>0.627</u>
	[37.41]	[31.52]	[15.93]
PLC09	<u>0.882</u>	<u>0.650</u>	<u>0.824</u>
	[22.40]	[16.51]	[20.93]
PLC12	<u>1.079</u>	<u>0.847</u>	<u>0.824</u>
	[27.41]	[21.51]	[20.93]
PLC18	1.473	<u>1.241</u>	<u>0.824</u>
	[37.41]	[31.52]	[20.93]
PLC24	<u>1.867</u>	<u>1.635</u>	<u>0.824</u>
	[47.42]	[41.53]	[20.93]
PLC30	<u>2.262</u>	2.029	<u>0.824</u>
	[57.45]	[51.54]	[20.93]
PLC16W4	<u>1.473</u>	<u>1.241</u>	<u>0.824</u>
	[37.41]	[31.52]	[20.93]

BLIND MATING SYSTEM AND PANEL CUTOUT



PANEL CUTOUT

FOR USE WITH FLOATING AND FIXED CONNECTOR BLIND MATING SYSTEMS

PLOATING CONNECTOR 2X Ø0.400±0.003 [10.16±0.08]

2X Ø0.265±0.003 [6.73±0.08]

FIXED CONNECTOR

NOTE: Panel thickness may impact the orientation of mating end of blind mate pin. Shimming between the panel and the head of the blind mate pin may be necessary to minimize tilt of the blind mate system. Contact technical sales for additional technical information.

MATERIALS AND FINISHES:

BLIND MATING PLATE: Stainless steel.
BLIND MATING GUIDE: Stainless steel, passivated.
FLOAT SCREW: Steel, zinc plate with chromate seal.

Blind mating system provides lead in for 0.100 [2.54] axial misalignment.

Blind mating system sold in a kit containing a connector - plate assembly, Blind mating guides, and float screws.

PART NUMBER	PANEL THICKNESS
PL****11* PLB3W3*10110	0.040 [1.02]
PL****12* PLB3W3*10120	0.060 [1.52]
PL****13* PLB3W3*10130	0.090 [2.28]
PL****14* PLB3W3*10140	0.120 [3.05]

CONNECTOR VARIANTS	Α	B ±0.005	С	D ±0.005	D ₁ ±0.005	E ±0.005	E ₁ ±0.005	F ±0.005
PLA03	<u>2.340</u>	<u>0.882</u>	<u>0.750</u>	<u>0.650</u>	<u>0.860</u>	<u>0.430</u>	<u>0.640</u>	1.522
	[59.44]	[22.40]	[19.05]	[16.51]	[21.84]	[10.92]	[16.26]	[38.66]
PLA04	2.537	1.079	<u>0.750</u>	<u>0.847</u>	1.057	<u>0.430</u>	<u>0.640</u>	1.719
	[64.44]	[27.41]	[19.05]	[21.51]	[26.85]	[10.92]	[16.26]	[43.66]
PLA06	2.931	1.473	<u>0.750</u>	<u>1.241</u>	<u>1.451</u>	<u>0.430</u>	<u>0.640</u>	<u>2.113</u>
	[74.45]	[37.41]	[19.05]	[31.52]	[36.86]	[10.92]	[16.26]	[53.67]
PLA08	3.325	1.867	<u>0.750</u>	<u>1.635</u>	<u>1.845</u>	<u>0.430</u>	<u>0.640</u>	2.507
	[84.46]	[47.42]	[19.05]	[41.53]	[46.86]	[10.92]	[16.26]	[63.68]
PLB06	2.340	<u>0.882</u>	<u>0.947</u>	<u>0.650</u>	<u>0.860</u>	<u>0.627</u>	<u>0.837</u>	1.522
	[59.44]	[22.40]	[24.05]	[16.51]	[21.84]	[15.93]	[21.26]	[38.66]
PLB08	<u>2.537</u>	1.079	<u>0.947</u>	<u>0.847</u>	1.057	<u>0.627</u>	<u>0.837</u>	1.719
	[64.44]	[27.41]	[24.05]	[21.51]	[26.85]	[15.93]	[21.26]	[43.66]
PLB12	2.931	1.473	<u>0.947</u>	<u>1.241</u>	<u>1.451</u>	<u>0.627</u>	<u>0.837</u>	2.113
	[74.45]	[37.41]	[24.05]	[31.52]	[36.86]	[15.93]	[21.26]	[53.67]
PLB16	3.325	<u>1.867</u>	<u>0.947</u>	<u>1.635</u>	<u>1.845</u>	<u>0.627</u>	<u>0.837</u>	<u>2.507</u>
	[84.46]	[47.42]	[24.05]	[41.53]	[46.86]	[15.93]	[21.26]	[63.68]
PLB3W3	<u>2.537</u>	<u>1.079</u>	<u>0.947</u>	<u>0.847</u>	<u>1.057</u>	<u>0.627</u>	<u>0.837</u>	<u>1.719</u>
	[64.44]	[27.41]	[24.05]	[21.51]	[26.85]	[15.93]	[21.26]	[43.66]
PLC09	<u>2.340</u>	<u>0.882</u>	1.144	<u>0.650</u>	<u>0.860</u>	<u>0.824</u>	1.034	1.522
	[59.44]	[22.40]	[29.06]	[16.51]	[21.84]	[20.93]	[26.26]	[38.66]
PLC12	2.537	1.079	1.144	<u>0.847</u>	1.057	<u>0.824</u>	1.034	1.719
	[64.44]	[27.41]	[29.06]	[21.51]	[26.85]	[20.93]	[26.26]	[43.66]
PLC18	2.931	1.473	1.144	1.241	1.451	<u>0.824</u>	1.034	2.113
	[74.45]	[37.41]	[29.06]	[31.52]	[36.86]	[20.93]	[26.26]	[53.67]
PLC24	3.325	<u>1.867</u>	<u>1.144</u>	<u>1.635</u>	<u>1.845</u>	<u>0.824</u>	1.034	2.507
	[84.46]	[47.42]	[29.06]	[41.53]	[46.86]	[20.93]	[26.26]	[63.68]
PLC30	3.720	2.262	1.144	2.029	2.239	<u>0.824</u>	1.034	2.902
	[94.49]	[57.45]	[29.06]	[51.54]	[56.87]	[20.93]	[26.26]	[73.71]

Ø0.096±0.003 [2.44±0.08]

rcellence Positronic HIGH RELIABILITY Products

O W



FEATURES:

- High current density Energy saving low contact resistance • Hot swap capability AC/DC operation in a single connector
- Signal contacts for hardware management
- Blind mating Sequential mating Large surface area contact mating system
- Wide variety of accessories Customer-specified contact arrangements
- Modular tooling which produces a single piece connector insert

Contact Sizes: **Current Ratings:** Terminations:

Compliance:

0, 4, 8, 12, 16, 18, 20, 22 and 24

Crimp and fixed cable connector, straight solder, right angle (90°) solder, straight compliant press-in and right angle (90°) compliant

Multiple variants in a variety of package sizes PICMG 2.11, PICMG 3.0, VITA 41, DSCC, GSFC S-311-P-4, Configurations:

GSFC S-311-P-10

MINIA



Contact Sizes: **Current Ratings:** Terminations:

To 100 amperes

Configurations:

Qualifications:

FEATURES: Four performance levels available for best cost/performance ratio: professional, industrial, military and space-flight quality

- Options include high voltage, coax, thermocouple and air coupling contacts; environmentally sealed and dual port connector packages including mixed density
- Broad selection of accessories
- Size 20 and 22 contacts suitable for use in carrying power
- IP65, IP67

Crimp, wire solder, straight solder, right angle (90°) solder, straight compliant press-in and right angle (90°) compliant press-in Multiple variants in both standard and high densities, seven connector

MIL-DTL-24308, GSFC S-311-P-4, GSFC S-311-P-10,

8, 16, 20 and 22



FEATURES:

- Two performance levels available: industrial quality and military quality
- A wide variety of accessories
- Broad selection of contact arrangement and package sizes
- Connector coding device (keying) options



CULA

- FEATURES: Non-corrodible / lightweight composite construction
- EMI/RFI shielded versions
- Thermocouple contacts
- Environmentally sealed versions
- Rear insertion/ front release of removable contacts
- Two level sequential mating
- Overmolding available on full assemblies

Contact Sizes: **Current Ratings:** Terminations:

16, 20 and 22

To 13 amperes nominal

Crimp, wire solder, straight solder, right angle (90°) solder, and straight compliant press-in Multiple variants in both standard and high densities,

Configurations:

Qualifications: MIL-DTL-28748, AS39029, CCITT V.35 Contact Sizes:

Terminations:

Environmental protection to IP67 Configurations: Qualifications:

Current Ratings:

12, 16, 20 and 22 Crimp, wire solder, straight solder, and right angle (90°) solder To 25 amperes nominal

Multiple variants in four package sizes

R



Contact Sizes: **Current Ratings:** Terminations:

8, 12, 16, 20 and 22

To 40 amperes nominal

Configurations: Compliance:

Feedthrough is standard; flying leads and board mount available

See D-subminiature and circular configurations above





FEATURES:

- Intended for use as an electrical feedthrough in high vacuum applications
- Helium leakage rate at ambient temperature: < 5x10⁻⁹ mbar.l/s under a vacuum 1.5x10-2 mbar
- Signal, power, coax and high voltage versions available
- Connectors can be mounted on flange assembly per customer specification

