D-SUBMINIATURE

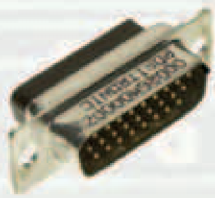
Connectors

LOOK FOR OUR NEW PRODUCTS!

NEW!

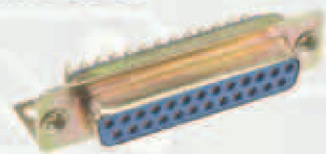
Positronic®

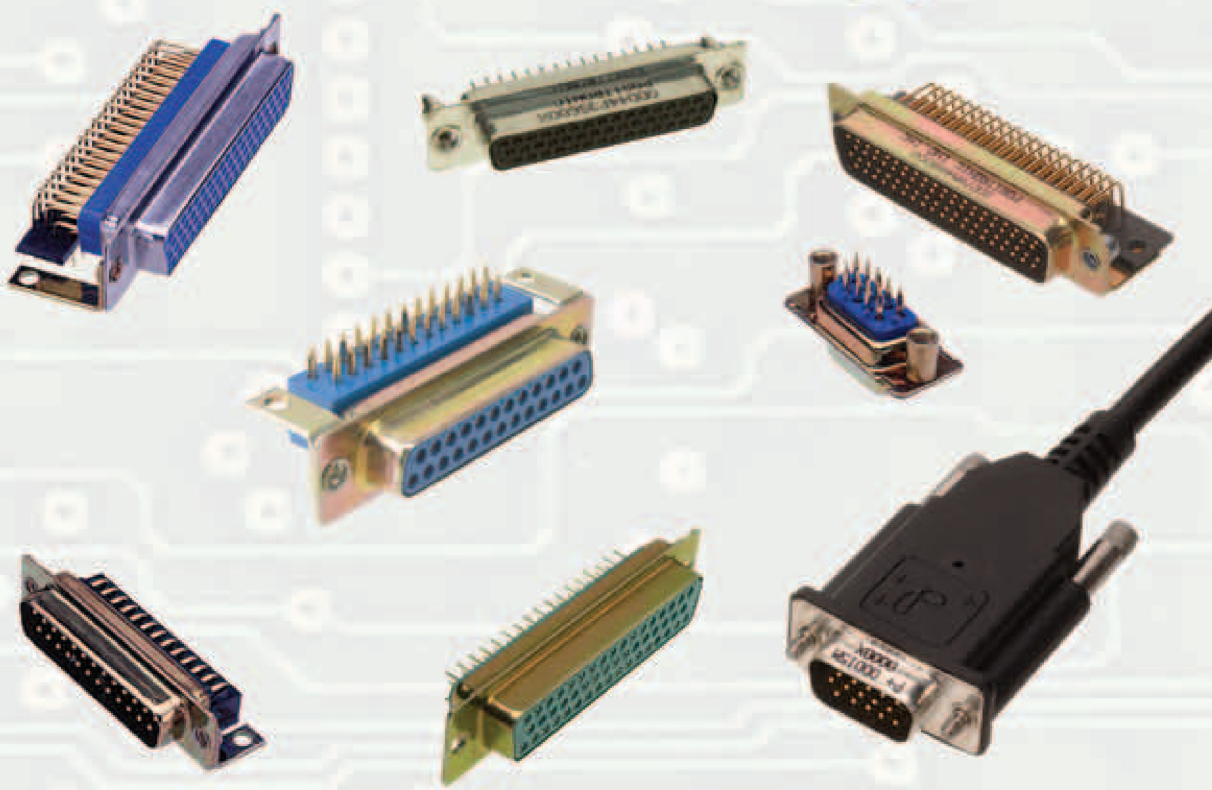
global connector solutions



Professional, Industrial and Military Performance

THREE PERFORMANCE LEVELS FOR BEST COST/PERFORMANCE RATIO





Catalog C-001 Rev. G

www.connectpositronic.com

Connector Excellence®

Positronic Provides Complete Capability

Mission Statement

"To utilize product flexibility and application assistance to present quality interconnect solutions which represent value to customers worldwide."

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

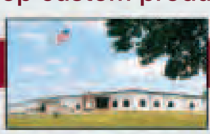
- **Expertise** with solid machined contacts provides a variety of high reliability connectors including high current density power connectors.
- Quality Assurance lab is **capable of testing** to IEC, EIA, UL, CUL, military and customer-specified requirements.
- **In-house design and development** of 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

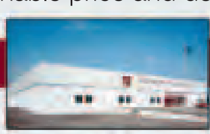
- **Quality Systems:** Select locations qualified to ISO 9001, ISO 14001, AS9100, MIL-STD-790 and customer "dock to stock" programs. Applicable products qualified to MIL-DTL-24308, SAE AS39029, DSCC 85039, MIL-DTL-28748, Space D32, GSFC S-311-P-4 and GSFC S-311-P-10.
- Compliance to a variety of international 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

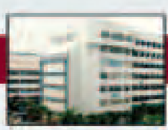
Springfield, MO



Auch, France



Singapore



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

[†]Patented in Canada, 1992 Other Patents Pending

Positronic Industries' **FEDERAL SUPPLY CODE** (Cage Code) FOR MANUFACTURERS is **28198**

Unless otherwise specified, dimensional tolerances are:

1) ±0.001 inches [0.03 mm] for male contact mating diameters.
2) ±0.003 inches [0.08 mm] for contact termination diameters.
3) ±0.005 inches [0.13 mm] for all other diameters.
4) ±0.015 inches [0.38 mm] for all other dimensions.

POSITRONIC® IS AN ITAR REGISTERED COMPANY

CONNECTOR DESCRIPTIONS

MELO-D and EURO-D CONNECTORS

MD series and ED series, professional level, fixed contacts. Solder cup, wrap post, and printed board contact terminations for inch and metric printed board hole patterns. Six connector variants, 9 through 50 contacts. Female open entry contacts. Connectors conform to IEC 60807-2, Performance Level Two.

MDX SERIES CONNECTORS

MDX series, industrial level, fixed contacts. Solder cup, straight and right angle (90°) printed board mount contact terminations. Five connector variants, 9 through 50 contacts. PosiBand closed entry female contacts. Connectors conform to IEC 60807-2, Performance Level One.

SOLI-D CONNECTORS

SD series, professional level, removable contacts. Solder cup, crimp and straight printed board mount contact terminations. Five connector variants, 9 through 50 contacts. PosiBand® closed entry female contacts. Connectors conform to IEC 807-3, Performance Level Two.

ORD SERIES CONNECTORS

ORD series, professional and industrial levels, removable contacts. Crimp contact terminations. Thermocouple contact options available. Six connector variants, 9 through 50 contacts. IEC 60807-3, Performance Level One or Two.

HARMO-D CONNECTORS

HDC series, MIL-DTL-24308 level, fixed contact. Solder cup, wrap post and straight and right angle (90°) printed board contact terminations. Thermocouple contact options available. Five connector variants, 9 through 50 contacts.

RHAPSO-D CONNECTORS

RD series, MIL-DTL-24308 / SAE AS39029 levels, removable contacts. Crimp contact terminations. Thermocouple contact options available. Six connector variants, 9 through 50 contacts.

ODD SERIES CONNECTORS

ODD series, professional and industrial levels, removable contacts. Solder cup, crimp and straight and right angle (90°) printed board contact terminations. Thermocouple contact options available. Six connector variants, 15 through 104 contacts.

DENSI-D CONNECTORS

DD series, MIL-DTL-24308 / SAE AS39029 levels, removable contacts. Solder cup, crimp and straight and right angle (90°) printed board contact terminations. Thermocouple contact options available. Six connector variants, 15 through 104 contacts.

STANDARD DENSITY COMPLIANT PRESS-FIT CONNECTORS

PCD series, professional, industrial and military levels, machined contact, compliant termination. Five connector variants, 9 through 50 contacts. IEC 60807-2, Performance Levels One or Two. Military contact plating optional.

HIGH DENSITY COMPLIANT PRESS-FIT CONNECTORS

PCDD series, professional, industrial and military levels, machined contact, compliant termination. Five connector variants, 15 through 104 contacts. Military contact plating optional.

Positronic
connectpositronic.com

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GENERAL INFORMATION

MD SERIES

MDX SERIES

ED SERIES

SD SERIES

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PCDD SERIES

CONNECTOR SAVERS/ GENDER CHANGERS

APPLICATION TOOLS

QPL LISTING

Visit our website for the latest catalog updates and supplements at www.connectpositronic.com/dsub/catalog

WIRE HARNESS CONNECTORS

SAVE TIME AND MONEY!

Let Positronic support you by cablizing your
SD / RD / ORD / ODD / DD connector selection.

Cable Assembly Design Support

We work closely with customers to:

1. Design assemblies in accordance with customer specifications.
2. Prepare wire harness connector configuration and performance specifications.
3. Design each system in accordance with applicable customer, domestic, and international standards.
4. Define and conduct performance and verification testing.

Technical Sales Support

Engineering Support

Puerto Rico Cable Assembly

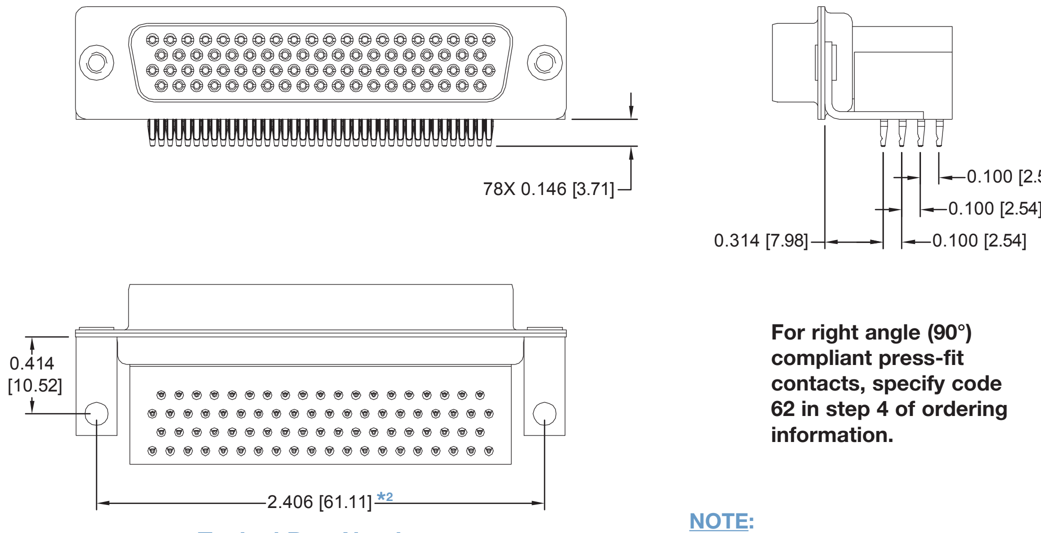
Quality Assurance

FOR MORE DETAILS CONTACT ***TECHNICAL SALES***
OR VISIT OUR ***WEB SITE*** AT:
CONNECTPOSITRONIC.COM/CABLE-ASSEMBLIES

RIGHT ANGLE (90°) COMPLIANT PRESS-FIT TERMINATION

CODE 62*1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



For right angle (90°) compliant press-fit contacts, specify code 62 in step 4 of ordering information.

Typical Part Number:
PCDD78S62R7000

NOTE:

*1 Currently available in 78 female variants only, contact Technical Sales for availability of other variants.

*2 Dimension applies for metal angle brackets only. Consult Accessories D-subminiature Catalog for dimension when plastic brackets are used.

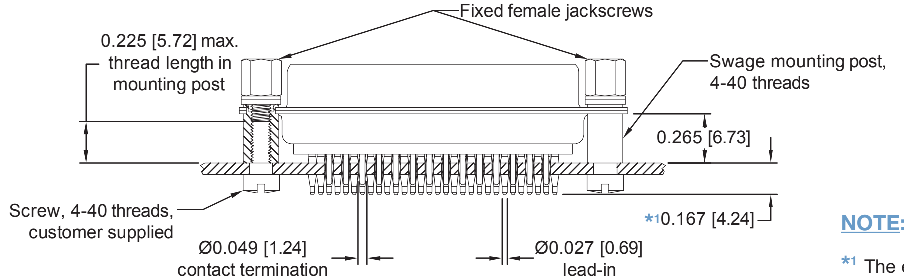
SUGGESTED PRINTED BOARD HOLE SIZES:

For right angle (90°) printed board contact hole pattern, see page 69.

STRAIGHT COMPLIANT PRESS-FIT TERMINATION

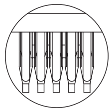
CODE 98

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



For straight compliant press-fit contacts, specify code 98 in step 4 of ordering information.

Typical Part Number:
PCDD44F98S0T20



Detail of
Omega contacts

NOTE:

*1 The effective length of the compliant section may also be varied (longer or shorter) and can be selectively positioned and centered at several points along the contact termination length, permitting high or low profile mounting of the connector on printed boards.

SUGGESTED PRINTED BOARD HOLE SIZES:

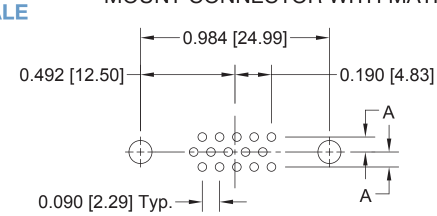
For right angle (90°) printed board contact hole pattern, see page 69.

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

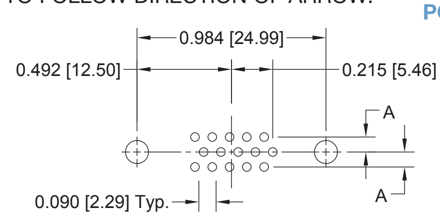
RIGHT ANGLE (90°) AND STRAIGHT COMPLIANT PRESS-FIT PRINTED BOARD CONTACT HOLE PATTERN

MOUNT CONNECTOR WITH MATING FACE POSITIONED TO FOLLOW DIRECTION OF ARROW.

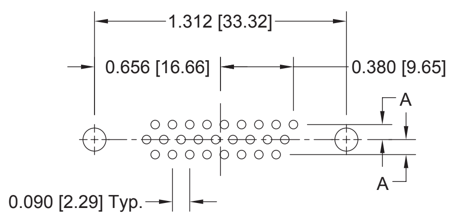
PCDD15 MALE



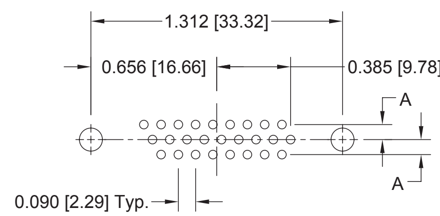
PCDD15 FEMALE



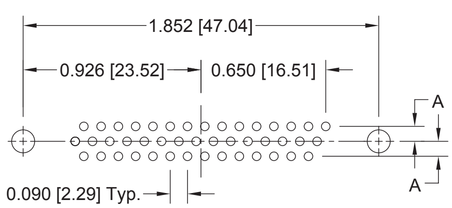
PCDD26 MALE



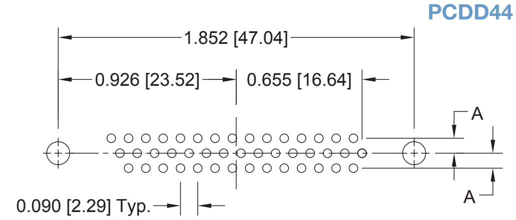
PCDD26 FEMALE



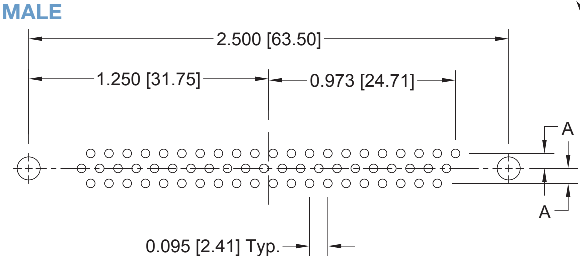
PCDD44 MALE



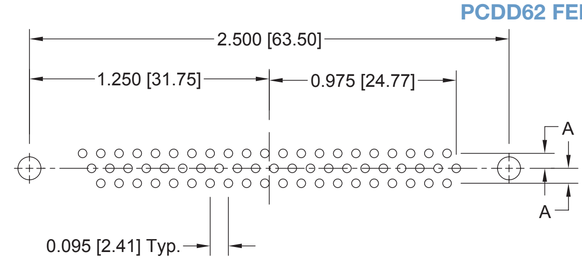
PCDD44 FEMALE



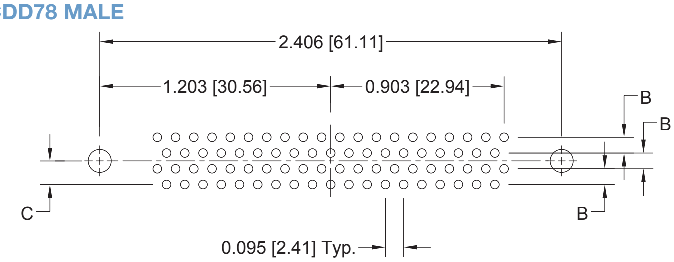
PCDD62 MALE



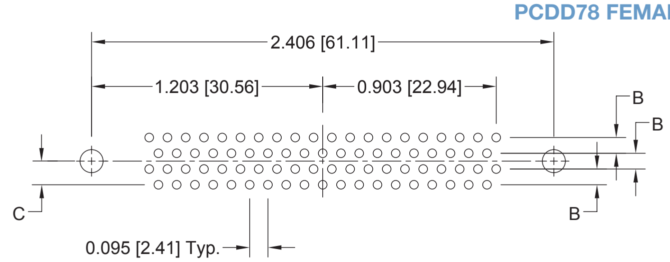
PCDD62 FEMALE



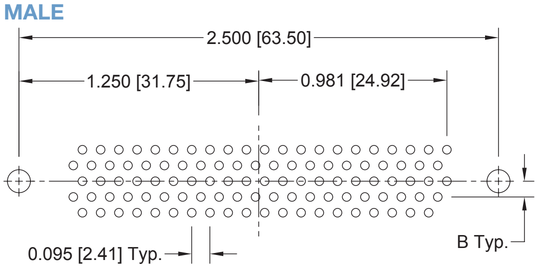
PCDD78 MALE



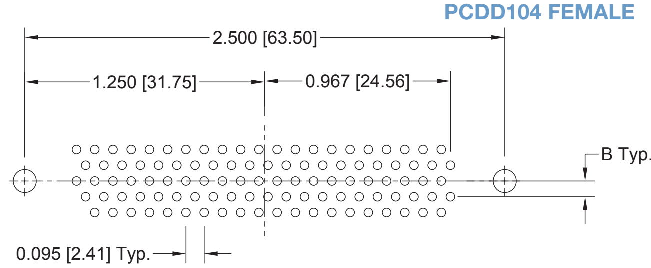
PCDD78 FEMALE



PCDD104 MALE



PCDD104 FEMALE



CODE NUMBER	A	B	C
62	0.100 [2.54]	0.100 [2.54]	0.100 [2.54]
98	0.078 [1.98]	0.082 [2.08]	0.123 [3.12]

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.120 [3.05] Ø hole for connector mounting holes.

NOTE: For suggested printed board recommended drill hole sizes, plating and finished hole sizes for compliant contact termination positions, see page 81. For compliant press-fit connector installation tools, see page 80.

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

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 8

STEP	1	2	3	4	5	6	7	8	9		10
EXAMPLE	PCDD	15	M	98	S	0	T2	0	/AA	—	-14

STEP 1 - BASIC SERIES

PCDD series

STEP 2 - CONNECTOR VARIANTS

15, 26, 44, 62, 78, 104

STEP 3 - CONNECTOR GENDER

M - Male
F - Female - Professional Level open entry contacts
S - Female - Industrial Level PosiBand closed entry contacts.

Military plating options available.

STEP 4 - CONTACT TERMINATION TYPE

*[1] 62 - Right angle (90°) printed circuit board mount, compliant press-fit
98 - Straight printed circuit board mount, compliant press-fit

STEP 5 - MOUNTING STYLE

B3 - Bracket, Mounting, Right Angle (90°) Metal with Cross Bar.
R2 - Bracket, Mounting, Right Angle (90°) Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar.
R6 - Bracket, Mounting, Right Angle (90°) Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar.
R7 - Bracket, Mounting, Right Angle (90°) Metal, Swaged to Connector with 4-40 Threads with Cross Bar.
R8 - Bracket, Mounting, Right Angle (90°) Metal, Swaged to Connector with 4-40 Locknut with Cross Bar.
S - Swaged Mounting Post 4-40 Threads 0.265 [6.73] Length.

STEP 6 - HOODS

0 - None.

STEP 7 - LOCKING AND POLARIZING SYSTEMS

0 - None.
*[2] V3 - Lock Tab.
T6 - Fixed Male and Female Polarized Jackscrews.
T2 - Fixed Female Jackscrews, 4-40 Thread.

Note: *These options must be ordered with connector and cannot be ordered separately.*

STEP 8 - Shell Options

0 - Zinc plated, with chromate seal.
*[3] S - Stainless steel, passivated.
X - Tin plated.
Z - Tin plated and dimpled (male connectors only).

STEP 9 - ENVIRONMENTAL COMPLIANCE OPTIONS

/AA - RoHS Compliant

NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: PCDD15M98S0T20

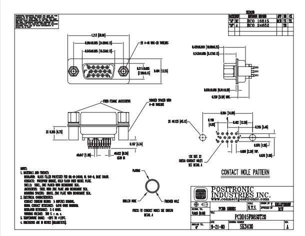
STEP 10 - SPECIAL OPTIONS

-14 - 0.000030 [0.76μ] gold over nickel.
-15 - 0.000050 [1.27μ] gold over nickel.

CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS

PCDD SERIES

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-dimensional IGES, STEP, or SOLIDWORKS file.



2-D Drawing

3-D Model

*[1] Available in 78 female variant only, contact Technical Sales for availability of other variants.

*[2] V3 locking systems are not available for connector variants 62 and 78. Jackscrews are highly recommended to minimize damage to contacts on variants with high mating forces.

*[3] For stainless steel dimpled male versions contact Technical Sales.

For information regarding COMPLIANT PRESS-FIT INSTALLATION TOOLS, see pages 80.

AD Series
Size 20 "Open Entry" Contact Design

HAD Series
Size 20 PosiBand® "Closed Entry" Contact Design

Connector Saver

AD and HAD series connectors are suitable for use in any applications requiring high performance characteristic. The normal density AD and HAD series are available in five standard connector variants of 9, 15, 25, 37 and 50 contacts.

AD and HAD series connectors utilize precision machined contacts for strength and durability. AD series female contact features a rugged open entry design. HAD series female contact features the PosiBand closed entry design for even higher reliability, see page 1 for details.

AD and HAD series connectors can be mated to a connector which would normally experience high numbers of mating cycles. The AD/HAD connector can be easily replaced, "saving" a connector which is not easily replaced.

These connectors can also be used as a "gender changer". Connectors are available in high density versions, see page 75.

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:

AD series:	Nylon resin, UL 94V-0, black color.
HAD series:	Glass-filled DAP per ASTM-D-5948, UL 94V-0.
Contacts:	Precision machined copper alloy.
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel with tin plate; zinc plate with chromate seal, stainless steel passivated. Other materials and finishes available upon request.

Low magnetic versions are available, contact Technical Sales.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 20 contacts, male - 0.040 inch [1.02 mm] mating diameter. AD series female contact offers open entry design. HAD series female contact features PosiBand closed entry design, see page 1 for details.
Connector Saver:	Male to female or male to male.
Contact Retention:	9 lbs. [40 N].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells.

Mechanical Operations:

AD series:	500 operations, minimum, per IEC 60512-5.
HAD series:	1,000 operations, minimum, per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:

Open Entry Contacts:	7.5 amperes nominal

Closed Entry Contacts, tested per UL 1977:

18 amperes, 2 contacts energized.
14 amperes, 6 contacts energized.
11 amperes, 15 contacts energized.
10 amperes, 25 contacts energized.
9 amperes, 50 contacts energized.

See temperature rise curves on page 2 for details.

Initial Contact Resistance:	0.008 ohms, maximum for AD series. 0.004 ohms, maximum for HAD series.
Proof Voltage:	1,000 V r.m.s.
Insulation Resistance:	5 G ohms.
Clearance and Creepage Distance:	0.039 inch [1.0 mm], minimum.
Working Voltage:	300 V r.m.s.

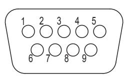
CLIMATIC CHARACTERISTICS:

Temperature Range:	-55°C to +125°C.

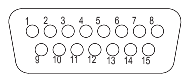
AD AND HAD SERIES SIZE 20 CONTACT CONNECTOR SAVER

CONTACT VARIANTS

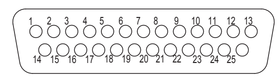
FACE VIEW OF MALE OR USE MIRROR IMAGE FOR FEMALE



SIZE 9



SIZE 15



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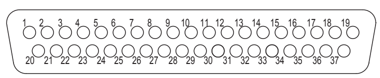
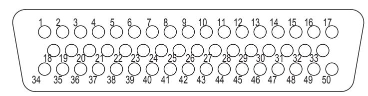


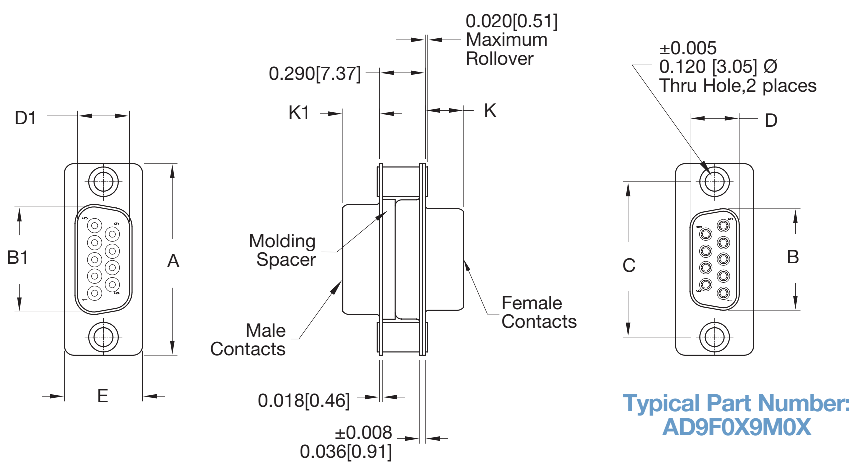
SIZE 37



SIZE 50

STANDARD SHELL ASSEMBLY DIMENSIONS

SIZE 20 CONTACTS

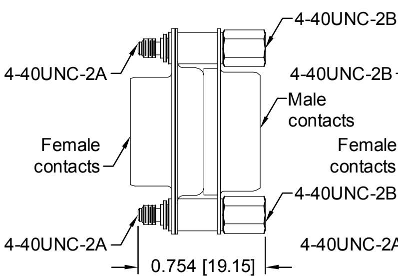


Typical Part Number:
AD9F0X9M0X

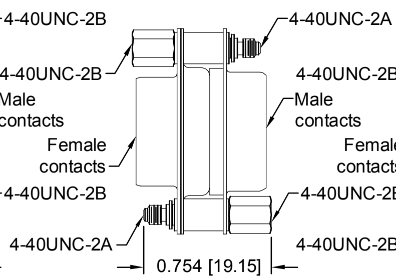
CONNECTOR VARIANT SIZES	A ±0.015 [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D ±0.005 [0.13]	D1 ±0.005 [0.13]	E ±0.015 [0.38]	K ±0.005 [0.13]	K1 ±0.005 [0.13]
9 M	1.213 [30.81]		0.666 [16.92]	0.984 [24.99]		0.329 [8.36]	0.494 [12.55]		0.233 [5.92]
9 F	1.213 [30.81]	0.643 [16.33]		0.984 [24.99]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
15 M	1.541 [39.14]		0.994 [25.25]	1.312 [33.32]		0.329 [8.36]	0.494 [12.55]		0.233 [5.92]
15 F	1.541 [39.14]	0.971 [24.66]		1.312 [33.32]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
25 M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	0.494 [12.55]		0.230 [5.84]
25 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		0.329 [8.36]	0.494 [12.55]		0.230 [5.84]
37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
50 M	2.635 [66.93]		2.079 [52.81]	2.406 [61.11]		0.441 [11.20]	0.605 [15.37]		0.230 [5.84]
50 F	2.635 [66.93]	2.064 [52.43]		2.406 [61.11]	0.423 [10.74]		0.605 [15.37]	0.243 [6.17]	

JACKSCREW SYSTEMS
CODE E, E6, T AND T6

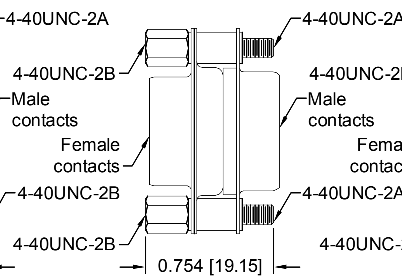
ROTATING MALE AND FEMALE JACKSCREWS	ROTATING MALE AND FEMALE POLARIZED JACKSCREWS	FIXED MALE AND FEMALE JACKSCREWS	FIXED MALE AND FEMALE POLARIZED JACKSCREWS
E	E6	T	T6



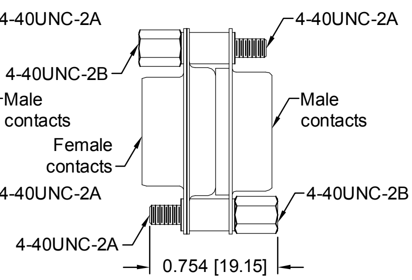
Example Part Number:
AD9FEX9M0X



Example Part Number:
AD9FE6X9M0X



Example Part Number:
AD9FTX9M0X



Example Part Number:
AD9FT6X9M0X

MATERIAL: Brass or steel with zinc plate and chromate seal or clear zinc plate or tin plate; stainless steel, passivated.

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 9

STEP	1	2	3	4	5	6	7	8	9	10		11
EXAMPLE	AD	9	F	S	X	9	M	S	X	/AA	—	-14

STEP 1 - BASIC SERIES

AD series - Open entry female contacts, nylon insulator
HAD series - PosiBand closed entry female contacts, DAP insulator.

Military plating options available.

STEP 2 - CONNECTOR VARIANT

9, 15, 25, 37, 50

STEP 3 - 1ST CONNECTOR GENDER

M - Male
F - Female

*1 STEP 4 - 1ST CONNECTOR MATING STYLE

0 - Swaged spacer 0.120 [3.05µ] mounting hole
S - Swaged spacer 4-40 UNC-2B threads
*3 E - Rotating male and female jackscrews (Select 0 in Step 8)
*3 E6 - Rotating male and female polarized jackscrew (Select 0 in Step 8)
*3 T - Fixed male and female jackscrews (Select 0 in Step 8)
*3 T6 - Fixed male and female polarized jackscrew (Select 0 in Step 8)

STEP 5 - 1ST CONNECTOR SHELL OPTION

0 - Zinc plated, with chromate seal.
*4 S - Stainless steel, passivated.
X - Tin plated.
Z - Tin plated and dimpled (male connectors only).

*2 STEP 6 - 2ND CONNECTOR VARIANT

9, 15, 25, 37, 50

STEP 7 - 2ND CONNECTOR GENDER

M - Male

*1 STEP 8 - 2ND CONNECTOR MATING STYLE

0 - Swaged spacer 0.120 [3.05µ] mounting hole
S - Swaged spacer 4-40 UNC-2B threads
*3 E - Rotating male and female jackscrews (Select 0 in Step 4)
*3 E6 - Rotating male and female polarized jackscrew (Select 0 in Step 4)
*3 T - Fixed male and female jackscrews (Select 0 in Step 4)
*3 T6 - Fixed male and female polarized jackscrew (Select 0 in Step 4)

STEP 9 - 2ND CONNECTOR SHELL OPTION

0 - Zinc plated, with chromate seal.
*4 S - Stainless steel, passivated.
X - Tin plated.
Z - Tin plated and dimpled (male connectors only).

STEP 10 - ENVIRONMENTAL COMPLIANCE OPTIONS

/AA - RoHS Compliant

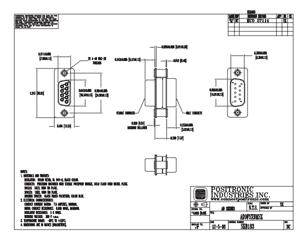
NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: AD9FSX9MSX

STEP 11 - SPECIAL OPTIONS

-14 - 0.000030 [0.76µ] gold over nickel.
-15 - 0.000050 [1.27µ] gold over nickel.

CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS

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-dimensional IGES, STEP, or SOLIDWORKS file.



2-D Drawing

3-D Model

*1 Connector mating style for both connectors must be the same if 0 or S is used. If E, E6, T or T6 is used in either Step 4 or 8 the other step must be 0.
*2 Connector variant for both connectors must be the same.
*3 For hardware information, see page 73.
*4 For stainless steel dimpled male versions contact Technical Sales.

DAD Series
Size 22
"Open Entry" or
PosiBand® "Closed Entry"
Contact Design

Connector Saver

DAD series connectors are suitable for use in any applications requiring high performance characteristic. The high density DAD series is available in six standard connector variants of 15, 26, 44, 62, 78 and 104 contacts.

DAD series connectors utilize precision machined contacts for strength and durability. The female contact features a rugged open entry design. Female PosiBand closed entry contacts can be chosen for even higher reliability, see page 1 for details.

DAD series connectors can be mated to a connector which would normally experience high numbers of mating cycles. The DAD connector can be easily replaced, "saving" a connector which is not easily replaced.

Connectors are available in standard density versions, see page 71.

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Polyester glass-filled per ASTM D5927, UL 94V-0.
Contacts:	Precision machined copper alloy.
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc plate with chromate seal, stainless steel passivated. Other materials and finishes available upon request.

Low magnetic versions are available, contact Technical Sales.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 22 contacts - male 0.030 inch [0.76 mm] mating diameter. Female contact: open entry or PosiBand closed entry design, see page 1 for details.
Connector Saver:	Male to female.
Contact Retention:	9 lbs. [40 N].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells.
Mechanical Operations:	500 operations, minimum, per IEC 60512-5 for open entry. 1000 operations, minimum, per IEC 60512-5 for closed entry.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:

Open Entry Contacts: 5 amperes nominal

Closed Entry Contacts, tested per UL 1977:

12 amperes, 2 contacts energized.
10 amperes, 6 contacts energized.
7.5 amperes, 26 contacts energized.
6.5 amperes, 62 contacts energized.
5.0 amperes, 104 contacts energized.

See temperature rise curves on page 2 for details.

Initial Contact Resistance:	0.010 ohms, maximum for open entry 0.005 ohms, maximum for closed entry
Proof Voltage:	1,000 V r.m.s.
Insulation Resistance:	5 G ohms.
Clearance and Creepage Distance:	0.042 inch [1.06 mm], minimum.
Working Voltage:	300 V r.m.s.

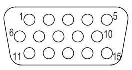
CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

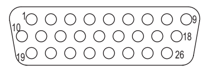
DAD SERIES SIZE 22 CONTACT CONNECTOR SAVER

CONTACT VARIANTS

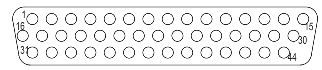
FACE VIEW OF MALE OR USE MIRROR IMAGE FOR FEMALE



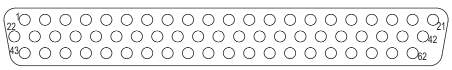
DAD 15



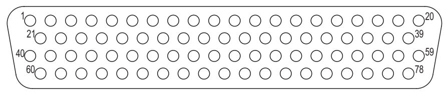
DAD 26



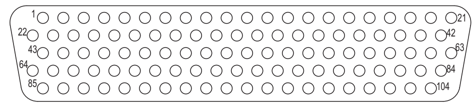
DAD 44



DAD 62



DAD 78

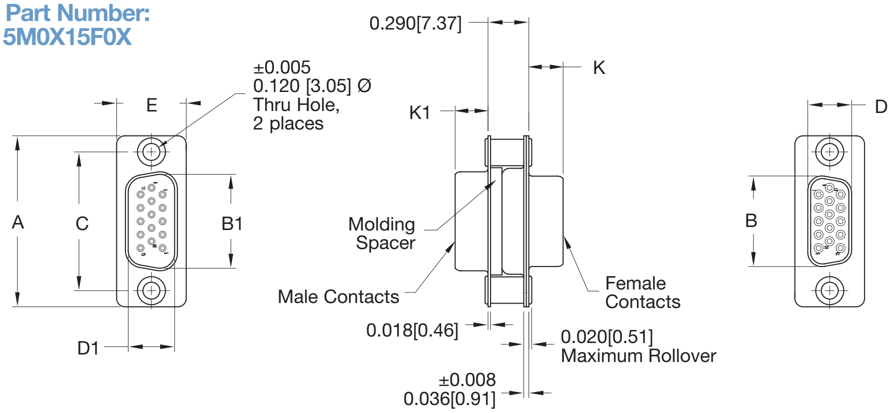


DAD 104

STANDARD SHELL ASSEMBLY DIMENSIONS

SIZE 22 CONTACTS

Typical Part Number:
DAD15M0X15F0X



CONNECTOR VARIANT SIZES	A ±0.015 [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D ±0.005 [0.13]	D1 ±0.005 [0.13]	E ±0.015 [0.38]	K ±0.005 [0.13]	K1 ±0.005 [0.13]
15 M	1.213 [30.81]		0.666 [16.92]	0.984 [24.99]		0.329 [8.36]	0.494 [12.55]		0.233 [5.92]
15 F 15 S	1.213 [30.81]	0.643 [16.33]		0.984 [24.99]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
26 M	1.541 [39.14]		0.994 [25.25]	1.312 [33.32]		0.329 [8.36]	0.494 [12.55]		0.233 [5.92]
26 F 26 S	1.541 [39.14]	0.971 [24.66]		1.312 [33.32]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
44 M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	0.494 [12.55]		0.230 [5.84]
44 F 44 S	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
62 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		0.329 [8.36]	0.494 [12.55]		0.230 [5.84]
62 F 62 S	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	0.311 [7.90]		0.494 [12.55]	0.243 [6.17]	
78 M	2.635 [66.93]		2.079 [52.81]	2.406 [61.11]		0.441 [11.20]	0.605 [15.37]		0.230 [5.84]
78 F 78 S	2.635 [66.93]	2.064 [52.43]		2.406 [61.11]	0.423 [10.74]		0.605 [15.37]	0.243 [6.17]	
104 M	2.729 [69.32]		2.212 [56.18]	2.500 [63.50]		0.503 [12.78]	0.668 [16.97]		0.230 [5.84]
104 F 104 S	2.729 [69.32]	2.189 [55.60]		2.500 [63.50]	0.485 [12.32]		0.668 [16.97]	0.243 [6.17]	

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 9

STEP	1	2	3	4	5	6	7	8	9	10		11
EXAMPLE	DAD	15	M	S	X	15	F	S	X	/AA	—	-14

STEP 1 - BASIC SERIES

DAD series

STEP 2 - CONNECTOR VARIANT

15, 26, 44, 62, 78, 104

STEP 3 - 1ST CONNECTOR GENDER

M - Male

*2 STEP 4 - 1ST CONNECTOR MATING STYLE

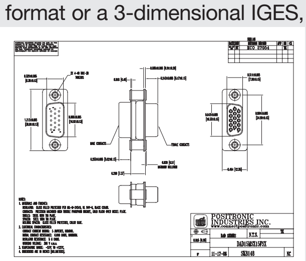
- 0 - Swaged spacer 0.120 [3.05µ] mounting hole
- S - Swaged spacer 4-40 UNC-2B threads
- *3 E - Rotating male and female jackscrews (Select 0 in Step 8)
- *3 E6 - Rotating male and female polarized jackscrew (Select 0 in Step 8)
- *3 T - Fixed male and female jackscrews (Select 0 in Step 8)
- *3 T6 - Fixed male and female polarized jackscrew (Select 0 in Step 8)

STEP 5 - 1ST CONNECTOR SHELL OPTION

- 0 - Zinc plated, with chromate seal.
- *5 S - Stainless steel, passivated.
- X - Tin plated.
- Z - Tin plated and dimpled (male connectors only).

*1 Male option available only on connector variant 78.
*2 Connector mating style for both connectors must be the same if 0 or S is used. If E, E6, T or T6 is used in either Step 4 or 8 the other step must be 0.
*3 For hardware information, see page 73.
*4 Connector variant for both connectors must be the same as in Step 2.
*5 For stainless steel dimpled male versions contact Technical Sales.

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-dimensional IGES, STEP, or SOLIDWORKS file.



2-D Drawing

3-D Model

STEP 11 - SPECIAL OPTIONS

- -14 - 0.000030 [0.76µ] gold over nickel.
- -15 - 0.000050 [1.27µ] gold over nickel.

CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS

STEP 10 - ENVIRONMENTAL COMPLIANCE OPTIONS

/AA - RoHS Compliant

NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: DAD15MSX15FSX

STEP 9 - 2ND CONNECTOR SHELL OPTION

- 0 - Zinc plated, with chromate seal.
- *5 S - Stainless steel, passivated.
- X - Tin plated.
- Z - Tin plated and dimpled (male connectors only).

**STEP 8 - 2ND CONNECTOR MATING STYLE

- 0 - Swaged spacer 0.120 [3.05µ] mounting hole
- S - Swaged spacer 4-40 UNC-2B threads
- *3 E - Rotating male and female jackscrews (Select 0 in Step 4)
- *3 E6 - Rotating male and female polarized jackscrew (Select 0 in Step 4)
- *3 T - Fixed male and female jackscrews (Select 0 in Step 4)
- *3 T6 - Fixed male and female polarized jackscrew (Select 0 in Step 4)

STEP 7 - 2ND CONNECTOR GENDER

- *1 M - Male
- F - Female - Professional Level - open entry contacts
- S - Female - Industrial Level - PosiBand closed entry contacts

Military plating options available.

*4 STEP 6 - 2ND CONNECTOR VARIANT

15, 26, 44, 62, 78, 104

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

APPLICATION TOOLS SECTION

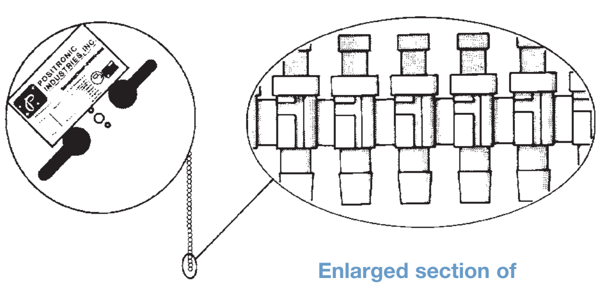
SD / RD / ORD / ODD / DD connectors are offered with removable crimp contacts. Positronic recognizes the importance of supplying application tooling to support our customers' use of our products.

Information on application tooling is available on our web site at

www.connectpositronic.com/design-tools/tooling

There you will find downloadable PDF cross reference charts for removable and compliant press-fit contacts. These charts will supply part numbers for insertion, removal and crimping tools, along with information regarding use of tools and techniques.

REELS FOR AUTOMATIC PNEUMATIC CRIMP TOOLS



Enlarged section of plastic contact carriers

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic pneumatic crimp tools, catalog part number 9550-1. 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 FC6020D2R for female contact.

CONTACT APPLICATION TOOLS CROSS REFERENCE LIST

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

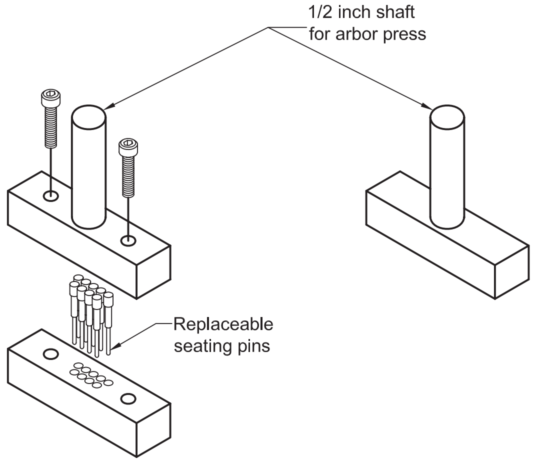
Series	Positronic Contact P/N	Handle & Positioner P/N	Hand Crimp Tool P/N	Mfg. Cross	Mil Equiv	Positioner	Mfg. Cross	Mil Equiv	Insertion Tool	Mfg. Cross	Mil Equiv	Removal Tool	Mfg. Cross	Mil Equiv	Automatic Crimp Tool *1 See Note
SD SERIES	**MC7520D**		9507-0-0-0	AFM8	M22520/2-01	9502-10-0-0	K694		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	MC7526D		9507-0-0-0	AFM8	M22520/2-01	9502-10-0-0	K694		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	MC7518D		9507-0-0-0	AFM8	M22520/2-01	9502-11-0-0	K774		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	FC7520D		9507-0-0-0	AFM8	M22520/2-01	9502-10-0-0	K694		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC7526D		9507-0-0-0	AFM8	M22520/2-01	9502-10-0-0	K694		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC7518D		9507-0-0-0	AFM8	M22520/2-01	9502-11-0-0	K774		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
RD SERIES	**MC6020D**		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	MC6026D		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	MC6018D		9507-0-0-0	AFM8	M22520/2-01	9502-11-0-0	K774		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	M39029/63-368		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	FC6020D2		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC6026D2		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC6018D2		9507-0-0-0	AFM8	M22520/2-01	9502-11-0-0	K774		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	M39029/64-369		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	MC602*D** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC602*D2** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
ORD SERIES	**MC6020D**		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	MC6018D		9507-0-0-0	AFM8	M22520/2-01	9502-11-0-0	K774		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	MC6026D		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC6020D2		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC6026D2		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC6120D		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC6118D		9507-0-0-0	AFM8	M22520/2-01	9502-11-0-0	K774		M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	
	MC602*D** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
	FC602*D2** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-5-0-0	K13-1	M22520/2-08	M81969/1-02	91067-2	M81969/1-02	M81969/1-02	91067-2	M81969/1-02	9550-1-0-0
ODD SERIES	**MC8022D**		9507-0-0-0	AFM8	M22520/2-01	9502-4-0-0	K-42	M22520/2-09	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	MC8020D		9507-0-0-0	AFM8	M22520/2-01	9502-29-0-0	K1665		M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	MS8122D								M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	FC8022D2		9507-0-0-0	AFM8	M22520/2-01	9502-3-0-0	K-41	M22520/2-06	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	FC8122D		9507-0-0-0	AFM8	M22520/2-01	9502-3-0-0	K-41	M22520/2-06	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	FC8120D		9507-0-0-0	AFM8	M22520/2-01	9502-29-0-0	K1665		M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	FS8022D2								M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	FS8122D								M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	MC8022D** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-4-0-0	K-42	M22520/2-09	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	FC8022D2** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-3-0-0	K-41	M22520/2-06	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
DD SERIES	**MC8022D**		9507-0-0-0	AFM8	M22520/2-01	9502-4-0-0	K-42	M22520/2-09	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	MC8020D		9507-0-0-0	AFM8	M22520/2-01	9502-29-0-0	K1665		M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	MS8022D								M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	M39029/58-360		9507-0-0-0	AFM8	M22520/2-01	9502-4-0-0	K-42	M22520/2-09	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	FC8022D2		9507-0-0-0	AFM8	M22520/2-01	9502-3-0-0	K-41	M22520/2-06	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	FC8020D2		9507-0-0-0	AFM8	M22520/2-01	9502-29-0-0	K1665								
	FS8022D2								M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	M39029/57-354		9507-0-0-0	AFM8	M22520/2-01	9502-3-0-0	K-41	M22520/2-06	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	
	MC8022D** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-4-0-0	K-42	M22520/2-09	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0
	FC8022D2** thermocouple		9507-0-0-0	AFM8	M22520/2-01	9502-3-0-0	K-41	M22520/2-06	M81969/1-04	91067-1	M81969/1-04	M81969/1-04	91067-1	M81969/1-04	9550-1-0-0

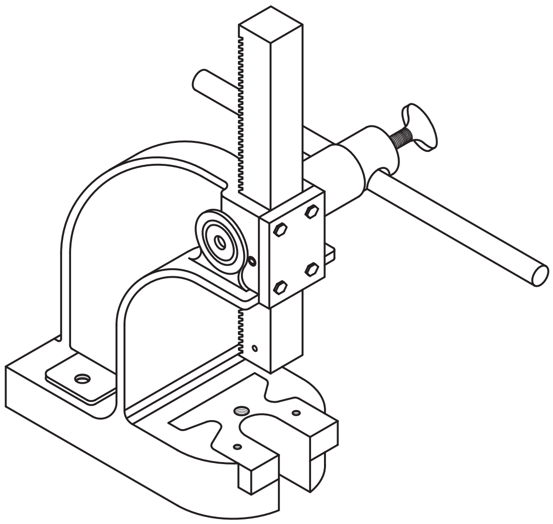
*1 All male and female crimp contacts can be ordered on reels in quantities of 2,000 by adding letter "R" after the contact part number, see page 78 for more information.

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

COMPLIANT PRESS-FIT CONNECTORS INSTALLATION TOOLS

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS





Arbor Press

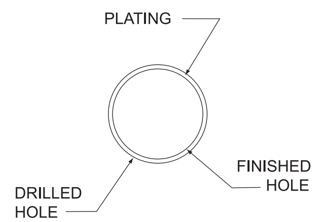
POSITRONIC RECOMMENDED TOOLS FOR PCD SERIES AND PCDD SERIES CONNECTORS AND CONTACTS		
SERIES	CONNECTOR SEATING	
	MALE	FEMALE
PCD 9	9512-1-0-41	9512-6-0-41
PCD 15	9512-2-0-41	9512-7-0-41
PCD 25	9512-3-0-41	9512-8-0-41
PCD 37	9512-4-0-41	9512-9-0-41
PCD 50	9512-5-0-41	9512-10-0-41
PCDD 15	9512-1-0-41	9512-11-0-41
PCDD 26	9512-2-0-41	9512-12-0-41
PCDD 44	9512-3-0-41	9512-13-0-41
PCDD 62	9512-4-0-41	9512-14-0-41
PCDD 78	9512-5-0-41	9512-15-0-41
PCDD 104	9512-16-0-41	9512-17-0-41
Arbor press for connector seating tools-9530-1-0 1 ton capacity 4 inch throat		
PCD series - Replacement pins for connector seating tools. Female - 855-658-0-41		
PCDD series - Replacement pins for connector seating tools. Female - 855-751-0-41		

SUGGESTED PRINTED BOARD HOLE SIZES FOR COMPLIANT PRESS-FIT TERMINATION

Traditionally, tin-lead has been a popular plating for printed circuit board (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 below.

OMEGA COMPLIANT PRESS-FIT CONTACT HOLE				
BOARD TYPE	CONTACT SIZE / TYPE	RECOMMENDED DRILL HOLE SIZE	RECOMMENDED PLATING	FINISHED HOLE SIZES
TIN-LEAD SOLDER PCB	22 OMEGA	ø0.0453±0.0010 [ø1.150±0.025]	0.0006 [15µ] minimum solder over 0.0010 [25µ] min. copper	ø0.0394+0.0035-0.0024 [ø1.000+0.090-0.060]
	20 OMEGA	ø0.0453±0.0010 [ø1.150±0.025]		ø0.0394+0.0035-0.0024 [ø1.000+0.090-0.060]
RoHS PCB PLATING OPTIONS				
COPPER PCB	22 OMEGA	ø0.047±0.001 [ø1.19±0.025]	0.0010 [25µ] min. copper	ø0.043±0.002 [ø1.09±0.05]
	20 OMEGA	ø0.047±0.001 [ø1.19±0.025]		ø0.043±0.002 [ø1.09±0.05]
IMMERSION TIN PCB	22 OMEGA	ø0.047±0.001 [ø1.19±0.025]	0.000033±0.000006 [0.85±0.15µ] immersion tin over 0.0010 [25µ] min. copper	ø0.043±0.002 [ø1.09±0.05]
	20 OMEGA	ø0.047±0.001 [ø1.19±0.025]		ø0.043±0.002 [ø1.09±0.05]
IMMERSION SILVER PCB	22 OMEGA	ø0.047±0.001 [ø1.19±0.025]	0.000013±0.000007 [0.34±0.17µ] immersion silver over 0.0010 [25µ] min. copper	ø0.043±0.002 [ø1.09±0.05]
	20 OMEGA	ø0.047±0.001 [ø1.19±0.025]		ø0.043±0.002 [ø1.09±0.05]
ELECTROLESS NICKEL / IMMERSION GOLD PCB	22 OMEGA	ø0.047±0.001 [ø1.19±0.025]	0.000002 [0.05µ] min. immersion gold over 0.000177±0.000059 [4.5±1.5µ] electroless nickel per IPC-4552 over 0.0010 [25µ] min. copper	ø0.043±0.002 [ø1.09±0.05]
	20 OMEGA	ø0.047±0.001 [ø1.19±0.025]		ø0.043±0.002 [ø1.09±0.05]

"Omega" Termination



COMPLIANT PRESS-FIT TERMINATION CONTACT HOLE

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

COMPLIANT PRESS-FIT USER INFORMATION

When properly used, Positronic Omega signal compliant press-fit terminations provide reliable service even under severe conditions.

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

1. Inexpensive installation tooling is available from Positronic, to choose the proper installation tool refer to page 83 for part number ordering information.
2. Insert the connector into the printed circuit board or backplane and seat connector fully.
3. Secure the connector to the printed circuit board or backplane using two self-tapping screws. The screws should be 4-40 threads supplied by customer.

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

Positronic® offers a variety of QPL connector products

D-SUBMINIATURE CONNECTORS

MIL PREFIX	POSITRONIC SERIES
MIL-DTL-24308/1	HDC
MIL-DTL-24308/2	RD, DD
MIL-DTL-24308/3	HDC
MIL-DTL-24308/4	RD, DD
MIL-DTL-24308/5	HDC
MIL-DTL-24308/6	RD, DD
MIL-DTL-24308/7	HDC
MIL-DTL-24308/8	RD, DD
MIL-DTL-24308/23	HDC, DD

MIL PREFIX	POSITRONIC SERIES
MIL-DTL-24308/24	HDC, DD
MIL-DTL-24308/25	HDC, RD, DD
MIL-DTL-24308/26	HDC, RD, DD
GSFC S-311-P4	SND, SDD, SCBC, SCBM
GSFC S-311-P10	SND, SCBM
SAE AS39029/57	DD
SAE AS39029/58	DD
SAE AS39029/63	RD
SAE AS39029/64	RD

RECTANGULAR CONNECTORS

MIL PREFIX	POSITRONIC SERIES
MIL-DTL-28748/3	GMCT
MIL-DTL-28748/4	GMCT
MIL-DTL-28748/5	GM
MIL-DTL-28748/6	GM
MIL-DTL-28748/7	SGM

MIL PREFIX	POSITRONIC SERIES
MIL-DTL-28748/8	SGM
MIL-C-28748/13	SGMC
MIL-C-28748/14	SGMC
SAE AS39029/34	SGMC, GMCT
SAE AS39029/35	SGMC, GMCT

For a complete QPL listing available to download in PDF format, visit the desired connector family home page and click on link "Qualified Product Listing (PDF)" on our website at:

www.connectpositronic.com

or enter the URL link below to download the QPL PDF file

www.connectpositronic.com/qpl/catalog

Other D-subminiature Products

Positronic offers full line of D-subminiature connectors in a wide variety of contact variants and package sizes with compliant press-fit, solder and cable terminations. All Positronic connector products provide quality, reliability, and flexibility.

HIGH PERFORMANCE D-SUBMINIATURE CONNECTORS

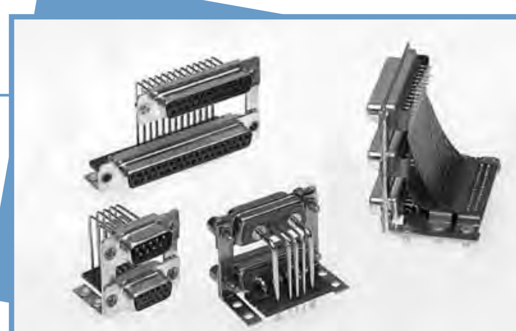
Standard and high density connectors manufactured to MIL-PRF-24308, Class M; Goddard Space Flight Center S-311-P-4 and Goddard Space Flight Center S-311-P-10.

ENVIRONMENTAL-D CONNECTORS

Standard and high density connectors with environmental protection features to IP67. Straight and right angle (90°), and cable terminations available.

COMBO-D CONNECTORS

Connectors with signal, shielded, power, thermocouple or high voltage contacts in a single package. Power compliant press-fit terminations now available.



DUAL PORT CONNECTORS

Right angle (90°) p.c. board mount connectors assembled stacked to maximize real estate; contact variants 9 through 62; available in standard density, high density, and mixed density.

Connector Excellence®

Positronic HIGH RELIABILITY Products

POWER

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: 0, 8, 12, 16, 20, 22 and 24
Current Ratings: To 200 amperes per contact
Terminations: Crimp and fixed cable connector, straight solder, right angle (90°) solder, straight compliant press-in and right angle (90°) compliant press-in
Configurations: Multiple variants in a variety of package sizes
Compliance: PICMG 2.11, PICMG 3.0, VITA 41, DSCC, GSFC S-311-P-4, GSFC S-311-P-10

D-SUBMINIATURE

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

Contact Sizes: 8, 16, 20 and 22
Current Ratings: To 100 amperes
Terminations: Crimp, wire solder, straight solder, right angle (90°) solder, straight compliant press-in and right angle (90°) compliant press-in
Configurations: Multiple variants in both standard and high densities, seven connector housing sizes
Qualifications: MIL-DTL-24308, GSFC S-311-P-4, GSFC S-311-P-10, SAE AS39029, DSCC

RECTANGULAR

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

Contact Sizes: 16, 20 and 22
Current Ratings: To 13 amperes nominal
Terminations: Crimp, wire solder, straight solder, right angle (90°) solder, and straight compliant press-in
Configurations: Multiple variants in both standard and high densities, thirty package sizes
Qualifications: MIL-DTL-28748, SAE AS39029, CCITT V.35

CIRCULAR

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: 12, 16, 20 and 22
Current Ratings: To 25 amperes nominal
Terminations: Crimp, wire solder, straight solder, and right angle (90°) solder
Configurations: Multiple variants in four package sizes
Qualifications: Environmental protection to IP67

CABLE

FEATURES:

- Shorten the supply chain and reduce additional costs and delays by "cablizing" your Positronic connector selection
- Overmolding available
- Shielded and environmentally sealed versions available
- Power cables and access boxes which meet the SAE J2496 specification

✔ Design assemblies in accordance with customer specifications.
✔ Prepare wire harness connector configuration and performance specifications.
✔ Design each system in accordance with applicable customer, domestic, and international standards.
✔ Define and conduct performance and verification testing.

HERMETIC

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

Contact Sizes: 8, 12, 16, 20 and 22
Current Ratings: To 40 amperes nominal
Terminations: Feedthrough is standard; flying leads and board mount available upon request
Configurations: See D-subminiature and circular configurations above
Compliance: Space-D32

For more information, **visit www.connectpositronic.com** or call your nearest Positronic sales office listed on the back of this catalog.

LOCATIONS

For most current sales office information, please visit www.connectpositronic.com/locations

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