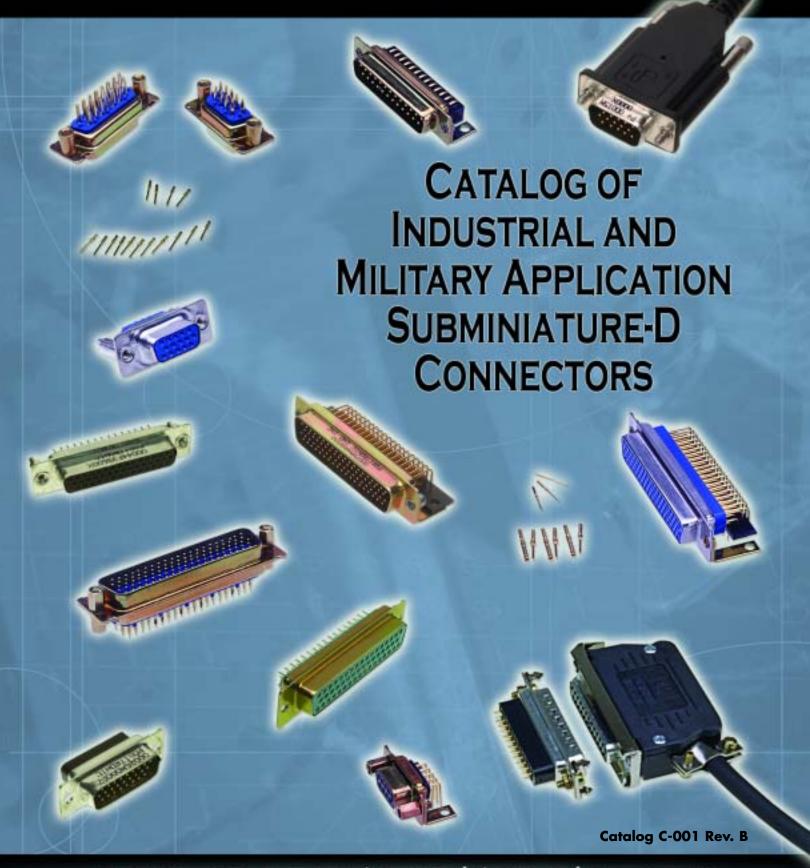
Positronic



Industries



www.connectpositronic.com



ABOUT US

Founded in 1966, Positronic Industries is a vertically integrated manufacturer of high quality interconnect products. Positronic has earned the worldwide reputation as a service oriented, quick-reaction, top quality connector supplier. We are committed to maintaining this reputation by continuous implementation of our **Complete Capability** concept.

COMPLETE CAPABILITY

Design & Development

- Designs new connectors and modifies existing connectors to meet industry requirements
- · Continuously conducts marketing studies to identify industry needs for new products
- Ongoing interest in unique connector designs

Tooling

- Tooling support for all manufacturing areas within company
- Provides 80% of new tooling, punch press dies, molds, jigs and fixtures used at Positronic factory locations worldwide

Machining

- · Automatic screw machines produce finely crafted contacts and hardware for connector bodies
- Trained technicians operate machines from Tornos, Bechler and Brown & Sharpe

Molding

- · Molds all plastic connector components such as insulators, hoods, angle brackets and more
- Overmold capability available

Plating

- Applies gold and other metal finishes to connector components to any required thickness
- Plating conforms to all military specifications

Quality Assurance Lab

- Quality assurance system certified to ISO 9001
- Maintains aggressive TQM program
- Able to test to IEC, EIA, UL, MIL-DTL-24308, MIL-DTL-28748, MIL-C-39029 and MIL-C-85049 requirements

Finished Stock Inventory

- Each main factory location maintains a large inventory of connector components and accessories
- Same day shipments available on many standard connector products
- · Stocking agreements available for qualified customers

Worldwide Sales & Service

- Responsive attitude toward customer needs
- Fully trained sales staff located worldwide



Machining



Molding



Finished Stock Inventory

Products described within this catalog may be protected by one or more of the following US. patents:

#4,721,472 #4,900,261 #5,255,580 #5,329,697 #6,260,268

Patented in Canada, 1992

Unless specified otherwise, 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.
- 5] ±0.0015 inches [0.038 mm] for all press-fit contact terminations.

Positronic Industries believes the data contained herein to be reliable. Since the technical information is given free of charge, the User employs such information at his own discretion and risk. Positronic Industries assumes no responsibility for results obtained or damages incurred from use of such information in whole or in part.











CONNECTOR DESCRIPTIONS

MELO-D and EURO-D CONNECTORS

MD Series and ED Series. Fixed contact, 7.5 ampere nominal rating. Solder cup, wrap post, and printed board contact terminations for inch and metric printed board hole patterns. Six connector variants, 9 through 50 contacts. Professional quality connectors to IEC 807-2, Performance Level Two.

SOLI-D CONNECTORS

SD Series. Removable contact, 7.5 ampere nominal rating. Solder cup, crimp and straight printed board mount contact terminations. Five connector variants, 9 through 50 contacts. Professional quality connectors to IEC 807-3, Performance Level Two.

DENSI-D CONNECTORS

DD Series. Removable contact, five ampere nominal rating. Solder cup, crimp and straight and 90° printed board contact terminations. Six connector variants, 15 through 104 contacts. Military quality connectors qualified to MIL-DTL-24308 and MIL-C-39029.

LOW COST HIGH DENSITY CONNECTORS

ODD Series. Removable contact, five ampere nominal rating. Solder cup, crimp and straight and 90° printed board contact terminations. Six connector variants, 15 through 104 contacts. Professional quality connectors.

RHAPSO-D CONNECTORS

RD Series. Removable contact, 7.5 ampere nominal rating. Crimp contact terminations. Six connector variants, 9 through 50 contacts. Military quality connectors qualified to MIL-DTL-24308 and MIL-C-39029. IEC 807-3, Performance Level One.

LOW COST STANDARD DENSITY CONNECTORS

ORD Series. Removable contact, 7.5 ampere nominal rating. Crimp contact terminations. Six connector variants, 9 through 50 contacts. Professional quality connectors.

HARMO-D CONNECTORS

HDC Series. Fixed contact, 7.5 ampere nominal rating. Solder cup, wrap post and straight and 90° printed board contact terminations. Five connector variants, 9 through 50 contacts. Military quality connectors qualified to MIL-DTL-24308, IEC 807-2, Performance Level One.

PRESS-FIT CONNECTORS

PCD Series. Machined contact, compliant termination, repairable, 7.5 ampere nominal rating. Five connector variants, 9 through 50 contacts. Professional quality connectors, conform to IEC 807-2. Performance Level Two.

HIGH DENSITY PRESS-FIT CONNECTORS

PCDD Series. Machined contact, compliant termination, repairable, 5 ampere nominal rating. Five connector variants, 15 through 104 contacts. Professional quality connectors.

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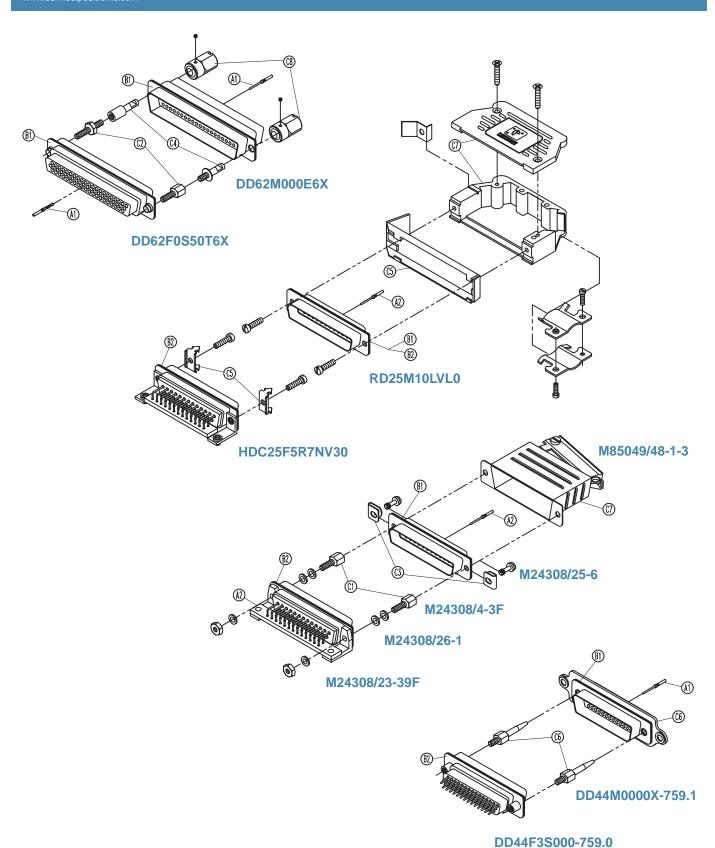
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EXPLODED VIEWS OF TYPICAL MATED SUBMINIATURE-D CONNECTOR ASSEMBLIES

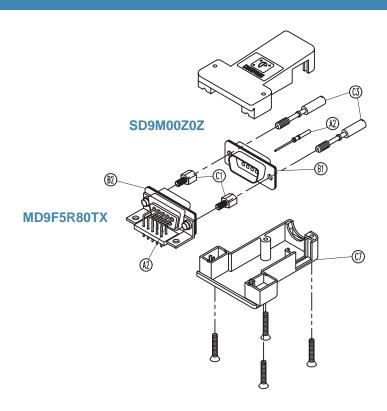
D-Sub



D-Sub

EXPLODED VIEWS OF TYPICAL MATED SUBMINIATURE-D CONNECTOR ASSEMBLIES





CONNECTOR COMPONENT DESCRIPTION AND TERMINOLOGY

- A-1 Male and female signal contacts, size 22. Terminations may be crimp, solder cup and printed board mount.
- A-2 Male and female signal contacts, size 20. Terminations may be crimp, solder cup, wrap post, press-fit and printed board mount.
- Unloaded connector insulators, male and female. Insulator retention system retains all contact termination types. Insulator may be used as a free or fixed connector.
- B-2 Loaded connector insulators, male and female. Insulators may be preloaded per customer requirements with contacts having terminations of 90° or straight solder printed board mount, wrap post, solder cup and press-fit. Insulator contact positions may be selectively loaded with contacts. Connectors are normally fixed panel or printed board connectors.
- C-1 Fixed female jackscrews are the stationary threaded members of the non-polarized jackscrew system.
- C-2 Fixed male and female jackscrews are the stationary threaded members of the polarized jackscrew system.
- C-3 Rotating male jackscrews and screwlocks are the rotating threaded members of the non-polarized jackscrew system.
- C-4 Rotating male and female jackscrews are the rotating threaded members of the polarized jackscrew system.
- C-5 Vibration locking system consists of lock tabs on fixed connector and slide lock lever on free cable connector.
- C-6 Blind mating connector system with pilot probes on free connector and receptacle guides on panel mounted fixed connector.
- C-7 Cable adapters [Hoods] are used on the free cable connector to provide cable support and contact protection.
- C-8 Knobs of the polarized rotating jackscrew system are affixed to the rotating jackscrew by a set screw.





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PROFESSIONAL QUALITY. FIXED CONTACT SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

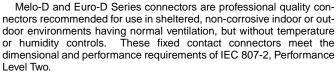
Size 20 Contacts, Fixed **Professional Quality** Connectors

IEC Publication 807-2 Performance Level Two

U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14098



Melo-D and Euro-D Series connectors utilize precision machined contacts which are fixed within the connector body. The female contact is an open entry design contact, precision machined of high tensile phosphor bronze.

Six standard connector variants are offered in arrangements of 9, 15, 25, 29, 37 and 50 contacts. Each Melo-D connector variant is avail-



able with contact terminations for solder cup, wrap post, and straight and 90° printed board mount terminations featuring a choice of three printed board footprints. Each Euro-D connector variant is available with contact terminations for solder cup, wrap post and straight and 90° printed board mount terminations per standard European metric footprints. Melo-D and Euro-D Series connectors are mateable and compatible with all D-Subminiature connectors conforming to IEC 807-2 and MIL-DTL-24308.

A wide assortment of printed board mounting hardware, cable support hoods and locking systems is available from stock.

Melo-D and Euro-D Series connectors conform to EIA RS 232 and RS 449, and CCITT X.24 interface connector requirements.

MELO-D/EURO-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Nylon resin, UL 94V-0, black color.

Contacts: Male contacts - precision machined

brass. Female contacts – precision machined high tensile phosphor bronze.

Contact Plating: Professional performance Gold flash over

nickel plate. Other finishes available upon

Steel with tin plate; zinc plate with dichro-Shells:

mate seal. Other materials and finishes

available upon request.

Mounting Spacers

and Brackets:

Nylon plastic, or brass with tin plate; zinc

plate with dichromate seal.

Push-On Fasteners: Phosphor bronze or beryllium copper with

tin plate.

Jackscrew Systems: Steel with zinc plate and dichromate seal,

or clear zinc plate.

Vibration Lock Systems: Slide lock and lock tabs, steel with nickel

Thermoplastic UL 94V-0. Composite, Hoods:

brass or steel with zinc plate and dichro-

mate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal.

Initial Contact

Resistance: 0.008 ohms maximum.

5 G ohms. Insulator Resistance: **Proof Voltage:** 1000 V r.m.s.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm].

Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS: Temperature Range: -55°C to +125°C.

Damp Heat, Steady

3 State: 10 days.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 20 contact, male contact - 0.040 inch

[1.02mm] diameter. Female contact

rugged open entry design.

Contact Retention In Insulator: 6 lbs. [27N]

Resistance To Solder

Iron Heat:

Euro-D

 500°F [260°C] for 10 seconds duration per IEC 512-6.

Contact Terminations:

Contact Terminations:

Solder cup contacts - 0.042 inch [1.06mm] minimum hole diameter for 20 AWG

[0.5mm²] wire maximum.

Straight Printed Board Mount - 0.028 inch

[0.71mm] diameter.

90° Printed Board Mount - 0.028 inch

[0.71mm] diameter for all printed board

footprints.

Wrap Post – 0.025 inch [0.64mm] square.

Solder cup contacts -0.042 inch [1.06mm] minimum hole diameter for 20 AWG [0.5mm²] wire maximum.

Straight Printed Board Mount - 0.024 inch

[0.60mm] diameter.

90° Printed Board Mount - 0.024 inch [0.60mm] diameter for European Metric

Footprints.

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and polarized

jackscrews.

Mounting To Angle Brackets: Jackscrews and riveted fasteners with a

0.120 inch [3.05mm] clearance hole, and threaded riveted fasteners with 4-40 threads and nylon lock inserts.

Mounting To Printed Board: Rapid installation push-on fasteners and

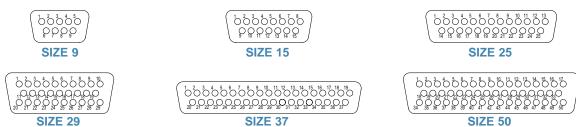
Locking Systems: Jackscrews and vibration locking systems.

500 operations minimum per IEC 512-5. **Mechanical Operations:**

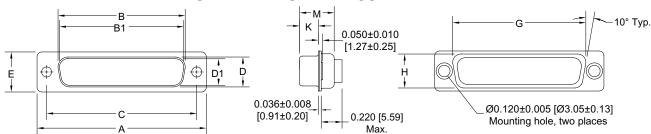


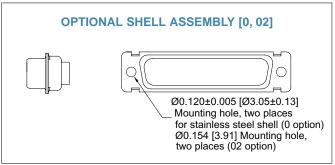
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

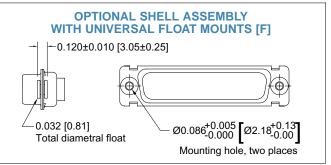
CONTACT VARIANTS FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY





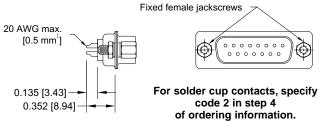


CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 ±0.005 [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	G <u>±0.010</u> [0.25]	H <u>±0.010</u> [0.25]	K <u>±0.005</u> [0.13]	M <u>±0.010</u> [0.25]
9 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
15 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.083</u> [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
25 M	2.088 [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
25 F	2.088 [53.04]	<u>1.511</u> [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
29 M	1.770 [44.96]		1.274 [32.36]	1.534 [38.96]		<u>0.450</u> [11.43]	<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.217</u> [5.51]	<u>0.426</u> [10.82]
29 F	1.770 [44.96]	<u>1.251</u> [31.78]		1.534 [38.96]	<u>0.431</u> [10.95]		<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.237</u> [6.02]	<u>0.429</u> [10.90]
37 M	2.729 [69.32]		<u>2.182</u> [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
50 M	2.635 [66.93]		2.079 [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
50 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

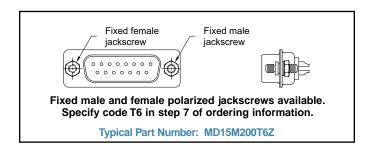


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

SOLDER CUP CONNECTOR



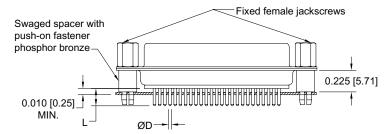




STRAIGHT PRINTED BOARD MOUNT CONNECTOR

CODE NUMBER	٦	ØD
3	<u>0.150</u> [3.81]	<u>0.028</u> [0.71]
32	<u>0.375</u> [9.53]	<u>0.028</u> [0.71]
36	<u>0.236</u> [5.99]	<u>0.024</u> [0.61]

For straight printed board mount contacts, specify code number in step 4 of ordering information.



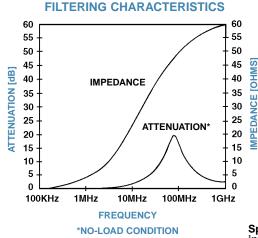
Typical Part Number: MD25F3S60T0

FERRITE INDUCTOR BAR FOR EMI/RFI NOISE SUPPRESSION

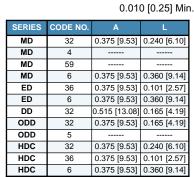
Swaged spacer with push-on fastener phosphor bronze —

STRAIGHT PRINTED BOARD MOUNT CONNECTOR

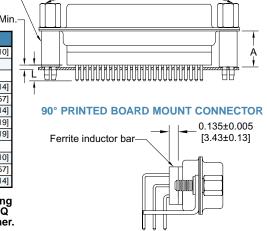
Fixed female jackscrews



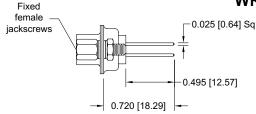
MATERIAL: NICKEL ZINC CERAMIC.



Specify code F or Q in step 6 of ordering information. F for ferrite inductor and Q for ferrite inductor with push-on fastener.



WRAP POST CONNECTOR



For wrap post contacts, specify code 6 in step 4 of ordering information.

Typical Part Number: MD15F600T20

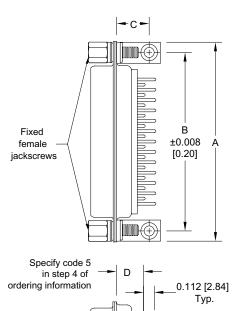




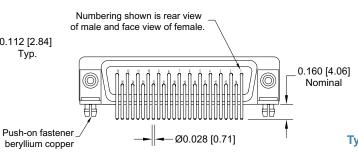
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

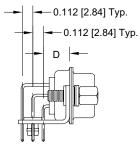
90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.283 [7.19] CONTACT EXTENSION



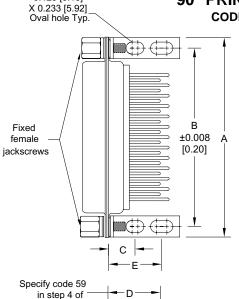
MD**5R4*** 0.283 [7.19] CONTACT EXTENSION								
PART NUMBER	Α	В	С	D				
MD9*5R4***	<u>1.204</u>	<u>0.984</u>	<u>0.339</u>	<u>0.283</u>				
	[30.58]	[24.99]	[8.61]	[7.19]				
MD15*5R4***	<u>1.532</u>	<u>1.312</u>	<u>0.339</u>	<u>0.283</u>				
	[38.91]	[33.32]	[8.61]	[7.19]				
MD25*5R4***	2.072	<u>1.852</u>	<u>0.339</u>	<u>0.283</u>				
	[52.63]	[47.04]	[8.61]	[7.19]				
MD29*5R4***	<u>1.754</u>	<u>1.534</u>	<u>0.395</u>	<u>0.283</u>				
	[44.55]	[38.96]	[10.03]	[7.19]				
MD37*5R4***	<u>2.720</u>	2.500	<u>0.339</u>	<u>0.283</u>				
	[69.09]	[63.50]	[8.61]	[7.19]				
MD50*5R4***	2.626	<u>2.406</u>	<u>0.395</u>	<u>0.283</u>				
	[66.70]	[61.11]	[10.03]	[7.19]				





Typical Part Number: MD50M5R4NT2X

90° PRINTED BOARD MOUNT CONNECTOR **CODE 59, 0.545 [13.84] CONTACT EXTENSION**



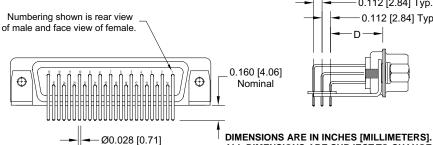
0.112 [2.84] Тур.

Typical Part Number:

MD25M5R4NT2X

0.125 [3.18]

MD**59B*** 0.545 [13.84] CONTACT EXTENSION									
PART NUMBER	Α	В	С	D	ш				
MD9*59B***	1.204	<u>0.984</u>	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>				
	[30.58]	[24.99]	[6.99]	[13.84]	[15.27]				
MD15*59B***	1.532	1.312	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>				
	[38.91]	[33.32]	[6.99]	[13.84]	[15.27]				
MD25*59B***	2.072	<u>1.852</u>	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>				
	[52.63]	[47.04]	[6.99]	[13.84]	[15.27]				
MD29*59B***	1.754	1.534	<u>0.275</u>	<u>0.545</u>	<u>0.657</u>				
	[44.55]	[38.96]	[6.99]	[13.84]	[16.69]				
MD37*59B***	<u>2.720</u>	2.500	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>				
	[69.09]	[63.50]	[6.99]	[13.84]	[15.27]				
MD50*59B***	2.626	<u>2.406</u>	<u>0.275</u>	<u>0.545</u>	<u>0.657</u>				
	[66.70]	[61.11]	[6.99]	[13.84]	[16.69]				



Typical Part Number: MD29M59B0T2X 0.112 [2.84] Typ. 0.112 [2.84] Typ.

ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Typical Part Number: MD25M59B0T2X

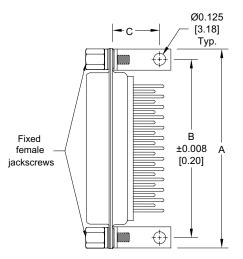
ordering information



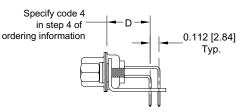
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

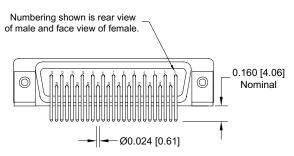
CODE 4, 0.450 [11.43] CONTACT EXTENSION

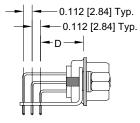


MD**4B*** 0.450 [11.43] CONTACT EXTENSION								
PART NUMBER	Α	В	С	D				
MD9*4B***	<u>1.204</u>	<u>0.984</u>	<u>0.506</u>	<u>0.450</u>				
	[30.58]	[24.99]	[12.85]	[11.43]				
MD15*4B***	<u>1.532</u>	1.312	<u>0.506</u>	<u>0.450</u>				
	[38.91]	[33.32]	[12.85]	[11.43]				
MD25*4B***	2.072	<u>1.852</u>	<u>0.506</u>	<u>0.450</u>				
	[52.63]	[47.04]	[12.85]	[11.43]				
MD29*4B***	<u>1.754</u>	1.534	<u>0.562</u>	<u>0.450</u>				
	[44.55]	[38.96]	[14.27]	[11.43]				
MD37*4B***	<u>2.720</u>	2.500	<u>0.506</u>	<u>0.450</u>				
	[69.09]	[63.50]	[12.85]	[11.43]				
MD50*4B***	<u>2.626</u>	<u>2.406</u>	<u>0.562</u>	<u>0.450</u>				
	[66.70]	[61.11]	[14.27]	[11.43]				



Typical Part Number: MD25M4B0T20

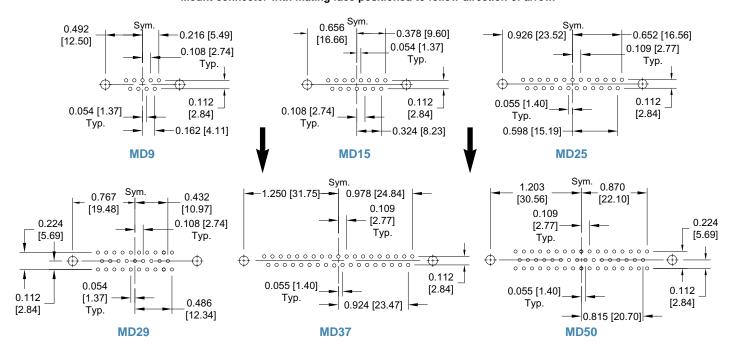




Typical Part Number: MD50M4B0T20

90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

Mount connector with mating face positioned to follow direction of arrow.

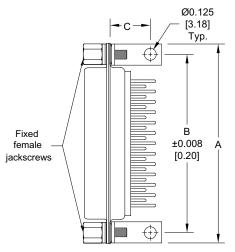




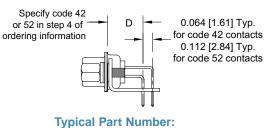
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

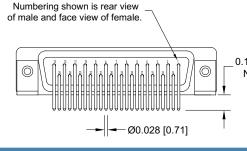
CODE 42 AND 52, 0.370 [9.40] CONTACT EXTENSION

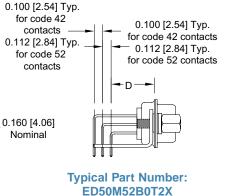


ED***B*** 0.370 [9.40] CONTACT EXTENSION									
PART NUMBER	Α	В	С	D					
ED9**B***	<u>1.204</u>	<u>0.984</u>	<u>0.420</u>	<u>0.370</u>					
	[30.58]	[24.99]	[10.67]	[9.40]					
ED15**B***	<u>1.532</u>	<u>1.312</u>	<u>0.420</u>	<u>0.370</u>					
	[38.91]	[33.32]	[10.67]	[9.40]					
ED25**B***	2.072	<u>1.852</u>	<u>0.420</u>	<u>0.370</u>					
	[52.63]	[47.04]	[10.67]	[9.40]					
ED29**B***	<u>1.754</u>	1.534	<u>0.470</u>	<u>0.370</u>					
	[44.55]	[38.96]	[11.94]	[9.40]					
ED37**B***	<u>2.720</u>	2.500	<u>0.420</u>	<u>0.370</u>					
	[69.09]	[63.50]	[10.67]	[9.40]					
ED50**B***	2.626	<u>2.406</u>	<u>0.470</u>	<u>0.370</u>					
	[66.70]	[61.11]	[11.94]	[9.40]					



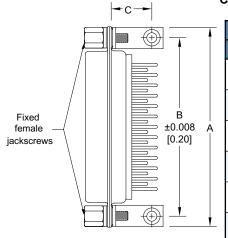
ED25M42B0T2X



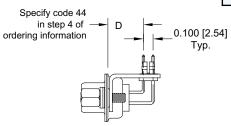


90° PRINTED BOARD MOUNT CONNECTOR

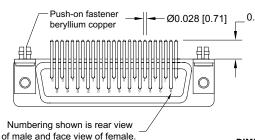
CODE 44, 0.370 [9.40] CONTACT EXTENSION

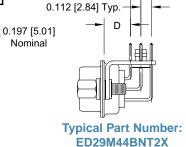


ED**44B*** 0.370 [9.40] CONTACT EXTENSION								
PART NUMBER	Α	В	С	D				
ED9*44B***	1.204	<u>0.984</u>	<u>0.420</u>	<u>0.370</u>				
	[30.58]	[24.99]	[10.67]	[9.40]				
ED15*44B***	<u>1.532</u>	<u>1.312</u>	<u>0.420</u>	<u>0.370</u>				
	[38.91]	[33.32]	[10.67]	[9.40]				
ED25*44B***	2.072	<u>1.852</u>	<u>0.420</u>	<u>0.370</u>				
	[52.63]	[47.04]	[10.67]	[9.40]				
ED29*44B***	<u>1.754</u>	<u>1.534</u>	<u>0.470</u>	<u>0.370</u>				
	[44.55]	[38.96]	[11.94]	[9.40]				
ED37*44B***	<u>2.720</u>	2.500	<u>0.420</u>	<u>0.370</u>				
	[69.09]	[63.50]	[10.67]	[9.40]				
ED50*44B***	<u>2.626</u>	<u>2.406</u>	<u>0.470</u>	<u>0.370</u>				
	[66.70]	[61.11]	[11.94]	[9.40]				



Typical Part Number: ED25M44BNT2X





0.112 [2.84] Typ.

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

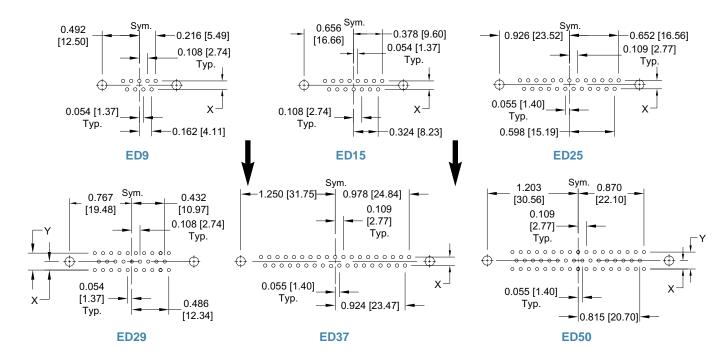


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

Hole identification shown for male connector, use mirror image for female connector.

For code 42 and 52 contacts, mount connector with mating face positioned to follow direction of arrow. For code 44 contacts, mount connector with mating face positioned to oppose direction of arrow.



Suggest 0.040 [1.02] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12 \pm 0.08] Ø hole for mounting connector with push-on fasteners.

CODE NUMBER	х	Y
36	<u>0.112</u> [2.84]	<u>0.224</u> [5.69]
42	0.100 [2.54]	<u>0.200</u> [5.08]
44	0.100 [2.54]	<u>0.200</u> [5.08]
52	<u>0.112</u> [2.84]	<u>0.224</u> [5.69]



Specify Complete

Connector

By Following

Steps 1 through 9

Insert "0" When Step Is Not Used

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

STEP 2 3 4 5 6 8 MD 25 F 59 R7 Т6 Х Ν STEP 9 - Special Options Consult Sales Department. STEP 1 - Basic Series MD Series STEP 8 - Shell Options STEP 2 -- Tin Plated. **MD Series Connector Variants** 9, 15, 25, 29, 37, 50

STEP 3 - Connector Gender

M - Male

Female

STEP 4 - Type of Contacts

- Solder cup.Solder, Straight Printed Board Mount

- 3 Solder, Straight Printed Board Mount with 0.150 [3.81] Tail Length.
 32 Solder, Straight Printed Board Mount with 0.375 [9.52] Tail Length.
 4 Solder, 90° Printed Board Mount with 0.450 [11.43] Contact Extension.
 5 Solder, 90° Printed Board Mount with 0.283 [7.19] Contact Extension.
 59 Solder, 90° Printed Board Mount with 0.545 [13.84] Contact Extension.
 6 Wrap Post.
- 6 Wrap Post.

*STEP 5 - Mounting Style

- Mounting Hole, 0.120 [3.05] Ø.
- Mounting Hole, 0.124 [3.91] Ø.

 Bracket, Mounting, 90° Metal.

 Bracket, Mounting, 90° Metal with Cross Bar.

 Bracket, Mounting, 90° Plastic.

 Bracket, Mounting, 90° Plastic with
- B7 -
- B8 -
- Cross Bar.

- Float Mounts, Universal.
 Threaded Post, Brass, 0.225 [5.71] Length.
 Threaded Post, Nylon, 0.225 [5.71] Length.
 Bracket, Mounting, 90° Metal, Swaged to
 Connector with 4-40 Thread Fixed Female Jackscrews.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads. Bracket, Mounting, 90° Metal, Swaged to R4 -
- Connector with 4-40 Locknut.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar.
- Swaged Spacer, 4-40 Threads, 0.225 [5.71] Lenath.
- Swaged Spacer, 4-40 Threads, 0.125 [3.18] Length.
- Swaged Locknut, 4-40 Threads.
- Swaged Spacer with Push-on Fastener, 4-40 Threads, 0.225 [5.71] Length. S6
- Swaged Spacer with Push-on Fastener for use with Ferrite Inductor, 4-40 Threads, 0.375 [9.53] Length.
- *For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.
- **Ferrite inductor is available on contact types 32, 4, 59 and 6 only.

0 - Zinc Plated, with Dichromate Seal.

- Tin Plated and Dimpled.

*STEP 7 - Locking and Polarizing Systems

- Lock Tab, connector front panel mounted. V3
- V5 Lock Tab, connector rear panel mounted.
- Lock Lever, used with Hoods only.
- Fixed Female Jackscrews.
- Fixed Female Jackscrews T2
- Fixed Male and Female Polarized T6
- Jackscrews
- Е
- Rotating Male Jackscrews. Rotating Male Screw Locks. E2 Rotating Male and Female Polarized E6
- Jackscrews.

*STEP 6 - Hoods and Push-On Fasteners

- None.

- Hood, Top Opening, Plastic. Hood, Side Opening, Plastic. Hood, Top Opening, Plastic with Rotating Male Jackscrews. Available in size 50
- Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 50 only.

 Hood, Top or Side Opening, Robust and Extended Height, Composite and Plastic Y6
- Ζ with Rotating Male Jackscrews. Available in size 9, 15, 25, 37, and 50 only. Hood, Top Opening, Metal. Available in size 15, 25, 37, and 50 only. Hood, EMI/RFI, Metal. Available in size 9, 15, 25, 37, and 50 only. Hood, Top or Side Opening, Plastic. Available in size 9, 15, and 25 only. Push-on Fastener, for 90° Mounting Brackets.
- G W
- Ν
- Ferrite inductor.
- **Q -Ferrite inductor for use with Push-on Fastener and 90° Mounting Brackets.

EURO-D SERIES STEP 1 2 3 4 5 6 7 8 ED 25 F 42 R7 Ν **T2** 0 STEP 9 - Special Options STEP 1 - Basic Series Consult Sales Department **ED Series** STEP 8 - Shell Options STEP 2 - ED Series 0 - Zinc Plated, with **Connector Variants** Dichromate Seal. 9, 15, 25, 29, 37, 50 Tin Plated. Z - Tin Plated and Dimpled. STEP 3 - Connector Gender STEP 7 - Locking and Polarizing Male Female **Systems**

Refer to MD Series Step 7 *STEP 6 - Hoods and Push-On 2 - Solder, Straight Printed Board Mount with 0.236 [5.99] Tail Length. 42 - Solder, 90° Printed Board Mount with 0.370 [9.40] Contact Extension. 44 - Solder, Inverted 90° Printed Board

Fasteners Refer to MD Series Step 6

*For additional information on accessories

- listed in steps 5, 6 and 7, see Accessory Catalog.
- *Ferrite inductor is available on contact types 36 only.
- *STEP 5 Mounting Style

Mount with 0.370 [9.40] Contact Extension. Solder, 90° Printed Board Mount with

0.370 [9.40] Contact Extension.

STEP 4 - Type of Contacts

Solder cup.

Refer to MD Series Step 5



www.connectpositronic.com

PROFESSIONAL QUALITY, REMOVABLE CONTACT SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Removable

Professional Quality Connectors

IEC Publication 807-3 Performance Level Two

U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14098



Soli-D Series connectors are professional quality connectors recommended for use in sheltered, non-corrosive indoor or outdoor environments having normal ventilation, but without temperature or humidity controls. This crimp removable contact connector will meet the Performance Level Two requirements of IEC 807-3.

Soli-D Series connectors utilize precision machined contacts with closed barrel, crimp terminations. The female contact features the Robi-Contact open entry design. Other contact terminations such as solder cup and printed board terminations are also available. The removable contact feature provides for rapid assembly and permits contact repairs on wiring changes.

Five standard contact variants are offered in arrangements of 9, 15, 25, 37 and 50 contacts. Soli-D Series connectors are mateable and compatible with all D-Subminiature connectors conforming to IEC 807-2. IEC 807-3 and MIL-DTL-24308.

A wide assortment of cable support hoods and locking systems is available from stock.

Soli-D Series connectors conform to EIA RS 232 and RS 449, and CCITT X.24 interface connection requirements.

SOLI-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled nylon resin, UL 94V-0, black

color.

Contacts: Male contacts - precision machined

Female contacts - precision brass. machined high tensile phosphor

Contact Plating: Professional performance - gold flash

over nickel plate. Other finishes available

upon request.

Steel with tin plate; zinc plate with dichromate seal. Other materials and Shells:

finishes available upon request. Nylon plastic, or brass, zinc plate with

Mounting Spacers: dichromate seal.

Push-On Fasteners: Phosphor bronze with tin plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

Vibration Lock Systems: Slide lock and lock tabs, steel with nick-

Thermoplastic UL 94V-0. Composite, Hoods:

brass or steel with zinc plate and

dichromate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal. Initial Contact Resistance: 0.008 ohms maximum.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage

Distance [minimum]:

0.039 inch [1.0mm].

Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 10 days.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Insert contact to rear face of insulator and

release from rear face of insulator. Size 20 contacts, male - 0.040 inch [1.02mm] diameter; female - Robi-D contact open

entry design.

Contact Retention

In Insulator: 6 lbs. [27 N].

Contact Terminations: Closed barrel crimp, wire sizes 18 AWG

[1.0mm²] through 32 AWG [0.03mm²]. Also, solder cup and straight printed

board mount terminations.

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and polar-

ized jackscréws.

Printed Board Mount: Rapid installation push-on fasteners. **Locking Systems:** Jackscrews and vibration locking sys-

500 operations minimum per IEC 512-5. **Mechanical Operations:**



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS FACE VIEW OF MALE OR REAR VIEW OF FEMALE







SD 25

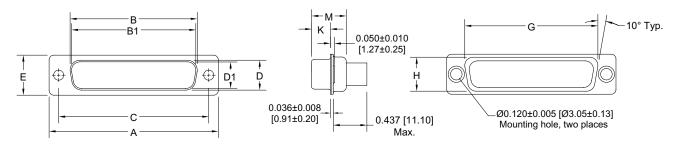


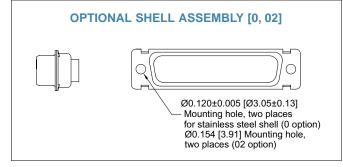
34 35 36 37 38 39 40

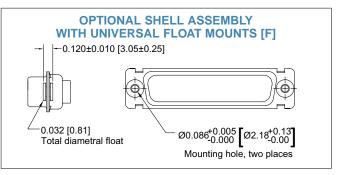
SD 37

SD 50

STANDARD SHELL ASSEMBLY







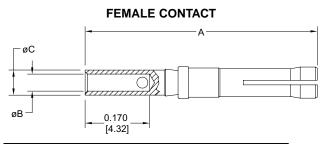
CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D ±0.005 [0.13]	D1 ±0.005 [0.13]	E ±0.015 [0.38]	G <u>±0.010</u> [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
SD 9 M	1.213 [30.81]		<u>0.666</u> [16.92]	0.984 [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
SD 9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
SD 15 M	1.541 [39.14]		0.994 [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
SD 15 F	1.541 [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
SD 25 M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
SD 25 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
SD 37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
SD 37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
SD 50 M	2.635 [66.93]		2.079 [52.81]	2.406 [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
SD 50 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

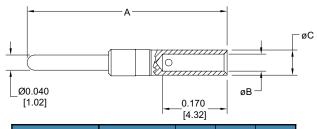


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CRIMP CONTACTS

CLOSED CRIMP BARREL





MALE CONTACT

PART NUMBER	WIRE SIZE AWG/[mm²]	A	ØB	ØС
FC7520D	20 / 22 / 24	<u>0.612</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[15.54]	[1.14]	[1.68]
FC7526D	26 / 28 / 30	<u>0.612</u>	<u>0.026</u>	<u>0.066</u>
	[0.12/0.08/0.05]	[15.54]	[0.66]	[1.68]

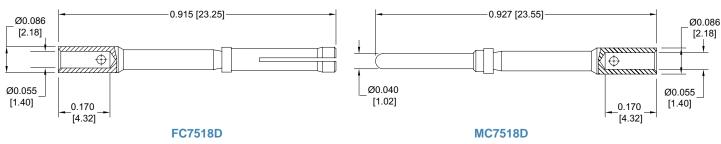
PART NUMBER	WIRE SIZE AWG/[mm²]	A	ØB	ØС
MC7520D	20 / 22 / 24	<u>0.618</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[15.70]	[1.14]	[1.68]
MC7526D	<u>26 / 28 / 30</u>	<u>0.618</u>	0.026	<u>0.066</u>
	[0.12/0.08/0.05]	[15.70]	[0.66]	[1.68]

Note: *C75**D contacts can not be used in the RD series. Crimp contacts must be ordered separately.

Additional plating options available by adding suffix to part number add -14 for 0.000030 [0.76 microns] gold over nickel Example: FC7520D-14 or MC7518D-14

FEMALE CONTACT 18 AWG [1.0 mm²] max.

MALE CONTACT 18 AWG [1.0 mm²] max.

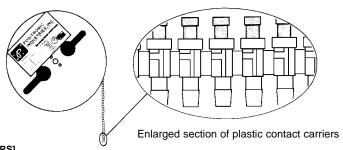


Material – Phosphor bronze. Plating – Gold flash over nickel. Material – Brass.
Plating – Gold flash over nickel.

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed 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 MC7526DR for a male contact and FC7520DR for a female contact.





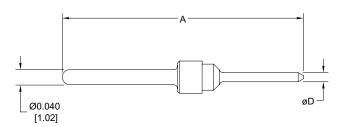
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

STRAIGHT PRINTED BOARD MOUNT CONTACTS

FEMALE CONTACT

A

MALE CONTACT

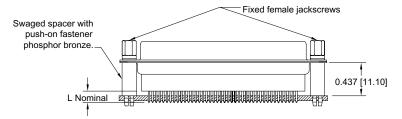


Straight printed board mount contacts are supplied in connector.

CODE NUMBER	L	ØD	A	
3	<u>0.125</u>	0.024	<u>0.772</u>	
	[3.18]	[0.61]	[19.61]	
32	<u>0.188</u>	<u>0.024</u>	<u>0.835</u>	
	[4.78]	[0.61]	[21.21]	

CODE NUMBER	۲	ØD	Α	
3	<u>0.125</u>	0.024	<u>0.768</u>	
	[3.18]	[0.61]	[19.51]	
32	<u>0.188</u>	<u>0.024</u>	<u>0.831</u>	
	[4.78]	[0.61]	[21.11]	

For straight printed board mount contacts specify code no. in step 4 of ordering information.



Typical Part Number: SD37F3S60T2X

Material – Phosphor bronze or brass. Plating – Gold flash over nickel.

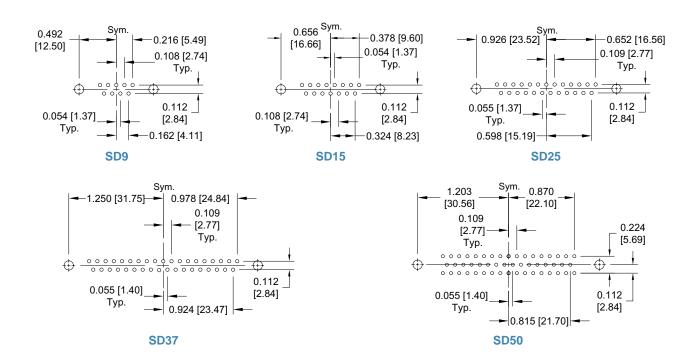




FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

Hole identification shown for male connector, use mirror image for female connector.



Suggest 0.045 [1.14] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12 \pm 0.08] Ø hole for mounting connector with push-on fasteners.







SD25F3S600X



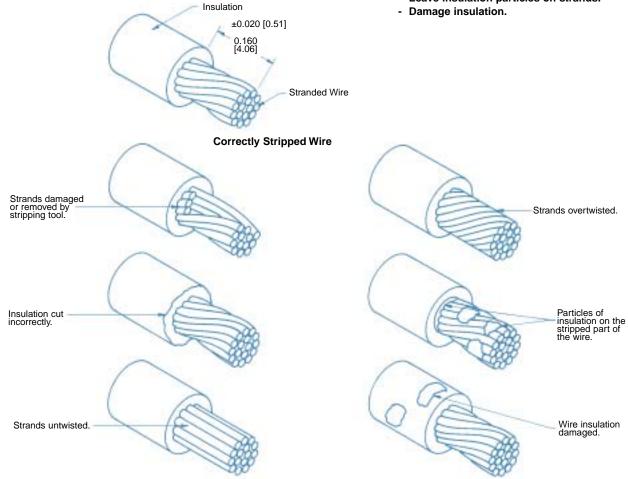
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CRIMPING INFORMATION FOR RD AND SD SERIES CRIMP CONTACTS USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

Step 1: Strip wire to indicated length.

Take Care Not To: - Damage or remove strands.

- Untwist or overtwist strands.
- Leave insulation particles on strands.



Examples of Stripping Faults

Step 2: Crimp wire to contact.

For Hand Crimp Tool: - Place contact into crimping tool.

- Insert wire into contact.
- Center contact by slowly closing the crimping tool until the crimp indenters make contact with the crimp barrel.
- Complete the cycle of the crimping tool in one smooth motion.
- Remove the crimped contact.

For Automatic Feed Pneumatic Crimp Tool: -

- Insert the wire into the contact, positioned in the crimp tool by the plastic carrier.
- Depress the activating device of the crimping tool to start the crimping cycle.
- Remove the crimped contact.



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CRIMPING INFORMATION FOR RD AND SD CRIMP CONTACTS

Step 3: Inspect the crimp.

For All Tools: - Strands to be visible through the inspection hole. - Strands not to be visible beyond the insulation support. Crimped contact to meet recommended conductor tensile force shown in chart. Crimp to meet recommended tensile strength. - Check for peeled gold and bent contacts. Wire Insulation, Typical **Cross Section** of Correctly Crimped Contact **Correctly Crimped Contact** Stripped wires compressed for improved conduction. 8 Crimp Indents Strands not visible through inspection hole. Strands visible beyond insulation support. Crimp indents too close to inspection hole. Stripped part of the wire too long. Stripped part of the wire too short. Crimp indents incorrectly located.

Positronic Recommended Conductor Tensile Strength

WIRE SIZE	AXIAL LOAD
AWG/[mm²]	POUNDS/[N]
<u>18</u>	<u>28</u>
[1.0]	[125]
<u>20</u>	<u>20</u>
[0.5]	[89]
<u>22</u>	<u>12</u>
[0.3]	[53]
<u>24</u>	<u>8</u>
[0.25]	[36]
<u>26</u>	<u>5</u>
[0.12]	[22]
<u>28</u>	<u>3</u>
[0.08]	[13]
<u>30</u>	<u>1.5</u>
[0.05]	[6.7]

Examples of Crimping Faults

Positronic recommended tools for SD series contacts. For more information see contact crimp tools and accessories page.

CRIMP TOOLS	POSITIONERS FOR FC7520D, FC7526D, MC7520D, MC7526D	POSITIONERS FOR FC7518D, MC7518D, FC6018D, MC6018D
9507, HAND CRIMP TOOL	9502-10	9502-11
9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL	Supplied in reels	Not Available

Conductor tensile strength values are derived using silver-tin plated copper wires. Values may change depending upon what type of wire is used.



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED

Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp on wire sizes 20 AWG [0.5mm²] through 32 AWG [0.03mm²]. Soli-D Series contacts must be ordered on reels.

To order, specify part number 9550-1. Foot control valve is supplied as a standard accessory.



MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG [1.0mm²] through 32 AWG [0.03mm²].

To crimp wire size 18 AWG [1.0mm²], order contact positioner 9502-11. To crimp wire size 20 AWG [0.5mm²] through 32 AWG [0.03mm²], order contact positioner 9502-10. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping Soli-D Series contacts.



INSERTION/REMOVAL TOOL

(M81969/1-02)

One end of this tool is used to insert contacts into Soli-D Series connectors. The other end is used to extract contacts. This is accomplished by sliding the extraction tip down the wire into the connector until it bottoms against the contact. A slight rotation while pushing will release the contacts, which are then extracted by simultaneously pulling on the wire.





FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9. Insert "0" When Step Is Not Used.

									<u></u>
STER	1	2	3	4	5	6	7	8	9
	SD	25	F	3	S6	0	Т6	Х	
STEP 1 - Basic Series SD Series	J								STEP 9 - Special Options Consult Sales Department.
STEP 2 - SD Series Connector Va 9, 15, 25, 37, 50	riants	-							EP 8 - Shell Options Zinc Plated with Dichromate Seal.
STEP 3 - Connector Gender M - Male F - Female								X - 7	Find Plated with Dictribinate Seal. Fin Plated. Fin Plated and Dimpled.
STEP 4 - Type of Contacts 0 - Order Contacts separately. 1 - Crimp, 20 AWG-24 AWG [0.5mm²-0.25mm²]. 12 - Crimp, 26 AWG-30 AWG [0.12mm²-0.05mm²]. 3 - Solder, Straight Printed Board Mount with 0.125 [3.18] Tail Length. 23 - Solder, Straight Printed Board Mount with 0.188 [4.78] Tail Length. *STEP 5 - Mounting Style 0 - Mounting Hole, 0.120 [3.05] Ø. 02 - Mounting Hole, 0.154 [3.91] Ø. F - Float Mounts, Universal. P - Threaded Post, Brass, 0.437 [11.10] Length. P - Threaded Post, Nylon, 0.437 [11.10] Length. S - Swaged Spacer, 4-40 Threads, 0.437 [11.10] Length.							V5 - VL - T - T2 - T6 - E - E6 - None. Hood,	Lock Tock Lock Lerixed I Fixed I Fixed I Rotatin Rotatin Rotatin Rotatin Top O	pening, Plastic.
 S - Swaged Spacer, 4-40 Threads, 0.437 [11.10] Length. S2 - Swaged Spacer, 4-40 Threads, 0.125 [3.18] Length. S5 - Swaged Locknut, 4-40 Threads. S6 - Swaged Spacer with Push-on Fastener, 4-40 Threads, 0.437 [11.10] Length. 						Y - Y6 - Z - H - G -	 Hood, Jacks Hood, and F size 5 Hood Heigh Jacks Hood 25, 37 Hood Hood Hood 	Side Corews. Top Operate of only. Top or t, Compore Corews. Top Operate of the compore of the component of the comp	Opening, Plastic. Opening, Plastic with Rotating Male Available in size 50 only. Dening, Plastic with Rotating Male Polarized Jackscrews. Available in Side Opening, Robust and Extended posite and Plastic with Rotating Male Pening, Metal. Available in size 15, O only. FI, Metal. Side Opening, Plastic. Available in d 25 only.

^{*}For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

D-Sub

MILITARY QUALITY, REMOVABLE CONTACT. HIGH DENSITY SUBMINIATURE-D CONNECTORS



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Positronic Industries, Inc. www.connectpositronic.com

Size 22 Contacts, Removable Crimp and **Printed Board Mount**

Military/Industrial **Quality Connectors**

MIL-DTL-24308 and MIL-C-39029

U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14098

Densi-D Series connectors are Military/Industrial quality, high density rectangular connectors designed for use in sheltered, mildly corrosive environments having a wide range of temperature, pressure and humidity changes. These crimp removable contact connectors are qualified to MIL-DTL-24308 and MIL-C-39029.

Densi-D Series connectors utilize precision machined contacts with closed barrel crimp terminations, solder cup terminations, straight and 90° printed board mount. All female contacts are of closed entry



design, featuring a fluted stainless steel shroud.

Six standard contact variants are offered in arrangements of 15, 26, 44, 62, 78 and 104 contacts. Densi-D Series connectors are mateable and compatible with other high density D-Subminiature connectors conforming to MIL-DTL-24308.

A wide assortment of mounting spacers, cable support hoods and locking systems is available from stock.

DENSI-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulators: Glass filled polyester per MIL-M-24519,

UL 94V-0, blue color.

Contacts: Male contacts - precision machined

high tensile copper alloy. Female contacts - precision machined high tensile copper alloy with stainless steel shroud.

Military performance - 0.000050 inch **Contact Plating:**

[1.27 microns] gold over copper plate. Industrial performance - gold flash over nickel plate. Other finishes available upon

Steel with tin plate; zinc and cadmium plate with dichromate seal, stainless Shells:

steel, passivated. Other materials and fin-

ishes available upon request.

Mounting Spacers: Nylon plastic and brass; zinc plate with

dichromate seal.

Push-On Fastener: Phosphor bronze or beryllium copper with tin

Vibration Lock Systems: Slide lock and lock tabs, steel with nick-

el plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

Hoods: Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and

dichromate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 5 amperes nominal. Initial Contact Resistance: 0.005 ohms maximum.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.042 inch [1.06mm]. Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 21 days.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Insert contact to rear face of insulator and

release from rear face of insulator. Size 22 contacts, male - 0.030 inch [0.76mm] diameter; female - closed entry design

with stainless steel shroud.

Contact Retention In Insulator:

Contact Terminations:

Closed barrel crimp, wire sizes 22 AWG [0.3mm²] through 30 AWG [0.05mm²] per

IEC 352-2

9 lbs. [40 N].

90° Printed Board Mount contact termi-

Shells: Male shells may be dimpled for EMI/ESD

Polarization: Trapezoidally shaped shells and polar-

ized jackscréws.

Mounting To Angle Brackets: Jackscrews and riveted fasteners with

0.120 inch [3.05mm] clearance hole, and threaded riveted fasteners with 4-40

threads and nylon lock inserts.

Mounting To Printed Board: Rapid installation push-on fasteners and

mounting posts.

Locking Systems: Jackscrews and vibration locking sys-

Mechanical Operations: 1000 operations minimum per IEC 512-5.

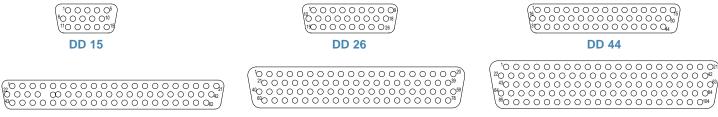


MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

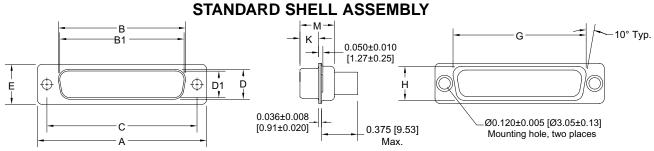
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

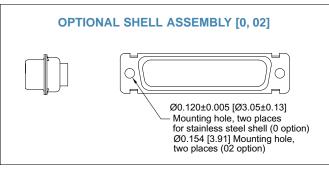
CONTACT VARIANTS

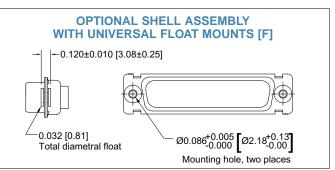
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



DD 62 DD 78 DD 104







CONNECTOR VARIANT SIZES	A ±0.015 [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D <u>±0.005</u> [0.13]	D1 ±0.005 [0.13]	E ±0.015 [0.38]	G <u>±0.010</u> [0.25]	H <u>±0.010</u> [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
DD 15 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
DD 15 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
DD 26 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
DD 26 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
DD 44 M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
DD 44 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
DD 62 M	2.729 [69.32]		<u>2.182</u> [55.42]	<u>2.500</u> [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
DD 62 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
DD 78 M	2.635 [66.93]		<u>2.079</u> [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
DD 78 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
DD 104 M	2.729 [69.32]		2.212 [56.18]	2.500 [63.50]		<u>0.503</u> [12.78]	<u>0.668</u> [16.97]	2.302 [58.47]	<u>0.596</u> [15.14]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
DD 104 F	2.729 [69.32]	2.189 [55.60]		2.500 [63.50]	<u>0.485</u> [12.32]		<u>0.668</u> [16.97]	2.302 [58.47]	<u>0.596</u> [15.14]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

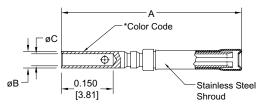
Positronic Industries, Inc.

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

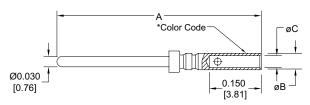
CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT "CLOSED ENTRY" DESIGN



MALE CONTACT



Crimp contacts may be supplied kitted with connector or ordered separately.

PART NUMBER	WIRE SIZE AWG/[mm²]	А	ØB	ØC
FC8022D	22 / 24 / 26 / 28 / 30	<u>0.518</u>	<u>0.035</u>	<u>0.047</u>
	[0.3/0.25/0.12/0.08/0.05]	[13.16]	[0.89]	[1.19]
*M39029/57-354	<u>22 / 24 / 26 / 28</u>	<u>0.518</u>	<u>0.035</u>	<u>0.047</u>
	[0.3/0.25/0.12/0.08]	[13.16]	[0.89]	[1.19]

Material - Leaded nickel copper.

Example: FC8022D-14

Plating - Gold flash over nickel or 0.000050 inch [1.27µ] gold over copper for military specification contacts.

*Color Code - ORANGE/GREEN/YELLOW for military specification contacts.

PART NUMBER	WIRE SIZE AWG/[mm²]	А	ØB	ØC
MC8022D	22 / 24 / 26 / 28 / 30	<u>0.531</u>	0.035	<u>0.047</u>
	[0.3/0.25/0.12/0.08/0.05]	[13.49]	[0.89]	[1.19]
*M39029/58-360	<u>22 / 24 / 26 / 28</u>	<u>0.531</u>	<u>0.035</u>	<u>0.047</u>
	[0.3/0.25/0.12/0.08]	[13.49]	[0.89]	[1.19]

Material - Brass.

Plating - Gold flash over nickel or 0.000050 inch [1.27µ] gold over copper for military specification contacts.

*Color Code - ORANGE/BLUE/BLACK for military specification contacts.

For contact crimp tool information see page 28.

Additional plating options available by adding suffix to part number

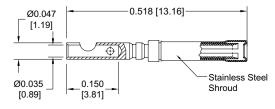
add -14 for 0.000030 [0.76 microns] gold over nickel add -50

add -50 for 0.000050 [1.27 microns] gold over copper

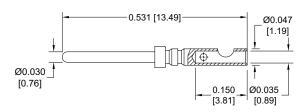
Example: MC8022D-50

SOLDER CUP CONTACTS

FEMALE CONTACT "CLOSED ENTRY" DESIGN



MALE CONTACT



Part Number: FS8022D Part Number: MS8022D

Material - Phosphor bronze.

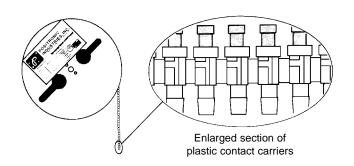
Plating - Gold flash over nickel.

Material - Brass.

Plating - Gold flash over nickel.

Solder contacts may be supplied kitted with connector or ordered separately.

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS



Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed 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 MC8022DR for a male contact and FC8022DR for a female contact.

øD



MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

STRAIGHT PRINTED BOARD MOUNT CONTACTS

MALE CONTACT FEMALE CONTACT "CLOSED ENTRY" DESIGN ø0.030 [0.76]

Straight printed board mount contacts are supplied in connector.

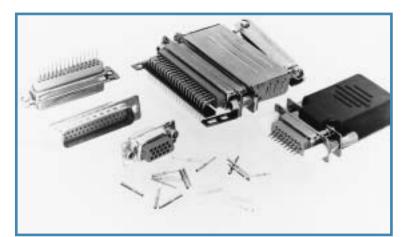
CODE NUMBER	L	ØD	A	
3	<u>0.150</u>	<u>0.020</u>	<u>0.725</u>	
	[3.81]	[0.51]	[18.42]	
32	<u>0.300</u>	<u>0.020</u>	<u>0.865</u>	
	[7.62]	[0.51]	[21.97]	

For straight printed board mount

CODE NUMBER	L	ØD	Α	
3	<u>0.150</u>	0.020	<u>0.737</u>	
	[3.81]	[0.51]	[18.72]	
32	<u>0.300</u>	<u>0.020</u>	<u>0.877</u>	
	[7.62]	[0.51]	[22.28]	

Material - Phosphor bronze or brass.

contacts specify code no. in step 4 of ordering information. Plating - Gold flash over nickel. Fixed female jackscrews Swaged spacer with push-on fastener phosphor bronze. 0.375 [9.53]







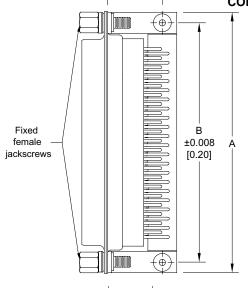
DD SERIES

MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

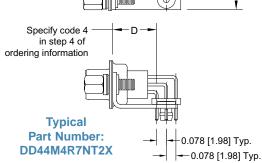
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

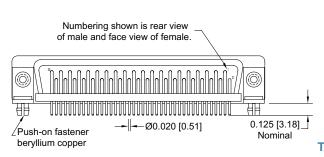


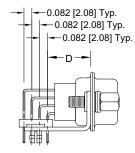




DD**4R7000 0.450 [11.43] CONTACT EXTENSION								
PART NUMBER	Α	В	С	D				
DD15*4R7***	<u>1.204</u>	<u>0.984</u>	<u>0.528</u>	<u>0.450</u>				
	[30.58]	[24.99]	[13.41]	[11.43]				
DD26*4R7***	1.532	1.312	<u>0.528</u>	<u>0.450</u>				
	[38.91]	[33.32]	[13.41]	[11.43]				
DD44*4R7***	2.072	<u>1.852</u>	<u>0.528</u>	<u>0.450</u>				
	[52.63]	[47.04]	[13.41]	[11.43]				
DD62*4R7***	2.720	2.500	<u>0.528</u>	<u>0.450</u>				
	[69.09]	[63.50]	[13.41]	[11.43]				
DD78*4R7***	2.626	<u>2.406</u>	<u>0.573</u>	<u>0.450</u>				
	[66.70]	[61.11]	[14.55]	[11.43]				

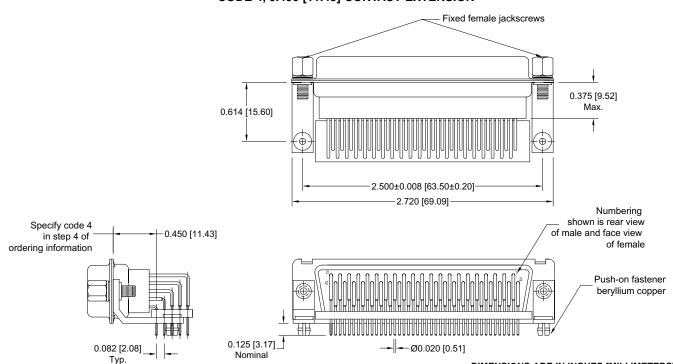






Typical Part Number: DD78M4R7NT2X

90° PRINTED BOARD MOUNT CONNECTOR, SIZE 104 CODE 4, 0.450 [11.43] CONTACT EXTENSION



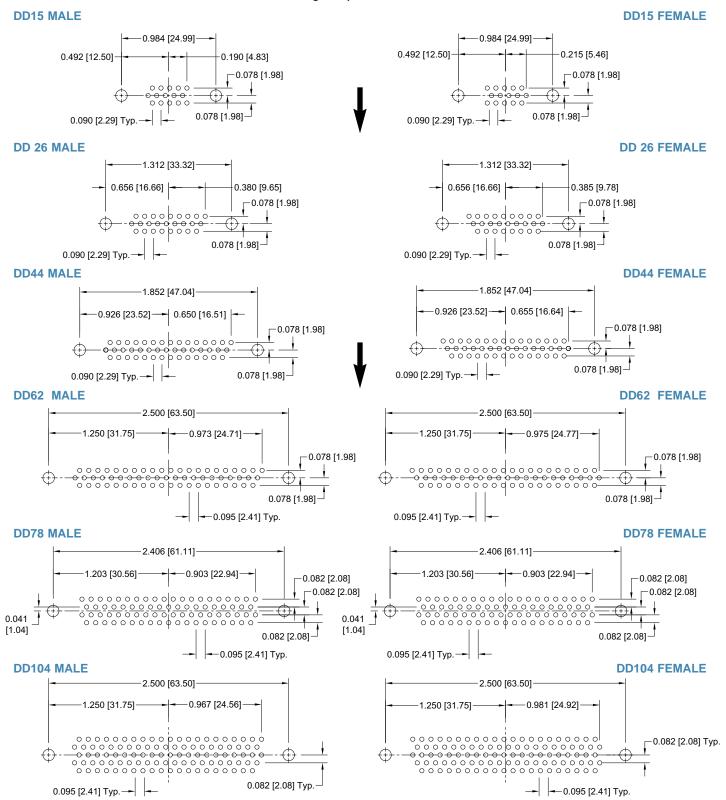


MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

Mount connector with mating face positioned to follow direction of arrows.



D-Sub

MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

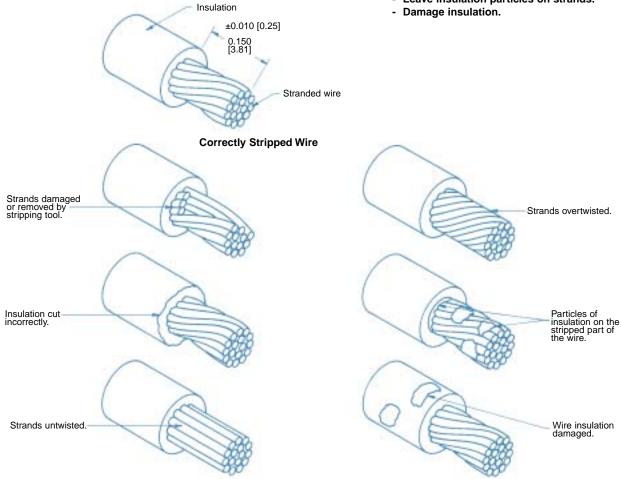
CRIMPING INFORMATION FOR DD AND ODD SERIES CRIMP CONTACTS

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

Step 1: Strip wire to indicated length.

Take Care Not To: - Damage or remove strands.

- Untwist or overtwist strands.
- Leave insulation particles on strands.



Examples of Stripping Faults

Step 2: Crimp wire to contact.

For Hand Crimp Tool: - Place contact into crimping tool.

- Insert wire into contact.

- Center contact by slowly closing the crimping tool until the crimp indenters make contact with the crimp barrel.

- Complete the cycle of the crimping tool in one smooth motion.

Remove the crimped contact.

For Automatic Feed Pneumatic Crimp Tool: -

- Insert the wire into the contact, positioned in the crimp tool by the plastic carrier.
- Depress the activating device of the crimping tool to start the crimping cycle.
- Remove the crimped contact.

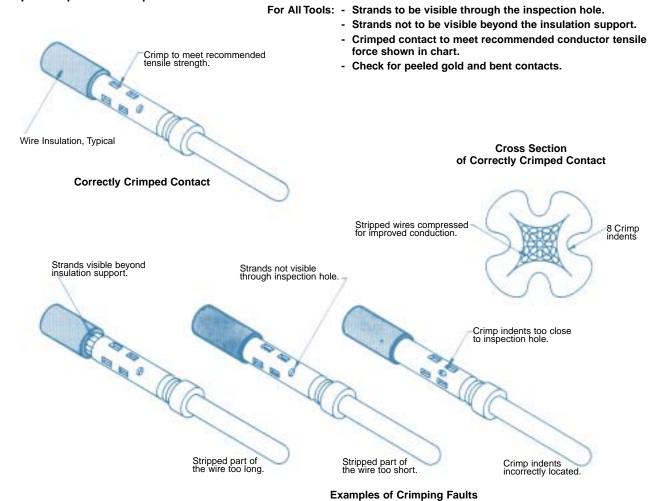


MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

CRIMPING INFORMATION FOR DD AND ODD CRIMP CONTACTS

Step 3: Inspect the crimp.



Positronic Recommended Conductor Tensile Strength

WIRE SIZE	AXIAL LOAD
AWG/[mm²]	POUNDS/[N]
<u>22</u>	<u>12</u>
[0.3]	[53]
<u>24</u>	<u>8</u>
[0.25]	[36]
<u>26</u>	<u>5</u>
[0.12]	[22]
<u>28</u>	<u>3</u>
[0.08]	[13]
<u>30</u>	<u>1.5</u>
[0.05]	[4.4]

Positronic recommended tools for DD series contacts. For more information see contact crimp tools and accessories page.

CRIMP TOOLS	POSITIONERS FOR FC8022D	POSITIONERS FOR MC8022D
9507, HAND CRIMP TOOL	9502-3	9502-4
9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL	Supplied in reels	Supplied in reels

Conductor tensile strength values are derived using silver tin-plated copper wires. Values may change depending upon what type of wire is used.

MILITARY QUALITY, REMOVABLE CONTACT. HIGH DENSITY SUBMINIATURE-D CONNECTORS



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

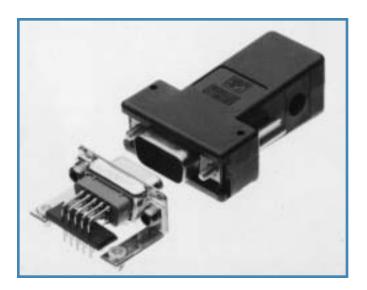
AUTOMATIC FEED CRIMP TOOL. PNEUMATICALLY ACTUATED

Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp on wire sizes 20 AWG [0.5mm²] through 32 AWG [0.03mm²]. DD Series contacts must be ordered on reels.

To order, specify part number 9550-1. Foot control valve is supplied as a standard accessory.





MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG [0.5mm²] through 32 AWG [0.03mm²].

To crimp female contacts, order contact positioner 9502-3. To crimp male contacts, order contact positioner 9502-4. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping Densi-D Series contacts.



INSERTION/REMOVAL TOOL

(M81969/1-04)

One end of this tool is used to insert contacts into Densi-D Series connectors. The other end is used to extract contacts. This is accomplished by sliding the extraction tip down the wire into the connector until it bottoms against the contact. A slight rotation while pushing will release the contacts, which are then extracted by simultaneously pulling on the wire.





www.connectpositronic.com

MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

D-Sub

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9
Insert "0" When Step Is Not Used

					•						
STEP	1	2	3	4	5	6	7	8		9	
	DD	62	F	4	R7	N	T6	S			
STEP 1 - Basic Series DD Series											pecial Options s Department.
STEP 2 - DD Series Connector Variants 15, 26, 44, 62, 78, 104											Options Dichromate Seal.
STEP 3 - Connector Gender M - Male F - Female								S - : X - : Z - :	Stainless Fin Plate Fin Plate	s Steel. ed. ed and I	Dimpled. Dichromate Seal.
 STEP 4 - Type of Contacts O rodered Without Contacts. 1 - Crimp, 22 AWG-30 AWG [0.3mm²-2] 2 - Solder cup, 22 AWG-30 AWG [0.3m] 3 - Solder, Straight Printed Board Mount 32 - Solder, Straight Printed Board Mount 4 - Solder, 90° Printed Board Mount with Extension. 			0 - V3 - V5 - VL - T - T2 -	Pr - Locking and Polarizing Systems None. Lock Tab, connector front panel mounted. Lock Tab, connector rear panel mounted. Lock Lever, used with Hoods only. Fixed Female Jackscrews. Fixed Female Jackscrews.							
*STEP 5 - Mounting Style 0 - Mounting Hole, 0.120 [3.05] Ø. 02 - Mounting Hole, 0.154 [3.91] Ø. B3 - Bracket, Mounting, 90° Metal with B8 - Bracket, Mounting, 90° Plastic with F - Float Mounts, Universal. P - Threaded Post, Brass, 0.375 [9.53]	n Cross [] Lengtl	Bar. n.					E - E2 - E6 -	Rotatii Rotatii Rotatiir Hoods	ng Male s ng Male s ng Male a	Jackscro Screw Land Fem	

- P2 Threaded Post, Nylon, 0.375 [9.53] Length.
- R2 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar.
- R6 Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar.
- R7 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar.
- R8 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar.
- S Swaged Spacer, 4-40 Threads, 0.375 [9.53] Length.
- S2 Swaged Spacer, 4-40 Threads, 0.125 [3.18] Length.
- S5 Swaged Locknut, 4-40 Threads.
- S6 Swaged Spacer with Push-on Fasteners, 4-40 Threads, 0.375 [9.53] Length.
- S7 Swaged Spacer with Push-on Fastener for use with Ferrite Inductor, 4-40 Threads, 0.515 [13.08] Length.

Y6 - Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 78 and 104 only.

- Hood, Top Opening, Plastic with Rotating Male

Jackscrews. Available in size 78 and 104 only.

- Z Hood, Top or Side Opening, Robust and Extended Height, Composite and Plastic with Rotating Male Jackscrews. Available in size 15,
- 26, 44, 62, and 78 only.
 H Hood, Top Opening, Metal. Available in size 26, 44, 62, and 78 only.
 - G Hood, EMI/RFI, Metal.

- Hood, Top Opening, Plastic.

- Hood, Side Opening, Plastic.

- Hood, Top or Side Opening, Plastic. Available in size 15, 26, and 44 only.
- N Push-on Fastener, for 90° Mounting Brackets.
- *F Ferrite Inductor

^{*}For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

^{**}Ferrite inductor is available on contact type 32 only.

D-Sub

PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Positronic Industries, Inc. www.connectpositronic.com

Size 22 Contacts, Removable Crimp and Solder Printed Board Mount

Professional Quality

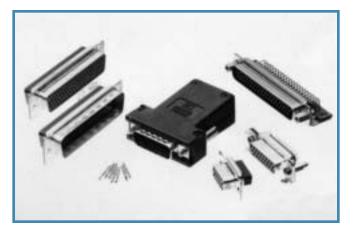
U.L. Recognized File #E49351 CSA Recognized File #LR54219 Telecommunication

U.L. File #14098

ODD Series connectors are low cost, professional quality, high density rectangular connectors recommended for use in sheltered, non-corrosive indoor environments having normal ventilation.

ODD Series connectors utilize precision machined, removable contacts having closed barrel crimp terminations and solder cup wire terminations. For printed board mount application, straight solder printed board mount and 90° angled solder terminations are available.

Female removable contacts feature a rugged "Robi-D Open Entry" design. Female, fixed contacts for board mounted applications feature



both rugged Robi-D design and standard open entry design, available to customer requirements.

Six standard contact variants are offered in arrangements of 15, 26, 44, 62, 78, and 104 contacts. ODD Series connectors are mateable and compatible with other high density D-subminiature connectors conforming to MIL-DTL-24308, and are U.L. and CSA recognized.

ODD Series connectors are widely used in computer and industrial control applications.

ODD SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulators: Glass filled polyester per MIL-M-24519,

UL 94V-0, black color.

Contacts: Male contacts - precision machined

brass or phosphor bronze.

Female contacts - precision machined

high tensile phosphor bronze.

Contact Plating: Professional quality – gold flash over nickel

plate. Other finishes available upon request.

Shells: Steel with tin plate, zinc plate with dichromate seal. Other materials and

finishes available upon request.

Mounting Spacers: Nylon, plastic and brass, zinc plate with

dichromate seal.

Vibration Lock Systems: Slide lock and lock tabs, steel with nick-

el plate.

Push-On Fasteners: Phosphor bronze or beryllium copper with tin

plate

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

Hoods: Thermoplastic UL 94V-0. Composite,

brass or steel with zinc plate and dichro-

mate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 5 amperes nominal. **Initial Contact Resistance:** 0.010 ohms maximum.

Proof Voltage: 1000 V r.m.s. **Insulator Resistance:** 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.042 inch [1.06mm].

Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 10 days.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Insert contact to rear face of insulator

and release from rear face of insulator. Size 22 contact, male – 0.030 inch [0.76mm] diameter; female removable contacts feature a rugged "Robi-D Open

Entry" design.

Fixed Contacts, Board

Mounted Applications: Female contact – both rugged Robi-D

design and standard open entry design available to customer requirements.

Contact Retention In Insulator: 9 lbs. [40 N].

Contact Terminations: Closed barrel crimp, wire sizes 22 AWG

[0.3mm²] through 30 AWG [0.05mm²]. Solder cup wire, 0.035 inch [0.89mm] hole diameter for 22 AWG [0.3mm²] wire

maximum.

0.020 inch [0.5mm] or 0.030 inch [0.76mm] diameter straight and 90° printed board mount contact terminations.

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and

polarized jackscrews.

Mounting To

Mounting To

Angle Brackets: Jackscrews and riveted fasteners with

0.120 inch [3.05mm] clearance hole, and threaded riveted fasteners with 4-40

threads and nylon lock inserts.

Printed Board: Rapid installation push-on fasteners and

mounting posts.

Locking Systems: Jackscrews and vibration locking systems.

Mechanical Operations: 500 operations minimum per IEC 512-5.

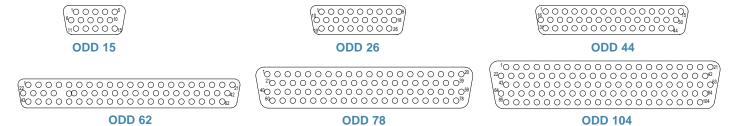


PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

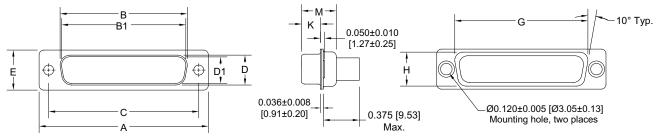
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

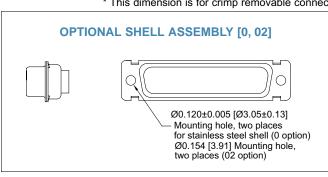
FACE VIEW OF MALE OR REAR VIEW OF FEMALE

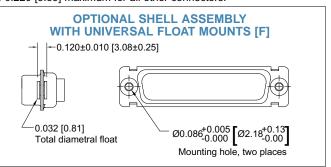


STANDARD SHELL ASSEMBLY



* This dimension is for crimp removable connectors. 0.220 [5.59] maximum for all other connectors.





CONNECTOR VARIANT SIZES	A ±0.015 [0.38]	B ±0.005 [0.13]	B1 <u>±0.005</u> [0.13]	C ±0.005 [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	G <u>±0.010</u> [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
ODD 15 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
ODD 15 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ODD 26 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
ODD 26 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ODD 44 M	2.088 [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ODD 44 F	2.088 [53.04]	1.511 [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ODD 62 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ODD 62 F	2.729 [69.32]	<u>2.159</u> [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ODD 78 M	2.635 [66.93]		2.079 [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ODD 78 F	2.635 [66.93]	<u>2.064</u> [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ODD 104 M	2.729 [69.32]		2.212 [56.18]	2.500 [63.50]		<u>0.503</u> [12.78]	<u>0.668</u> [16.97]	2.302 [58.47]	<u>0.596</u> [15.14]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ODD 104 F	2.729 [69.32]	2.189 [55.60]		2.500 [63.50]	<u>0.485</u> [12.32]		<u>0.668</u> [16.97]	2.302 [58.47]	<u>0.596</u> [15.14]	0.243 [6.17]	<u>0.429</u> [10.90]

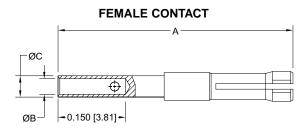
PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

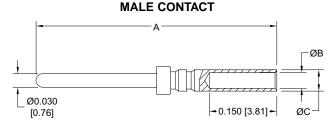


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CRIMP CONTACTS

CLOSED CRIMP BARREL





Crimp contacts may be supplied kitted with connector or ordered separately.

PART NUMBER	WIRE SIZE AWG/[mm²]	A	ØB	ØC
FC8122D	22 / 24 / 26 / 28 / 30	<u>0.529</u>	0.035	<u>0.047</u>
	[0.3/0.25/0.12/0.08/0.05]	[13.44]	[0.89]	[1.19]

Material - Phosphor bronze Plating - Gold flash over nickel

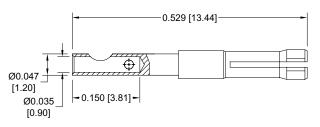
PART NUMBER	WIRE SIZE AWG/[mm²]	А	ØB	ØC
MC8122D	22 / 24 / 26 / 28 / 30	<u>0.531</u>	0.035	<u>0.047</u>
	[0.3/0.25/0.12/0.08/0.05]	[13.49]	[0.89]	[1.19]

Material - Brass Plating - Gold flash over nickel

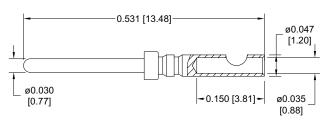
Additional plating options available by adding suffix to part number add -14 for 0.000030 [0.76 microns] gold over nickel Example: FC8122D-14 or MS8122D-14

SOLDER CUP CONTACTS

FEMALE CONTACT



MALE CONTACT



Part Number: FS8122D

Material - Phosphor bronze Plating - Gold flash over nickel

Part Number: MS8122D

Material - Brass

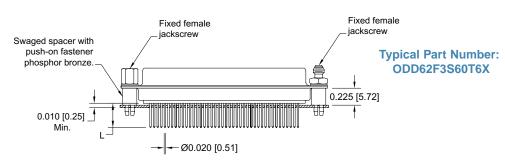
Plating - Gold flash over nickel

Solder contacts may be supplied kitted with connector or ordered separately.

STRAIGHT PRINTED BOARD MOUNT CONNECTOR

Code No.	L
3	<u>0.150</u> [3.81]
32	<u>0.300</u> [7.62]

For straight printed board mount contacts specify code no. in step 4 of ordering information

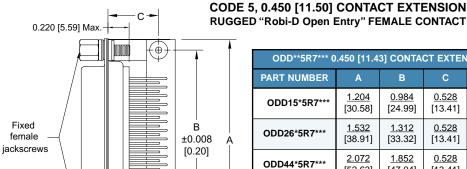




PROFESSIONAL QUALITY, REMOVABLE CONTACT. HIGH DENSITY SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR



(| | |

ODD**5R7*** 0.450 [11.43] CONTACT EXTENSION **PART NUMBER** D 1.204 0.984 0.528 0.450 ODD15*5R7*** [30.58] [24.99] [13.41] [11.43] 1.532 1.312 0.528 0.450 ODD26*5R7*** [38.91] [33.32] [13.41] [11.43] 2.072 1.852 0.528 0.450 ODD44*5R7*** [52.63] [47.04] [13.41] [11.43]

2.720

[69.09]

2.626

[66.70]

ODD62*5R7**

ODD78*5R7***

2.500

[63.50]

2.406

[61.11]

0.528

[13.41]

0.573

[14.55]

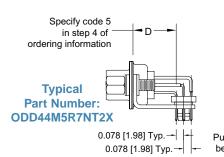
0.450

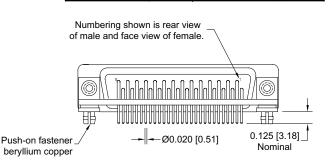
[11.43]

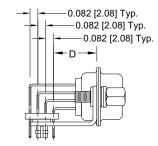
0.450

[11.43]

See next page for size 104 Right Angle Connectors.



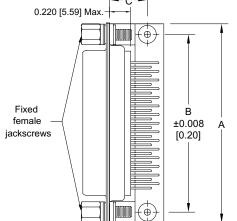




Typical Part Number: ODD78M5R7NT20

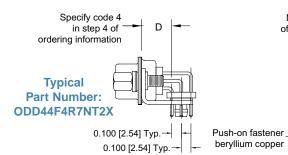
90° PRINTED BOARD MOUNT CONNECTOR CODE 4, 0.314 [7.98] CONTACT EXTENSION

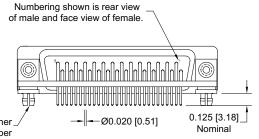
SLOTTED OPEN ENTRY FEMALE CONTACT

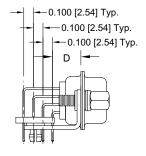


ODD**4R7*** 0.314 [7.98] CONTACT EXTENSION **PART NUMBER** В C D 1.204 0.984 0.414 0.314 ODD15*4R7*** [10.52] [30.58] [24.99] [7.98] 1.532 1.312 0.414 0.314 ODD26*4R7*** [38.91] [33.32] [10.52] [7.98] 2.072 <u>1.852</u> 0.414 0.314 ODD44*4R7*** [52.63] [47.04] [10.52] [7.98] 2.720 2.500 0.414 0.314 ODD62*4R7*** [69.09][63.50][10.52][7.98]2.626 2.406 0.414 0.314 ODD78*4R7*** [66,70] [61.11] [10.52] [7.98]

See next page for size 104 Right Angle Connectors.





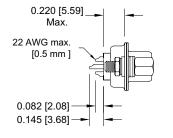


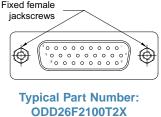
Typical Part Number: ODD78M4R7NT20

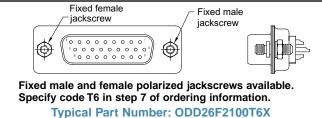


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS



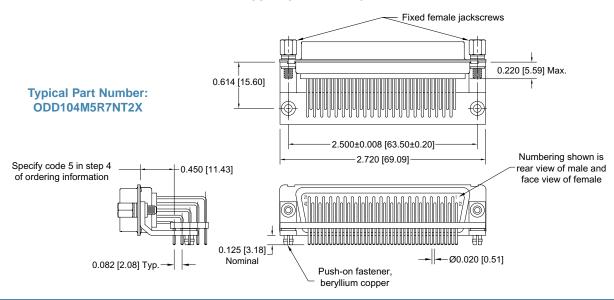






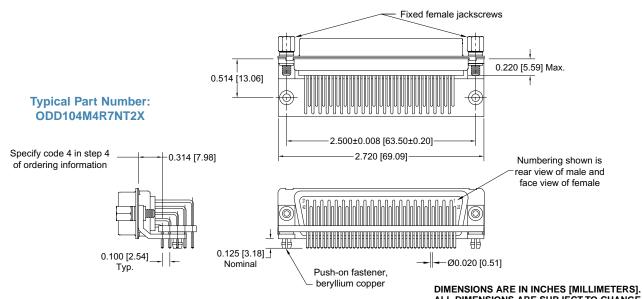
90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.450 [11.43] CONTACT EXTENSION RUGGED "Robi-D Open Entry" FEMALE CONTACT **CONTACT VARIANT 104**



90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.314 [7.98] CONTACT EXTENSION SLOTTED OPEN ENTRY FEMALE CONTACT **CONTACT VARIANT 104**



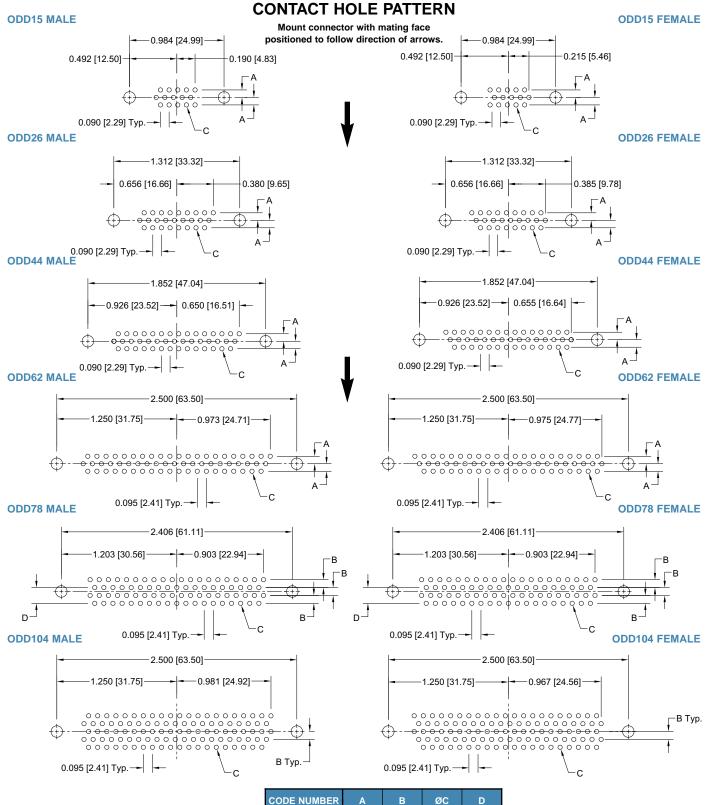


PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

D-Sub

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° AND STRAIGHT PRINTED BOARD



PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED

Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp on wire sizes 20 AWG [0.5mm²] through 32 AWG [0.03mm²]. ODD Series contacts must be ordered on reels.

To order, specify part number 9550-1. Foot control valve is supplied as a standard accessory.



Positronic Recommended Conductor Tensile Strength

WIRE SIZE	AXIAL LOAD
AWG/[mm²]	POUNDS/[N]
<u>22</u>	<u>12</u>
[0.3]	[53]
<u>24</u>	<u>8</u>
[0.25]	[36]
<u>26</u>	<u>5</u>
[0.12]	[22]
<u>28</u>	<u>3</u>
[0.08]	[13]
<u>30</u>	<u>1.5</u>
[0.05]	[4.4]

Conductor tensile strength values are derived using silver-tin plated copper wires.

Values may change depending upon what type of wire is used.

MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG [0.5mm²] through 32 AWG [0.03mm²].

To crimp female contacts, order contact positioner 9502-3. To crimp male contacts, order contact positioner 9502-4. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping ODD Series contacts.



INSERTION/REMOVAL TOOL

(M81969/1-04)

One end of this tool is used to insert contacts into ODD Series connectors. The other end is used to extract contacts. This is accomplished by sliding the extraction tip down the wire into the connector until it bottoms against the contact. A slight rotation while pushing will release the contacts, which are then extracted by simultaneously pulling on the wire.



Positronic recommended tools for ODD series contacts.

CRIMP TOOLS	POSITIONERS FOR FC8122D	POSITIONERS FOR MC8122D
9507, HAND CRIMP TOOL	9502-3	9502-4
9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL	Supplied in reels	Supplied in reels



PROFESSIONAL QUALITY, REMOVABLE CONTACT. HIGH DENSITY SUBMINIATURE-D CONNECTORS

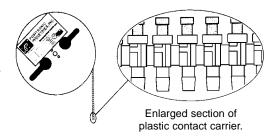
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

D-Sub

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed 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 MC8122DR for a male contact and FC8122DR for a female contact.



ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9 Insert "0" When Step Is Not Used

			1115	SCIL U	WITE	Otep	13 1401	USCU		
	STEP	1	2	3	4	5	6	7	8	9
		ODD	62	F	5	R7	N	Т6	S	
STEP 1 - Basic Series ODD Series										STEP 9 - Special Options Consult Sales Department.
STEP 2 - ODD Series Conr 15, 26, 44, 62, 78, 104	ector Va	ariants	i							P 8 - Shell Options inc Plated with Dichromate Seal.
STEP 3 - Connector Gende M - Male F - Female	er								S - S X - T	tainless Steel. in Plated. in Plated and Dimpled.
 STEP 4 - Type of Contacts 0 - Ordered Without Contacts. 1 - Crimp, 22 AWG–30 AWG [0.3mm²–0.05mm²]. 2 - Solder cup, 22 AWG–30 AWG [0.3mm²–0.05mm²], Removable contacts. 21 - Solder cup, 22 AWG–30 AWG [0.3mm²–0.05mm²], Fixed contacts. 3 - Solder, Straight Printed Board Mount with 0.150 [3.81] Tail Length. 32 - Solder, Straight Printed Board Mount with 0.300 [7.62] Tail Length. 4 - Solder, 90° Printed Board Mount with 0.314 [7.98] Contact Extension. 5 - Solder, 90° Printed Board Mount with 0.450 [11.43] Contact 						*\$TF	0 - V3 - V5 - VL - T - T6 - E - E2 - E6 -	None. Lock T Lock L Fixed Fixed Fixed Rotatir Rotatir	Locking and Polarizing Systems Tab, connector front panel mounted. Tab, connector rear panel mounted. Lever, used with Hoods Only. Female Jackscrews. Female Jackscrews. Male and Female Polarized Jackscrews. Ing Male Jackscrews. Ing Male Screw Locks. Ing Male and Female Polarized Jackscrews. Ing Male and Female Polarized Jackscrews. Ing Male and Female Polarized Jackscrews. Ing Male Applications of the Male and Push-On Fasteners	

*STEP 5 - Mounting Style

- Mounting Hole, 0.120 [3.05] Ø.
- Mounting Hole, 0.154 [3.91] Ø.
- B3 Bracket, Mounting, 90° Metal with Cross Bar. B8 Bracket, Mounting, 90° Plastic with Cross Bar.
- Float Mounts, Universal.
- Threaded Post, Brass, 0.225 [5.71] Length.
- P2 Threaded Post, Nylon, 0.225 [5.71] Length.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar.
- R7 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar.
- R8 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar.
- Swaged Spacer, 4-40 Threads, 0.225 [5.71] Length.
- S2 Swaged Spacer, 4-40 Threads, 0.125 [3.18] Length.
- S5 Swaged Locknut, 4-40 Threads.
- Swaged Spacer with Push-on Fasteners, 4-40 Threads, 0.225 [5.71] Length.
- Swaged Spacer with Push-on Fastener for use with Ferrite Inductor, 4-40 Threads, 0.375 [9.53] Length.

*For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

Hood, Top Opening, Plastic.

Hood, Side Opening, Plastic.

Hood, Top Opening, Plastic with Rotating Male Jackscrews. Available in size 78 and 104 only.

Y6 - Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 78 and 104 only.

Hood, Top or Side Opening, Robust Extended Height, Composite and Plastic with Rotating Male Jackscrews.

Available in size 15, 26, 44, 62 and 78 only. H - Hood, Top Opening, Metal. Available in size 26, 44,

62, and 78 only. - Hood, EMI/RFI, Metal.

Mounting Brackets.

W - Hood, Top or Side Opening, Plastic. Available in size 15, 26, and 44 only.

- Push-on Fastener, for 90° Mounting. **F - Ferrite Inductor.

Ferrite Inductor with Push-on Fastener, for 90°

**Ferrite inductor is available on contact types 32 and 5 only.



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Positronic Industries, Inc. www.connectpositronic.com

Size 20 Signal and Thermocouple Contacts. Crimp Removable Military/Industrial **Quality Connectors IEC Publication 807-3 Performance Level One**

MIL-DTL-24308 and MIL-C-39029

U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14098

Rhapso-D Series connectors are Military/Industrial quality rectangular connectors designed for use in sheltered, mildly corrosive environments having a wide range of temperature, pressure and humidity changes. These crimp removable contact connectors are qualified to MIL-DTL-24308 and MIL-C-39029, and will meet the performance requirements of IEC 807-3, Performance Level One.

Rhapso-D Series connectors utilize precision machined contacts with closed barrel, crimp terminations. The female contact features a rugged closed entry design contact with stainless steel shroud. A "Robi-D Open Entry" female contact is also available.



Six standard connector variants are offered in arrangements of 9, 15, 25, 29, 37 and 50 contacts. Rhapso-D Series connectors are mateable and compatible with all D-Subminiature connectors conforming to MIL-DTL-24308, IEC 807-2 and IEC 807-3.

A wide assortment of cable support hoods and locking systems is available from stock.

Rhapso-D Series connectors conform to EIA RS 232 and RS 449, and CCITT X.24 interface connection requirements.

RHAPSO-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Glass filled DAP per ASTM-D-5948, Insulator:

SDG-F, UL 94V-0, green color.

Contacts: Signal: Male contacts - precision machined Female contacts - precision brass.

machined high tensile copper alloy with stainless steel shroud or open entry

Robi-D design.

Thermocouple: See page 41.

Contact Plating: Military performance - 0.000050 inch

[1.27 microns] gold over copper plate. İndustrial performance – gold flash over nickel plate. Other finishes available upon

request.

Shells: Steel with tin plate; zinc and cadmium

plate with dichromate seal, stainless steel, passivated. Other materials and

finishes available upon request.

Mounting Spacers: Brass, zinc plate with dichromate seal.

Steel with zinc plate and dichromate Jackscrew Systems:

seal, or clear zinc plate.

Vibration Lock Systems: Slide lock and lock tabs, steel with nick-

el plate.

Thermoplastic UL 94V-0. Composite, Hoods:

brass or steel with zinc plate and

dichromate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal. Initial Contact Resistance: 0.005 ohms maximum.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm]. Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 21 days.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Insert contact to rear face of insulator

> and release from rear face of insulator. Size 20 contact, male - 0.040 inch [1.02mm] diameter; female - closed entry design with stainless steel shroud or open entry Robi-D design.

Contact Retention 9 lbs. [40 N]. In Insulator:

Closed barrel crimp, wire sizes 18 AWG [1.0mm²] through 30 AWG [0.05mm²]. **Contact Terminations:**

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and polar-

ized jackscrews.

Locking Systems: Jackscrews and vibration locking sys-

Mechanical Operations: 1000 operations minimum per IEC 512-5

for closed entry female contact.

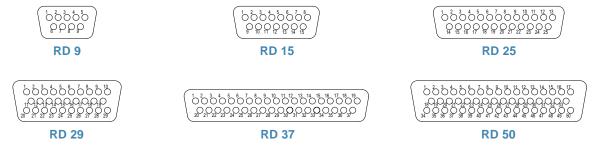
500 operations per IEC 512-5 for "Robi-D Open Entry" design female contact.



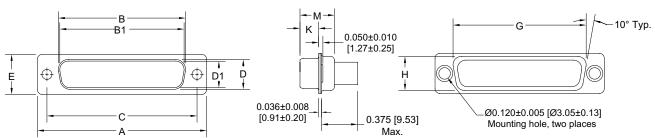
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

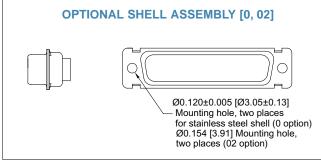
CONTACT VARIANTS

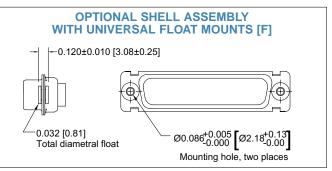
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY







CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 <u>±0.005</u> [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	G <u>±0.010</u> [0.25]	H <u>±0.010</u> [0.25]	K <u>±0.005</u> [0.13]	M ±0.010 [0.25]
RD 9 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
RD 9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
RD 15 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
RD 15 F	1.541 [39.14]	0.971 [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
RD 25 M	2.088 [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
RD 25 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
RD 29 M	1.770 [44.96]		1.274 [32.36]	1.534 [38.96]		<u>0.450</u> [11.43]	<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.217</u> [5.51]	<u>0.426</u> [10.82]
RD 29 F	1.770 [44.96]	1.251 [31.78]		1.534 [38.96]	<u>0.431</u> [10.95]		<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.237</u> [6.02]	<u>0.429</u> [10.90]
RD 37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
RD 37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
RD 50 M	2.635 [66.93]		2.079 [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
RD 50 F	2.635 [66.93]	2.064 [52.43]		2.406 [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	0.243 [6.17]	<u>0.429</u> [10.90]



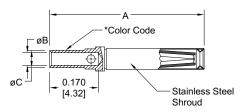
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Positronic industries, inc www.connectpositronic.con

CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT "CLOSED ENTRY" DESIGN



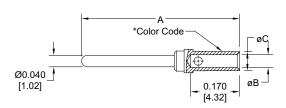
Material - Leaded nickel copper.

Plating - Gold flash over nickel or 0.000050 inch [1.27µ] gold over copper for military specification contacts.

*Color Code - ORANGE/BLUE/GRAY for military specification contacts.

PART NUMBER	WIRE SIZE AWG/[mm²]	A	ØB	ØC
FC6020D	20 / 22 / 24	<u>0.538</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[13.67]	[1.14]	[1.68]
FC6026D	<u>26 / 28 / 30</u>	<u>0.538</u>	<u>0.027</u>	<u>0.066</u>
	[0.12/0.08/0.05]	[13.67]	[0.69]	[1.68]
*M39029/63-368	20 / 22 / 24	<u>0.538</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[13.67]	[1.14]	[1.68]

MALE CONTACT



Material - Brass.

Plating - Gold flash over nickel or 0.000050 inch [1.27µ] gold over copper for military specification contacts.

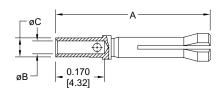
*Color Code - ORANGE/BLUE/WHITE for military specification contacts.

PART NUMBER	WIRE SIZE AWG/[mm²]	A	ØB	ØC
MC6020D	20 / 22 / 24	<u>0.550</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[13.97]	[1.14]	[1.68]
MC6026D	<u>26 / 28 / 30</u>	<u>0.550</u>	<u>0.027</u>	<u>0.066</u>
	[0.12/0.08/0.05]	[13.97]	[0.69]	[1.68]
*M39029/64-369	20 / 22 / 24	<u>0.550</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[13.97]	[1.14]	[1.68]

Note: *C60**D contacts can be used in the SD series.

Crimp contacts may be supplied kitted with connector or ordered separately. See page 42 for crimp tool information.

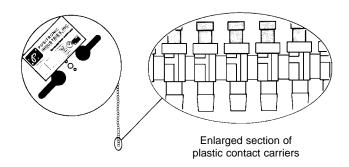
FEMALE CONTACT "Robi-D Open Entry" DESIGN 20/22/24 AWG [0.5/0.3/0.25 mm²]



Material - Phosphor bronze.
Plating - Gold flash over nickel.

For RD crimping information, see SD Series, p. 16 and 17.

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS



Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed 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 FC6026DR for a female contact.

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

CRIMP CONTACTS

18 AWG [1.0mm²] max.

FEMALE CONTACT "CLOSED ENTRY" DESIGN

0.927 [23.55] 0.916 [23.26] Ø0.085 Ø0.086 [2.16] [2.18] \oplus ø0.040 Stainless Ø0.054 [1.02] Ø0.055 Steel Shroud 0.170 [1.38] 0.170 [1.40] [4.32] [4.32]

Part Number: FC6018D

Material - Phosphor bronze. Plating - Gold flash over nickel. Material - Brass.

Plating - Gold flash over nickel.

MALE CONTACT

Part Number: MC6018D

For RD crimping information, see SD Series, p. 16 and 17.

Additional plating options available by adding suffix to part number

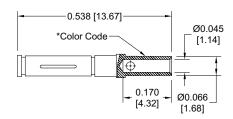
add -14 for 0.000030 [0.76 microns] gold over nickel add -50 for 0.000050 [1.27 microns] gold over copper Example: FC6018D-14 Example: MC6018D-50

THERMOCOUPLE CONTACTS

MALE CONTACT

Ø0.066 [1.68] *Color Code Ø0.040 [1.02] Ø0.045 [1.14] 0.170 [4.32]

FEMALE CONTACT



For RD crimping information, see SD Series, p. 16 and 17.

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm²]
к	Chromel®(+)	MC6020DCH [†]	FC6020DCH ^{††}	White	<u>20 / 22 / 24</u> [0.5 / 0.3 / 0.25]
к	Alumel®(-)	MC6020DAL [†]	FC6020DAL [#]	Green	<u>20 / 22 / 24</u> [0.5 / 0.3 / 0.25]
т	Copper (+)	MC6020DCU [†]	FC6020DCU ^{††}	Red	<u>20 / 22 / 24</u> [0.5 / 0.3 / 0.25]
т	Constantan (-)	MC6020DCO [†]	FC6020DCO ^{††}	Yellow	<u>20 / 22 / 24</u> [0.5 / 0.3 / 0.25]
E	Chromel®(+)	MC6020DCH [†]	FC6020DCH ^{††}	White	<u>20 / 22 / 24</u> [0.5 / 0.3 / 0.25]
E	Constantan (-)	MC6020DCO [†]	FC6020DCO ^{††}	Yellow	20 / 22 / 24 [0.5 / 0.3 / 0.25]

[†]Dimensionally equivalent to M39029/64-369

Chromel[®] and Alumel[®] are registered trademarks of Hoskins Manufacturing Company.

For more information on the availability of Type J thermocouple contacts, and information about thermocouple contacts with PCB solder termination, please contact Technical Sales.

^{††}Dimensionally equivalent to M39029/63-368



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

www.connectpositronic.con

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED

Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp on wire sizes 20 AWG [0.5mm²] through 32 AWG [0.03mm²]. Rhapso-D Series contacts must be ordered on reels.

To order, specify part number 9550-1. Foot control valve is supplied as a standard accessory.



Positronic Recommended Conductor Tensile Strength

WIRE SIZE	AXIAL LOAD
AWG/[mm²]	POUNDS/[N]
<u>18</u>	<u>28</u>
[1.0]	[125]
<u>20</u>	<u>20</u>
[0.5]	[89]
<u>22</u>	<u>12</u>
[0.3]	[53]
<u>24</u>	<u>8</u>
[0.25]	[36]
<u>26</u>	<u>5</u>
[0.12]	[22]
<u>28</u>	<u>3</u>
[0.08]	[13]
<u>30</u>	<u>1.5</u>
[0.05]	[6.7]

Conductor tensile strength values are derived using silver-tin plated copper wires.

Values may change depending upon what type of wire is used.

MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

This miniature 8 step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG [1.0mm²] through 32 AWG [0.03mm²].

To crimp wire size 18 AWG [1.0mm²], order contact positioner 9502-11. To crimp wire size 20 AWG [0.5mm²] through 30 AWG [0.05mm²], order contact positioner 9502-5. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping Rhapso-D Series contacts.



INSERTION/REMOVAL TOOL

(M81969/1-02)

One end of this tool is used to insert contacts into Rhapso-D Series connectors. The other end is used to extract contacts. This is accomplished by sliding the extraction tip down the wire into the connector until it bottoms against the contact. A slight rotation while pushing will release the contacts, which are then extracted by simultaneously pulling on the wire.



Positronic recommended tools for RD series contacts.

For more information see contact crimp tools
and accessories page.

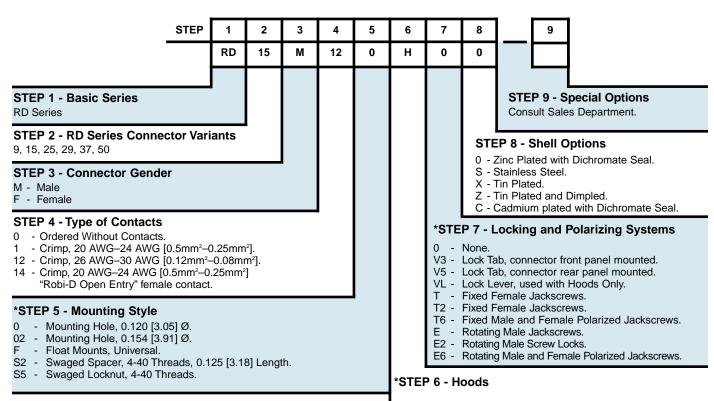
CRIMP TOOLS	POSITIONERS FOR FC6020D, MC6020D, FC6026D, MC6026D, FC6120D M39029/63-368 M39029/64-369	POSITIONERS FOR FC6018D, MC6018D, FC6118D
9507, HAND CRIMP TOOL	9502-5	9502-11
9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL	Supplied in reels	Not Available

D-Sub

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9
Insert "0" When Step Is Not Used



- 0 None.
- J Hood, Top Opening, Plastic.
- Hood, Side Opening, Plastic.
- Y Hood, Top Opening, Plastic with Rotating Male Jackscrews. Available in size 50 only.
- Y6 Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 50 only.
- Z Hood, Top or Side Opening, Robust Extended Height, Composite and Plastic with Rotating Male Jackscrews. Available in size 9, 15, 25, 37, and 50 only.
- H Hood, Top Opening, Metal. Available in size 15, 25, 37, and 50 only.
- G Hood, EMI/RFI, Metal. Available in size 9, 15, 25, 37, and size 50 only.
- W Hood, Top or Side Opening, Plastic. Available in size 9, 15, and 25 only.

*For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

For RD crimping information, see SD Series, p. 16 and 17.

PROFESSIONAL QUALITY, CRIMP REMOVABLE CONTACT SUBMINIATURE-D CONNECTORS



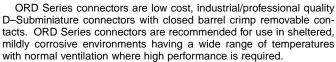
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Positronic Industries, Inc. www.connectpositronic.com

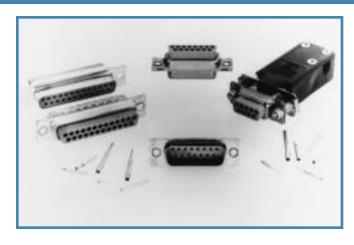
Size 20 Signal and Thermocouple Contacts, Removable Crimp

Industrial Quality Connectors

IEC Publication 807-3 Performance Level Two



ORD Series connectors utilize precision-machined contacts to provide durability. Female contacts feature the low cost, high performance Robi-D Open Entry design. ORD Series connectors meet the performance requirements of IEC 807-3, Performance Level Two. Closed entry female contacts are available upon request.



Six [6] standard contact variants are offered in arrangements of 9, 15, 25, 29, 37, and 50 contacts. ORD Series connectors are mateable and compatible with all D-Subminiature connectors conforming to MIL-DTL-24308, IEC 807-2, and IEC 807-3.

A wide assortment of cable support hoods and locking systems is available from stock.

ORD Series connectors also conform to EIA RS 232 and RS 449, and CCITTX.24 interface connection requirements.

ORD SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Glass filled DAP per ASTM-D-5948, SDG-F, UL 94V-0, green color. Insulators:

Contacts: Signal: Male contacts - precision machined

brass.

Female contacts - precision machined

high tensile copper alloy with rugged "Robi-D Open Entry" design.

Thermocouple: See page 41.

Contact Plating: Industrial performance - gold flash over

nickel plate. Other finishes available upon

request.

Shells: Steel with tin plate; zinc plate with

dichromate seal, or stainless steel, passivated. Other materials and finishes

available upon request.

Mounting Spacers: Brass, zinc plate with dichromate seal,

or clear zinc plate.

Vibration Lock Systems: Slide lock and lock tabs, steel with nick-

el plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

Thermoplastic UL 94V-0. Composite, Hoods:

brass or steel with zinc plate and

dichromate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal. Initial Contact Resistance: 0.005 ohms maximum.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm]. Working Voltage: 300 V r.m.s.

CLIMACTIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 10 days.

MECHANICAL CHARACTERISTICS:

Removable Contacts: Insert contact to rear face of insulator

and release from rear face of insulator. Size 20 male contact - 0.040 inch [1.02mm] diameter;

Size 20 female contacts - Rugged

"Robi-D Open Entry" design.

Contact Retention

Polarization:

Locking Systems:

9 lbs. [40 N]. In Insulator:

Closed barrel crimp, wire sizes 18 AWG [1.0mm²] through 24 AWG [0.25mm²]. **Contact Terminations:**

Tin-plated male shells may be dimpled for EMI/ESD ground paths. Shells:

Trapezoidally shaped shells and polar-

ized jackscrews.

Jackscrews and vibration locking sys-

Mechanical Operations: 500 operations minimum per IEC 512-5

for "'Robi-D' Open Entry" design.

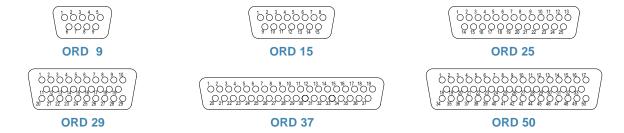


PROFESSIONAL QUALITY, CRIMP REMOVABLE CONTACT SUBMINIATURE-D CONNECTORS

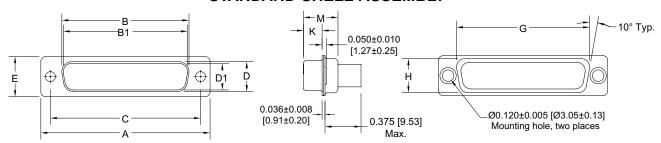
D-Sub

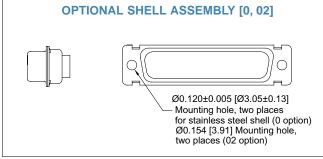
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

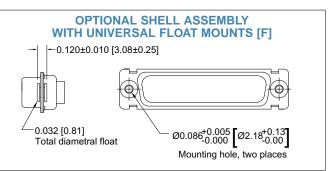
CONTACT VARIANTS FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY







CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D <u>±0.005</u> [0.13]	D1 ±0.005 [0.13]	E <u>±0.015</u> [0.38]	G <u>±0.010</u> [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
ORD 9 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
ORD 9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ORD 15 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
ORD 15 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ORD 25 M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ORD 25 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ORD 29 M	1.770 [44.96]		1.274 [32.36]	1.534 [38.96]		<u>0.450</u> [11.43]	<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.217</u> [5.51]	<u>0.426</u> [10.82]
ORD 29 F	1.770 [44.96]	<u>1.251</u> [31.78]		1.534 [38.96]	<u>0.431</u> [10.95]		<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.237</u> [6.02]	<u>0.429</u> [10.90]
ORD 37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ORD 37 F	<u>2.729</u> [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
ORD 50 M	2.635 [66.93]		<u>2.079</u> [52.81]	2.406 [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
ORD 50 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

PROFESSIONAL QUALITY, CRIMP REMOVABLE CONTACT SUBMINIATURE-D CONNECTORS

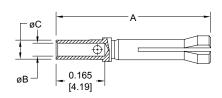


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CLOSED CRIMP BARREL

CRIMP CONTACTS

FEMALE CONTACT RUGGED 'ROBI-D' OPEN ENTRY DESIGN

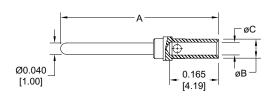


Material – Phosphor bronze. Plating – Gold flash over nickel.

Thermocouple contacts are available. See page 41.

Closed entry contacts are available. See page 43.

MALE CONTACT



Material – Brass.
Plating – Gold flash over nickel.

PART NUMBER	WIRE SIZE	A	ØB ±0.005 [0.13]	ØC ±0.005 [0.13]
FC6120D	<u>20 / 22 / 24</u>	<u>0.538</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[13.67]	[1.14]	[1.68]
MC6020D	20 / 22 / 24	<u>0.550</u>	<u>0.045</u>	<u>0.066</u>
	[0.5/0.3/0.25]	[13.97]	[1.14]	[1.68]

Additional plating options available by adding suffix to part number

add -14 for 0.000030 [0.76 microns] gold over nickel Example: FC6120D-14

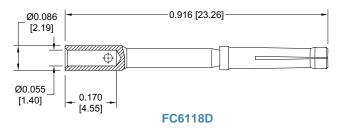
add -50 for 0.000050 [1.27 microns] gold over copper Example: MC6018D-50

Example: MC6016D-30

CRIMP CONTACTS

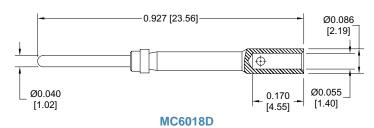
18 AWG [1.0mm2]

FEMALE CONTACT RUGGED 'ROBI-D' OPEN ENTRY DESIGN



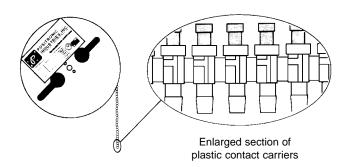
Material – Phosphor bronze. Plating – Gold flash over nickel.

MALE CONTACT



Material – Brass.
Plating – Gold flash over nickel.

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS



Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed 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 FC6120DR for a female contact.



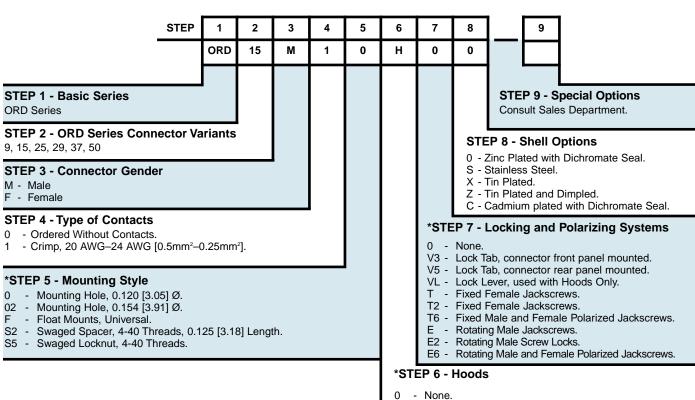
PROFESSIONAL QUALITY, CRIMP REMOVABLE CONTACT SUBMINIATURE-D CONNECTORS

D-Sub

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9 Insert "0" When Step Is Not Used



- Hood, Top Opening, Plastic.
- Hood, Side Opening, Plastic.
- Hood, Top Opening, Plastic with Rotating Male Jackscrews. Available in size 50 only.
- Y6 Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 50 only.
- Z Hood, Top or Side Opening, Robust Extended Height, Composite and Plastic with Rotating Male Jackscrews. Available in size 9, 15, 25, 37, and 50 only.
- H Hood, Top Opening, Metal. Available in size 15, 25, 37, and 50 only.
- Hood, EMI/RFI, Metal. Available in size 9, 15, 25, 37, and 50 only.
- Hood, Top or Side Opening, Plastic. Available in size 9, 15, and 25 only.

*For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

For ORD crimping information, see SD Series, p. 16 and 17. For ORD crimp tools, see RD Series, p. 42.

MILITARY QUALITY, FIXED CONTACT SUBMINIATURE-D CONNECTORS



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Positronic Industries. Inc www.connectpositronic.com

Size 20 Contacts, Fixed Military/Industrial **Quality Connectors** IEC Publication 807-2 Performance Level One **MIL-DTL-24308**

U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14098

Harmo-D Series connectors are Military/Industrial quality rectangular connectors designed for use in sheltered, mildly corrosive environments having a wide range of temperature, pressure and humidity changes. These fixed contact connectors are qualified to MIL-DTL-24308 and meet the performance requirements of IEC 807-2, Performance Level One.

Harmo-D Series connectors utilize precision machined contacts which are fixed within the connector body. The female contact features a rugged, closed entry design contact with a stainless steel shroud.

Five standard connector variants are offered in arrangements of 9, 15,



25, 37 and 50 contacts. Each connector variant is available with contact terminations for solder cup, wrap post and straight and 90° printed board mount terminations with Inch and Metric footprints. Harmo-D Series connectors are mateable and compatible with all D-Subminiature connectors conforming to IEC 807-2 and MIL-DTL-24308.

A wide assortment of printed board mounting hardware, cable support hoods and locking systems is available from stock.

Harmo-D Series connectors conform to EIA RS 232 and RS 449. and CCITT X.24 interface connection requirements.

HARMO-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled DAP per ASTM-D-5948,

SDG-F, UL 94V-0, green color.

Contacts: Male contacts - precision machined Female contacts – precision brass.

machined high tensile phosphor bronze

with stainless steel shroud.

Contact Plating: Military performance - 0.000050 inch [1.27 microns gold over copper plate. Industrial

performance – gold flash over nickel plate.

Other finishes available upon request.

Shells: Steel with tin plate; zinc and cadmium

plate with dichromate seal, stainless steel, passivated. Other materials and

finishes available upon request.

Mounting Spacers and Brackets:

Nylon plastic, or brass with tin plate; zinc

plate with dichromate seal.

Phosphor bronze or beryllium copper **Push-On Fasteners:**

with tin plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

Vibration Lock Systems: Slide lock and lock tabs, steel with nickel

Thermoplastic UL 94V-0. Composite, Hoods:

brass or steel with zinc plate and

dichromate seal.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal. Initial Contact Resistance: 0.005 ohms maximum.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm].

Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 56 days.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 20 contact, male contact - 0.040

inch [1.02mm] diameter. Female contact - closed entry design with stainless

steel shroud.

Contact Retention In Insulator: 9 lbs. [40 N].

Resistance To Solder

Iron Heat:

Shells:

Mounting To Angle

650°F [350°C] for 10 seconds duration

per IEC 512-6.

Contact Terminations: Solder cup contacts - 0.042 inch

[1.06mm] minimum hole diameter in solder style contact for 20 AWG [0.5mm²]

wire maximum.

Straight Printed Board Mount - 0.028

inch [0.71mm] diameter and 0.024 inch

[0.61mm] diameter.

90° Printed Board Mount - 0.028 [0.71mm] diameter for Inch System footprint, and 0.024 [0.61mm] diameter for

European Metric footprint.

Wrap Post - 0.025 inch [0.64mm] square.

Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and polar-

ized jackscrews.

Jackscrews and riveted fasteners with Brackets:

0.120 inch [3.05mm] clearance hole, and threaded riveted fasteners with 4-40

threads and nylon lock inserts.

Mounting To Printed Board: Rapid installation push-on fasteners and

mounting posts.

Locking Systems: Jackscrews and vibration locking

systems.

Mechanical Operations: 1000 operations minimum per IEC 512-5.



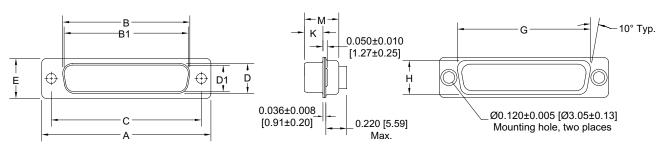
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

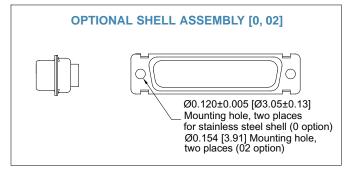
CONTACT VARIANTS

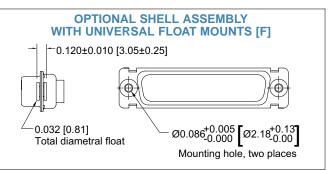
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY





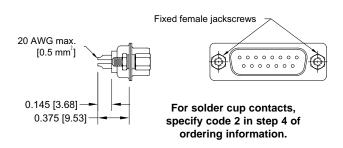


CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 ±0.005 [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	G <u>±0.010</u> [0.25]	H ±0.010 [0.25]	K <u>±0.005</u> [0.13]	M ±0.010 [0.25]
HDC 9 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
HDC 9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
HDC 15 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
HDC 15 F	1.541 [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
HDC 25 M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
HDC 25 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
HDC 37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
HDC 37 F	2.729 [69.32]	<u>2.159</u> [54.84]		<u>2.500</u> [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
HDC 50 M	2.635 [66.93]		2.079 [52.81]	2.406 [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
HDC 50 F	2.635 [66.93]	2.064 [52.43]		2.406 [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

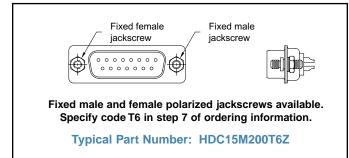


FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

SOLDER CUP CONNECTOR



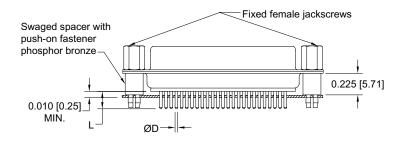
Typical Part Number: HDC15M200T2Z



STRAIGHT PRINTED BOARD MOUNT CONNECTOR

CODE NUMBER	L	ØD
3	<u>0.170</u> [4.32]	<u>0.028</u> [0.71]
32	<u>0.375</u> [9.53]	<u>0.028</u> [0.71]
36	<u>0.236</u> [6.00]	<u>0.024</u> [0.61]

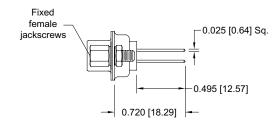
For straight printed board mount contacts, specify code no. in step 4 of ordering information.



Typical Part Number: HDC25F3S60T0

WRAP POST CONNECTOR

For wrap post contacts, specify code 6 in step 4 of ordering information.



Typical part number: HDC15F600T0



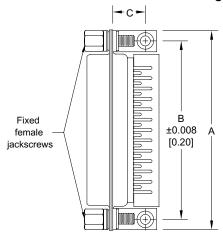
HDC25M6S50T0



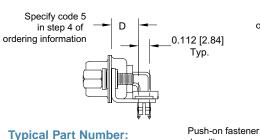
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

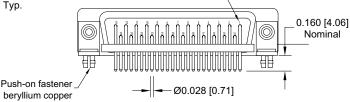
CODE 5, 0.283 [7.19] CONTACT EXTENSION

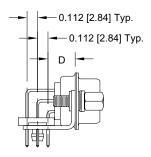


HDC**5B	3*** 0.283	[7.19] CO	NTACT EX	TENSION	
PART NUMBER	Α	В	С	D	ш
HDC9*5B3***	1.204	<u>0.984</u>	<u>0.339</u>	<u>0.283</u>	<u>0.112</u>
	[30.58]	[24.99]	[8.61]	[7.19]	[2.84]
HDC15*5B3***	<u>1.532</u>	1.312	<u>0.339</u>	<u>0.283</u>	<u>0.112</u>
	[38.91]	[33.32]	[8.61]	[7.19]	[2.84]
HDC25*5B3***	2.072	1.852	<u>0.339</u>	<u>0.283</u>	<u>0.112</u>
	[52.63]	[47.04]	[8.61]	[7.19]	[2.84]
HDC37*5B3***	<u>2.720</u>	2.500	<u>0.339</u>	<u>0.283</u>	<u>0.112</u>
	[69.09]	[63.50]	[8.61]	[7.19]	[2.84]
HDC50*5B3***	2.626	2.406	<u>0.395</u>	<u>0.283</u>	<u>0.112</u>
	[66.70]	[61.11]	[10.03]	[7.19]	[2.84]



HDC25M5R7NT2X



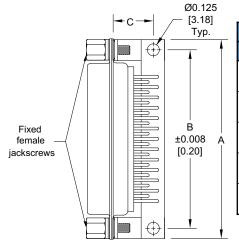


Typical Part Number: HDC50F5R7NTX

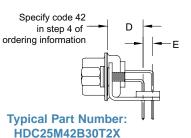
90° PRINTED BOARD MOUNT CONNECTOR CODE 42, 0.370 [9.40] CONTACT EXTENSION

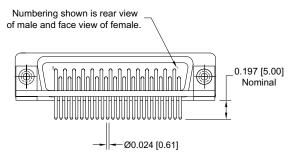
Numbering shown is rear view

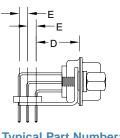
of male and face view of female.



HDC**42E	33*** 0.370	[9.40] CC	NTACT E	XTENSION	
PART NUMBER	Α	В	С	D	E
HDC9*42B3***	1.204	<u>0.984</u>	<u>0.420</u>	<u>0.370</u>	<u>0.100</u>
	[30.58]	[24.99]	[10.67]	[9.40]	[2.54]
HDC15*42B3***	<u>1.532</u>	<u>1.312</u>	<u>0.420</u>	<u>0.370</u>	<u>0.100</u>
	[38.91]	[33.32]	[10.67]	[9.40]	[2.54]
HDC25*42B3***	2.072	1.852	<u>0.420</u>	<u>0.370</u>	<u>0.100</u>
	[52.63]	[47.04]	[10.67]	[9.40]	[2.54]
HDC37*42B3***	<u>2.720</u>	2.500	<u>0.420</u>	<u>0.370</u>	<u>0.100</u>
	[69.09]	[63.50]	[10.67]	[9.40]	[2.54]
HDC50*42B3***	2.626	<u>2.406</u>	<u>0.470</u>	<u>0.370</u>	<u>0.100</u>
	[66.70]	[61.11]	[11.94]	[9.40]	[2.54]







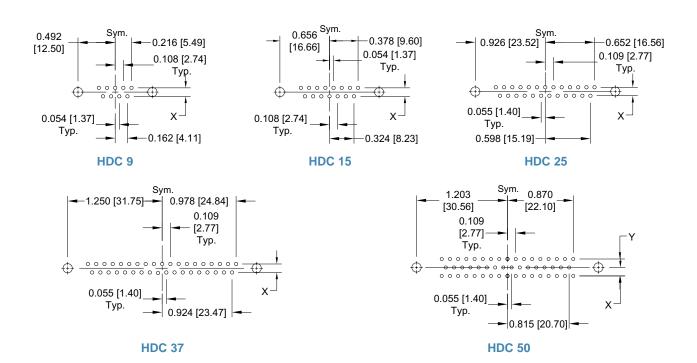
Typical Part Number: HDC50M42B30T2X



FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

Hole identification shown for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrows.



CODE NUMBER	х	Y
3	<u>0.112</u> [2.84]	<u>0.224</u> [5.69]
5	<u>0.112</u> [2.84]	<u>0.224</u> [5.69]
32	<u>0.112</u> [2.84]	<u>0.224</u> [5.69]
36	<u>0.112</u> [2.84]	<u>0.224</u> [5.69]
*42	<u>0.100</u> [2.54]	<u>0.200</u> [5.08]

*Metric system, European contact hole pattern. Suggest 0.039 [0.99] Ø hole for 0.024 [0.61] Ø contact termination positions. Suggest 0.045 [1.14] Ø hole for 0.028 [0.71] Ø contact termination positions. Suggest 0.123 \pm 0.003 [3.12 \pm 0.08] Ø hole for mounting connector with push-on fasteners.



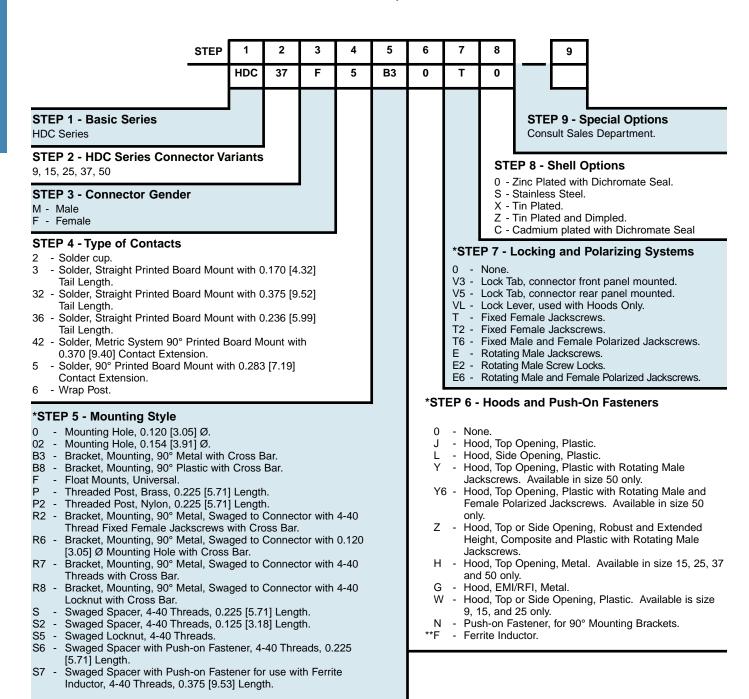


D-Sub

FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9
Insert "0" When Step Is Not Used



^{*}For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

^{**}Ferrite inductor is available on contact types 32, 36 and 6 only.

PROFESSIONAL QUALITY, STANDARD DENSITY, COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

Positronic Industries. Inc www.connectpositronic.com

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts,

Machined Contact. "Bi-Spring" or "Omega" **Compliant Termination** Repairable Contact

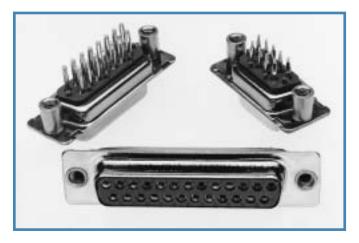
> **Professional Quality** IEC 807-2 & IEC 352-5

U.L. Recognized File #E49351

Telecommunication U.L. File #140980

PCD Series connectors are professional quality rectangular connectors with compliant terminations. The low press-in force required to install the contacts into the board eliminates printed board pressurewarp and twisting stresses which can result in expensive repair or replacement of printed boards and back panels. Female connectors are available with closed entry contacts for high reliability applications.

These connectors were designed to allow removal and replacement of individual contacts damaged in manufacturing, testing, or field use without removing the connector from the board. The compliant section of the contact causes no damage or deformation of the plated-throughhole during installation or removal from the printed board. With a minimum axial push-out force of 5 lbs. [21 N], an individual contact may be removed from both the printed board and connector insulator. A virgin contact may then be pushed into the connector insulator and platedthrough-hole, thereby accomplishing the repair of the connector with-



out the removal of the connector from the printed board.

Bi-Spring Compliant Contacts have press-in and push-out forces of 2 lbs [8.4 N] to 2.5 lbs [10.5 N]. The requirement for finished printed board hole diameter is 0.047 inches [1.19 mm]. The compliant contact will permit up to three replacement operations.

Omega Compliant Contacts have press-in and push-out forces of 4 lbs [16.8 N] to 6 lbs [25.2 N]. The requirement for the finished printed board hole diameter is 0.0394 inches [1.00mm]. This contact style offers an economically priced connector with a finished hole diameter common to many press fit contacts.

Five standard connector variants are offered in arrangement of 9, 15, 25, 37, and 50 contacts. PCD connectors are mateable and compatible with all D-Subminiature connectors conforming to IEC 807-2, IEC 807-3, and dimensional requirements of MIL-DTL-24308.

COMPLIANT PRESS-D CONNECTOR TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled polyester per MIL-M-24519, U.L. 94V-0, blue color.

Male and female contacts are precision

Contacts: machined-high tensile phosphor bronze.

Contact Plating: Professional performance - Gold flash over nickel plate. Other finishes available upon request.

Steel with tin plate or zinc plate with dichromate seal. Other materials and finishes available upon Shells:

request.

Mounting Spacers and Brackets: Brass with tin plate; zinc plate with dichromate seal.

Jackscrew System: Steel; zinc plate with dichromate seal.

Vibration Lock Systems: Lock tabs, nickel plated steel,

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

Initial Contact Resistance

of Connection: Change in Contact

Resistance of Connection after Mechanical, Electrical

or Climatic Conditioning:

Less than 0.001 ohms increase per IEC 512-2,

Less than 0.001 ohms per IEC 512-2, Test 2a.

Test 2a.

Gas-tight Connections Test:

Less than 0.001 ohms increase in contact resistance after 1 hour per EIA 364, TP36, Method One.

ELECTRICAL CHARACTERISTICS OF CONNECTOR:

Contact Current Rating: 7.5 amperes, nominal.

Initial Contact Resistance: 0.008 ohms maximum per IEC 512-2, Test 2a.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms. Clearance and Creepage

Distance [minimum]:

0.039 inch [1.0mm].

Working Voltage: 300 V.

CLIMATIC CHARACTERISTICS: Temperature Range: -55°C to +125°C.

MECHANICAL CHARACTERISTICS:

Repairable Contacts Solid Metal Construction:

Contact Retention In Insulator:

Compliant Termination Bi-Spring Construction:

Press-In Force of Contact into plated-through-hole of 0.125 inch [3.18mm] printed board:

Push-Out Force of Contact from plated-through-hole of 0.125 inch [3.18mm] printed board:

Compliant Termination Omega Construction:

Press-In Force of Contact into plated-through-hole of 0.125 inch [3.18mm] printed board:

Push-Out Force of Contact from plated-through-hole of 0.125 inch [3.18mm] printed board:

Vibration Test per MIL-STD 1344, Method 2005, Test Conditioning: **Connector Polarization:**

Locking System: **Mechanical Operations:**

Size 20 contact male - 0.040 inch [1.02mm] diameter: female contact - rugged open-entry design or closed entry design.

5 lbs. [21 N] minimum.

0.053 inch [1.35mm] diameter with 0.034 inch [0.86mm] lead-in diameter. Offered with three termination lengths for 0.063 inch [1.60mm] 0.093 inch [2.36mm] 0.125 [3.18mm] thick printed boards or back planes.

2.5 lbs. [10.5 N].

2 lbs. [8.4 N].

0.047 inch [1.18mm] diameter with 0.022 inch [0.56mm] lead-in diameter. A single termination length accommodates any thickness printed board or backplane.

6 lbs. [25.2 N].

4 lbs. [16.8 N].

No electrical discontinuity of 1 µs or greater.

Trapezoidal shaped shells and polarized jackscrews.

Jackscrews and vibration locking systems.

500 operations per IEC 512-5.



PROFESSIONAL QUALITY, STANDARD DENSITY, COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

D-Sub

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

PCD CONTACT VARIANTS FACE VIEW OF MALE CONNECTOR OR REAR VIEW OF FEMALE CONNECTOR



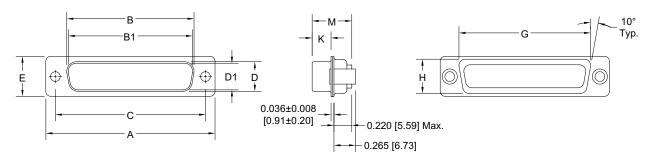
ნგინინინი იციეციცი **PCD 15** \(\bar{1} \ba

PCD 25

PCD 37

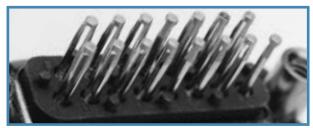
PCD 50

STANDARD SHELL ASSEMBLY



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]	G <u>±0.010</u> [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
PCD 9 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
PCD 9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCD 15 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
PCD 15 F	1.541 [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
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PCD 25 F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
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PCD 37 F	2.729 [69.32]	<u>2.159</u> [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCD 50 M	2.635 [66.93]		2.079 [52.81]	2.406 [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
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"Bi-Spring" Compliant Termination



"Omega" Compliant Termination

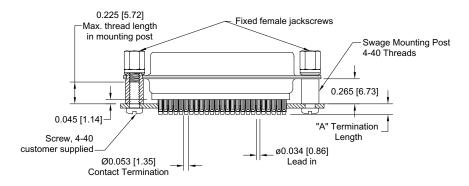


PROFESSIONAL QUALITY, STANDARD DENSITY, COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

BI-SPRING COMPLIANT PRESS-FIT CONNECTOR



Typical Part Number: PCD25F9S0T20



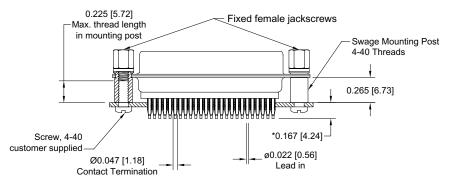
Detail of Bi–Spring contacts

For "Bi-Spring" Press-Fit contacts, specify code 9, 92 or 93 in step 4 of ordering information.

*CONTACT TERMINATION LENGTH

BOARD THICKNESS	A	CONTACT TYPE
0.063 [1.60]	0.153 [3.89]	9
0.093 [2.36]	0.183 [4.65]	92
0.125 [3.18]	0.218 [5.54]	93

OMEGA COMPLIANT PRESS-FIT CONNECTOR



Typical Part Number: PCD25F98S0T20



For "Omega" Press-Fit contacts, specify code 98 in step 4 of ordering information.

^{*}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.

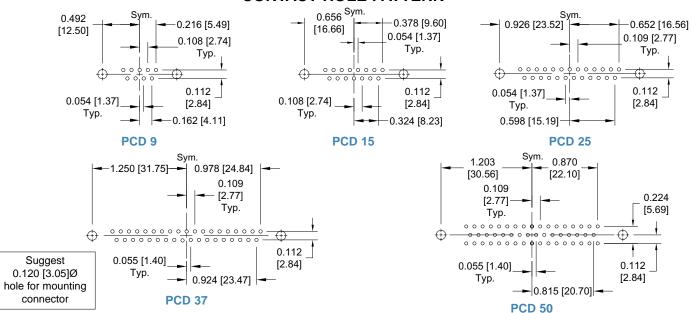


PROFESSIONAL QUALITY, STANDARD DENSITY, COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

D-Sub

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

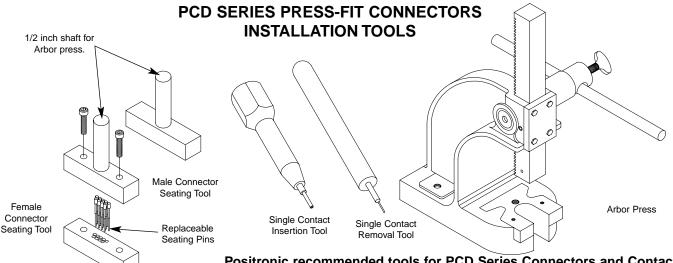
COMPLIANT PRESS-FIT CONNECTOR PRINTED BOARD **CONTACT HOLE PATTERN**



For Bi-Spring contact terminations: Suggest hole with 0.0001 [0.003] minimum solder over 0.001 [0.03] minimum copper plate. Final hole size is Ø 0.047±0.002 [1.19±0.05].

Note: For other PCB plating compositions, i.e. ENIG, (Electroless Nickel, Immersion Gold), consult Technical Sales.

For Omega contact terminations: Suggest Ø 0.0453±0.0010 [1.150±0.025] hole with 0.0005 [0.013] minimum tin or tin/lead over 0.001 [0.03] minimum copper plate. Final hole size is Ø 0.0394+0.0035-0.0024 [1.000+0.090-0.060].



Positronic recommended tools for PCD Series Connectors and Contacts

Series	Connecto	or Seating	Single Cont	act Insertion	Single Contact					
Series	Male	Female	Male	Female	Removal					
PCD 9	9512-1-0-41	9512-6-0-41								
PCD 15	9512-2-0-41	9512-7-0-41	9512-100-0	9512-101-0	9512-102-0					
PCD 25	9512-3-0-41	9512-8-0-41	FOR ALL SIZES	FOR ALL SIZES	FOR ALL SIZES					
PCD 37	9512-4-0-41	9512-9-0-41	ALL SIZES	ALL SIZES	ALL GIZES					
PCD 50	9512-5-0-41	9512-10-0-41								
Arbor press for connector seating tools-9530-1-0 1 ton capacity 4 inch throat										
Replacement pin	s for connector se	eating tools.	Female - 855-658-0-41							

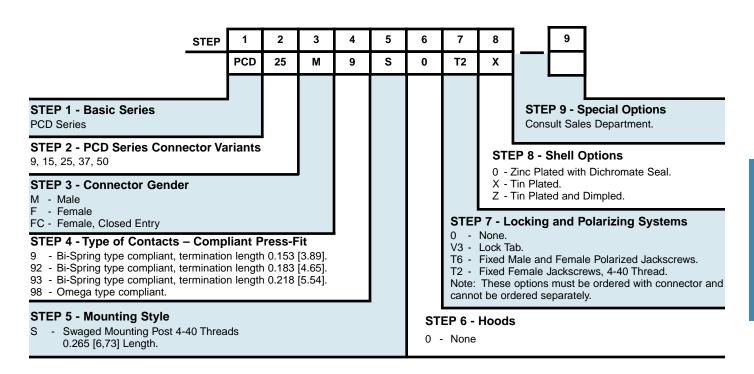
PROFESSIONAL QUALITY, STANDARD DENSITY, COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9
Insert "0" When Step Is Not Used



REPLACEMENT CONTACTS PART NUMBERS

CODE	MALE	OPEN ENTRY FEMALE	CLOSED ENTRY FEMALE
9	4305-13-1-*	4306-14-1-*	4306-139-1-*
92	4305-13-2-*	4306-14-2-*	4306-139-2-*
93	4305-13-3-*	4306-14-3-*	4306-139-3-*
98	4305-15-0-*	4306-17-0-*	4306-189-0-*

- * PLATING OPTIONS FOR REPLACEMENT CONTACTS
 - -14 GOLD 0.000030 [0.76 MICRONS] OVER NICKEL PLATE
 - -51 GOLD FLASH OVER NICKEL PLATE



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FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 22 Contacts **Fixed Machined Contact.** "Omega" **Compliant Termination** Repairable Contact

Professional Quality IEC 807-2 & IEC 352-5

U.L. Recognized File #E49351

Telecommunication U.L. File #140980



PCDD Series connectors are professional quality rectangular connectors with compliant termination repairable contacts. The low pressin force required to install the contacts into the board eliminates printed board pressure-warp and twisting stresses which can result in expensive repair or replacement of printed boards and back panels. Female connectors are available with closed entry contacts for high reliability applications.

These connectors were designed to allow removal and replacement of individual contacts damaged in manufacturing, testing, or field use without removing the connector from the board. The compliant section of the contact causes no damage or deformation of the plated-throughhole during installation or removal from the printed board. With a minimum axial push-out force of 5 lbs [21 N], an individual contact may be removed from both the printed board and connector insulator and plated-through-hole, thereby accomplishing the repair of the connector without the removal of the connector from the printed board.

Omega Compliant Contacts have press-in and push-out forces of 4 lbs [16.8 N] to 6 lbs [25.2 N]. The requirement for the finished printed board hole diameter is 0.0394 inch [1.00 mm]. This contact style offers an economically priced connector with a finished hole diameter common to many press fit contacts.

Six standard connector variants are offered in arrangements of 15, 26, 44, 62, 72, and 104 contacts. PCDD connectors are mateable and compatible with all Subminiature-D connectors conforming to dimensional requirements of MIL-DTL-24308.

COMPLIANT PRESS-D CONNECTOR TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Glass filled polyester per MIL-M-24519, U.L. 94V-0, blue color. Insulator:

Contacts: Male and female contacts are precision machined-high tensile phosphor bronze.

Professional performance - Gold flash over nickel Contact Plating: plate. Other finishes available upon request.

Steel with tin plate or zinc plate with dichromate seal. Other materials and finishes available upon Shells:

Mounting Spacers and Brackets: Brass with tin plate; zinc plate with dichromate

Jackscrew System: Steel; zinc plate with dichromate seal. **Vibration Lock Systems:** Lock tabs, nickel plated steel.

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

Initial Contact Resistance

of Connection:

Change in Contact Resistance of Connection after Mechanical, Electrical or Climatic Conditioning:

Gas-tight

Connections Test:

Less than 0.001 ohms per IEC 512-2, Test 2a.

Less than 0.001 ohms increase per IEC 512-2,

Less than 0.001 ohms increase in contact resis-

tance after 1 hour per EIA 364, TP36, Method

ELECTRICAL CHARACTERISTICS OF CONNECTOR:

Contact Current Rating: 5 amperes, nominal.

Initial Contact Resistance: 0.010 ohms maximum per IEC 512-2, Test 2a.

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage Distance [minimum]: 0.042 inch [1.02 mm].

Working Voltage: 300 V.

MECHANICAL CHARACTERISTICS:

Repairable Contacts Solid Metal Construction:

Size 22 contact male - 0.030 inch [0.76 mm] diameter: female contact - rugged open-entry design or closed entry design.

Contact Retention 5 lbs. [21 N] minimum.

In Insulator: Compliant Termination

Omega Construction:

0.047 inch [1.18mm] diameter with 0.022 inch [0.56mm] lead-in diameter. A single termination length accommodates any thickness printed board or backplane.

Press-In Force of Contact into plated-through-hole of 0.125 inch [3.18mm] printed board:

Push-Out Force of Contact from plated-through-hole of 0.125 inch [3.18mm]

printed board:

Vibration Test per MIL-STD 1344, Method 2005, Test Conditioning: **Connector Polarization:**

6 lbs. [25.2 N].

4 lbs. [16.8 N].

No electrical discontinuity of 1 us or greater. Trapezoidal shaped shells and polarized

iackscrews.

Locking System: Jackscrews and vibration locking systems.

Mechanical Operations: 500 operations per IEC 512-5.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

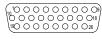
PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

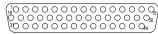
Positronic Industries, Inc. www.connectpositronic.com

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

PCDD CONTACT VARIANTS FACE VIEW OF MALE AND REAR VIEW OF FEMALE



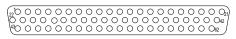


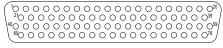


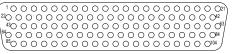
PCDD 26



PCDD 44





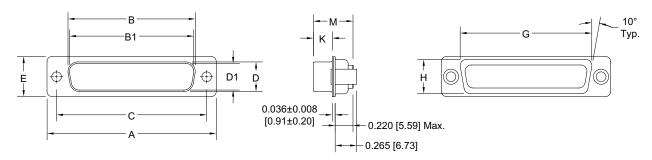


PCDD 62

PCDD 78

PCDD 104

STANDARD SHELL ASSEMBLY



CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D <u>±0.005</u> [0.13]	D1 ±0.005 [0.13]	E <u>±0.015</u> [0.38]	G <u>±0.010</u> [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
PCDD 15 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
PCDD 15 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCDD 26 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
PCDD 26 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCDD 44 M	2.088 [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
PCDD 44 F	2.088 [53.04]	1.511 [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCDD 62 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
PCDD 62 F	2.729 [69.32]	2.159 [54.84]		<u>2.500</u> [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCDD 78 M	2.635 [66.93]		2.079 [52.81]	2.406 [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
PCDD 78 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
PCDD 104 M	2.729 [69.32]		2.212 [56.18]	2.500 [63.50]		<u>0.503</u> [12.78]	<u>0.668</u> [16.97]	2.302 [58.47]	<u>0.596</u> [15.14]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
PCDD 104 F	2.729 [69.32]	2.189 [55.60]		2.500 [63.50]	<u>0.485</u> [12.32]		<u>0.668</u> [16.97]	2.302 [58.47]	<u>0.596</u> [15.14]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]



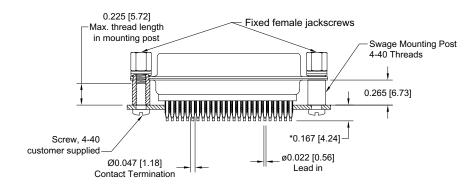
"Omega" Compliant **Termination**



PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

OMEGA COMPLIANT PRESS-FIT CONNECTOR



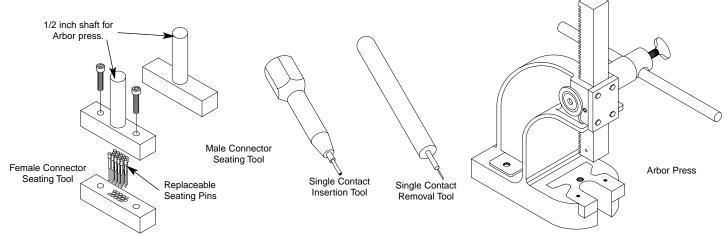
Typical Part Number: PCDD44F98S0T20



For "Omega" Press-Fit contacts, specify code 98 in step 4 of ordering information.

*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.

PCDD SERIES PRESS-FIT CONNECTORS INSTALLATION TOOLS



Positronic recommended tools for PCDD Series Connectors and Contacts

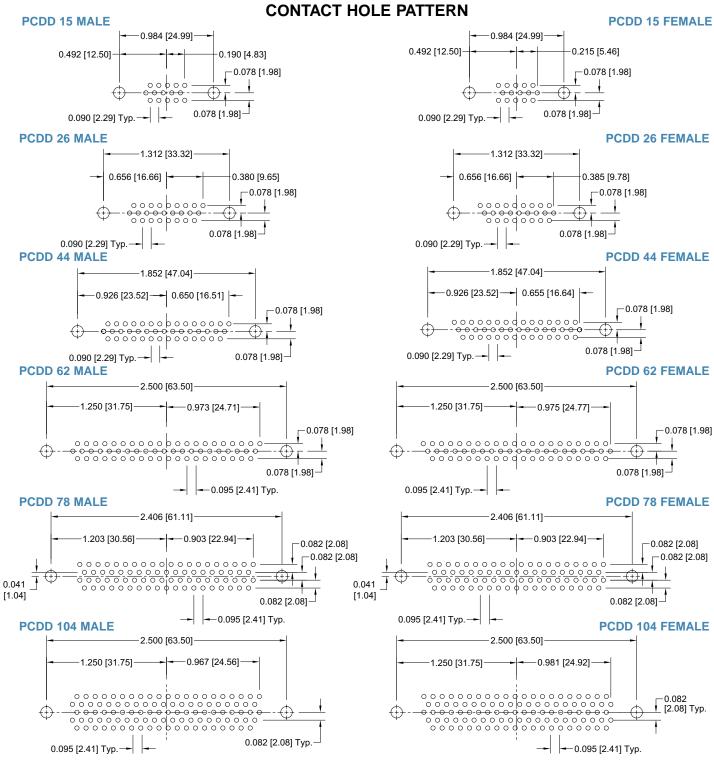
i ositionic rect	Jiiiiieiiueu	rositionic recommended tools for redb series connectors and contacts									
Series	Connecto	or Seating	Single Cont	act Insertion	Single Contact						
Series	Male	Female	Male	Female	Removal						
PCDD 15	9512-1-0-41	9512-11-0-41									
PCDD 26	9512-2-0-41	9512-12-0-41									
PCDD 44	9512-3-0-41	9512-13-0-41	9512-103-0	9512-104-0 FOR	9512-105-0 FOR						
PCDD 62	9512-4-0-41	9512-14-0-41	FOR ALL SIZE	ALL SIZE	ALL SIZE						
PCDD 78	9512-5-0-41	9512-15-0-41									
PCDD 104	9512-16-0-41	9512-17-0-41									
Arbor press for co	Arbor press for connector seating tools-9530-1-0			capacity	4 inch throat						
Replacement pin	s for connector s	eating tools,	Female - 8	55-751-0-41							

PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

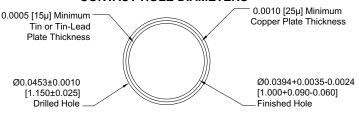


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

COMPLIANT PRESS-FIT CONNECTOR PRINTED BOARD CONTACT HOLF PATTERN



CONTACT HOLE DIAMETERS



Note: For other PCB plating compositions, i.e. ENIG, (Electroless Nickel, Immersion Gold), consult Technical Sales.



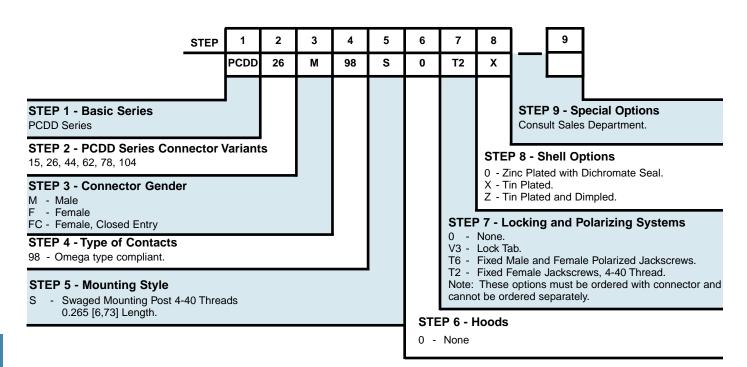
PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS

D-Sub

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9
Insert "0" When Step Is Not Used



REPLACEMENT CONTACTS PART NUMBERS

MALE	OPEN ENTRY FEMALE	CLOSED ENTRY FEMALE
4803-21-0-*	4804-25-0-*	4804-249-0-*

- * PLATING OPTIONS FOR REPLACEMENT CONTACTS
 - -14 GOLD 0.000030 [0.76 MICRONS] OVER NICKEL PLATE
 - -51 GOLD FLASH OVER NICKEL PLATE

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING



*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic Industries offers the following listing of connectors and connector accessories, which are products qualified under Military Specification MIL-DTL-24308, MIL-C-39029 and MIL-C-85049. For additional Q.P.L. connectors, please consult the factory sales office.

MILITARY ART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/1-1	HDC9F20000-50	M24308/2-16	DD104F10000-50	M24308/2-354	RD15F1F000-50-400.0	M24308/2-534	DD44F10000-50-799.1
M24308/1-1F	HDC9F2000C-50	M24308/2-16F	DD104F1000C-50	M24308/2-354F	RD15F1F00C-50-400.0	M24308/2-535	DD62F10000-50-799.1
M24308/1-2	HDC15F20000-50	M24308/2-17	DD15F10000-50-400.1	M24308/2-355	RD25F1F000-50-400.0	M24308/2-536	DD78F10000-50-799.1
M24308/1-2F	HDC15F2000C-50	M24308/2-17F	DD15F1000C-50-400.1	M24308/2-355F	RD25F1F00C-50-400.0	M24308/2-537	DD104F10000-50-799.1
M24308/1-3	HDC25F20000-50	M24308/2-18	DD26F10000-50-400.1	M24308/2-356	RD37F1F000-50-400.0	M24308/2-560	RD9F00000-799.0
M24308/1-3F	HDC25F2000C-50	M24308/2-18F	DD26F1000C-50-400.1	M24308/2-356F	RD37F1F00C-50-400.0	M24308/2-561	RD15F00000-799.0
M24308/1-4	HDC37F20000-50	M24308/2-19	DD44F10000-50-400.1	M24308/2-357	RD50F1F000-50-400.0	M24308/2-562	RD25F00000-799.0
M24308/1-4F	HDC37F2000C-50	M24308/2-19F	DD44F1000C-50-400.1	M24308/2-357F	RD50F1F00C-50-400.0	M24308/2-563	RD37F00000-799.0
M24308/1-5	HDC50F20000-50	M24308/2-20	DD62F10000-50-400.1	M24308/2-358	DD15F1F000-50-400.1	M24308/2-564	RD50F00000-799.0
M24308/1-5F	HDC50F2000C-50	M24308/2-20F	DD62F1000C-50-400.1	M24308/2-358F	DD15F1F00C-50-400.1	M24308/2-565	DD15F00000-799.0
M24308/1-23	HDC9F2F000-50	M24308/2-21	DD78F10000-50-400.1	M24308/2-359	DD26F1F000-50-400.1	M24308/2-566	DD26F00000-799.0
M24308/1-23F	HDC9F2F00C-50	M24308/2-21F	DD78F1000C-50-400.1	M24308/2-359F	DD26F1F00C-50-400.1	M24308/2-567	DD44F00000-799.0
M24308/1-24	HDC15F2F000-50	M24308/2-22	DD104F10000-50-400.1	M24308/2-360	DD44F1F000-50-400.1	M24308/2-568	DD62F00000-799.0
						M24308/2-569	DD78F00000-799.0
M24308/1-24F	HDC15F2F00C-50	M24308/2-22F	DD104F1000C-50-400.1	M24308/2-360F	DD44F1F00C-50-400.1		
M24308/1-25	HDC25F2F000-50	M24308/2-281	RD9F00000	M24308/2-361	DD62F1F000-50-400.1	M24308/2-570	DD104F00000-799.0
M24308/1-25F	HDC25F2F00C-50	M24308/2-281F	RD9F0000C	M24308/2-361F	DD62F1F00C-50-400.1	M24308/2-585	RD9F1F000-50-799.2
M24308/1-26	HDC37F2F000-50	M24308/2-282	RD15F00000	M24308/2-362	DD78F1F000-50-400.1	M24308/2-586	RD15F1F000-50-799.2
M24308/1-26F	HDC37F2F00C-50	M24308/2-282F	RD15F0000C	M24308/2-362F	DD78F1F00C-50-400.1	M24308/2-587	RD25F1F000-50-799.2
M24308/1-27	HDC50F2F000-50	M24308/2-283	RD25F00000	M24308/2-363	DD104F1F000-50-400.1	M24308/2-588	RD37F1F000-50-799.2
M24308/1-27F	HDC50F2F00C-50	M24308/2-283F	RD25F0000C	M24308/2-363F	DD104F1F00C-50-400.1	M24308/2-589	RD50F1F000-50-799.2
M24308/1-34	HDC9F20000-50-799.0	M24308/2-284	RD37F00000	M24308/2-482	RD9F0F000	M24308/2-590	DD15F1F000-50-799.2
M24308/1-35	HDC15F20000-50-799.0	M24308/2-284F	RD37F0000C	M24308/2-482F	RD9F0F00C	M24308/2-591	DD26F1F000-50-799.2
M24308/1-36	HDC25F20000-50-799.0	M24308/2-285	RD50F00000	M24308/2-483	RD15F0F000	M24308/2-592	DD44F1F000-50-799.2
M24308/1-37	HDC37F20000-50-799.0	M24308/2-285F	RD50F0000C	M24308/2-483F	RD15F0F00C	M24038/2-593	DD62F1F000-50-799.2
M24308/1-38	HDC50F20000-50-799.0	M24308/2-286	DD15F00000	M24308/2-484	RD25F0F000	M24308/2-594	DD78F1F000-50-799.2
M24308/1-56	HDC9F2F000-50-799.2	M24308/2-286F	DD15F0000C	M24308/2-484F	RD25F0F00C	M24308/2-595	DD104F1F000-50-799
M24308/1-57	HDC15F2F000-50-799.2	M24308/2-287	DD26F00000	M24308/2-485	RD37F0F000	M24308/2-596	RD9F1F000-50-799.3
M24308/1-58	HDC25F2F000-50-799.2	M24308/2-287F	DD26F0000C	M24308/2-485F	RD37F0F00C	M24308/2-597	RD15F1F000-50-799.3
M24308/1-59	HDC37F2F000-50-799.2	M24308/2-288	DD44F00000	M24308/2-486	RD50F0F000	M24308/2-598	RD25F1F000-50-799.3
M24308/1-60	HDC50F2F000-50-799.2	M24308/2-288F	DD44F0000C	M24308/2-486F	RD50F0F00C	M24308/2-599	RD37F1F000-50-799.3
M24308/2-1	RD9F10000-50	M24308/2-289	DD62F00000	M24308/2-487	DD15F0F000	M24308/2-600	RD50F1F000-50-799.3
M24308/2-1F	RD9F1000C-50	M24308/2-289F	DD62F0000C	M24308/2-487F	DD15F0F00C	M24308/2-601	DD15F1F000-50-799.3
M24308/2-2	RD15F10000-50	M24308/2-290	DD78F00000	M24308/2-488	DD26F0F000	M24308/2-602	DD26F1F000-50-799.3
M24308/2-2F	RD15F1000C-50	M24308/2-290F	DD78F0000C	M24308/2-488F	DD26F0F00C	M24308/2-603	DD44F1F000-50-799.3
M24308/2-3	RD25F10000-50	M24308/2-291	DD104F00000	M24308/2-489	DD44F0F000	M24308/2-604	DD62F1F000-50-799.3
M24308/2-3F	RD25F1000C-50	M24308/2-291F	DD104F0000C	M24308/2-489F	DD44F0F00C	M24308/2-605	DD78F1F000-50-799.3
M24308/2-4	RD37F10000-50	M24308/2-342	RD9F1F000-50	M24308/2-490	DD62F0F000	M24308/2-606	DD104F1F000-50-799.
M24308/2-4F	RD37F1000C-50	M24308/2-342F	RD9F1F00C-50	M24308/2-490F	DD62F0F00C	M24308/2-607	RD9F0F000-799.2
M24308/2-5	RD50F10000-50	M24308/2-343	RD15F1F000-50	M24308/2-491	DD78F0F000	M24308/2-608	RD15F0F000-799.2
M24308/2-5F	RD50F1000C-50	M24308/2-343F	RD15F1F00C-50	M24308/2-491F	DD78F0F00C	M24308/2-609	RD25F0F000-799.2
M24308/2-6	RD9F10000-50-400.0	M24308/2-344	RD25F1F000-50	M24308/2-492	DD104F0F000	M24308/2-610	RD37F0F000-799.2
					DD104F0F00C		RD50F0F000-799.2
M24308/2-6F	RD9F1000C-50-400.0	M24308/2-344F	RD25F1F00C-50	M24308/2-492F		M24308/2-611	
M24308/2-7	RD15F10000-50-400.0	M24308/2-345	RD37F1F000-50	M24308/2-516	RD9F10000-50-799.0	M24308/2-612	DD15F0F000-799.2
M24308/2-7F	RD15F1000C-50-400.0	M24308/2-345F	RD37F1F00C-50	M24308/2-517	RD15F10000-50-799.0	M24308/2-613	DD26F0F000-799.2
M24308/2-8	RD25F10000-50-400.0	M24308/2-346	RD50F1F000-50	M24308/2-518	RD25F10000-50-799.0	M24308/2-614	DD44F0F000-799.2
M24308/2-8F	RD25F1000C-50-400.0	M24308/2-346F	RD50F1F00C-50	M24308/2-519	RD37F10000-50-799.0	M24308/2-615	DD62F0F000-799.2
M24308/2-9	RD37F10000-50-400.0	M24308/2-347	DD15F1F000-50	M24308/2-520	RD50F10000-50-799.0	M24308/2-616	DD78F0F000-799.2
M24308/2-9F	RD37F1000C-50-400.0	M24308/2-347F	DD15F1F00C-50	M24308/2-521	RD9F10000-50-799.1	M24308/2-617	DD104F0F000-799.2
M24308/2-10	RD50F10000-50-400.0	M24308/2-348	DD26F1F000-50	M24308/2-522	RD15F10000-50-799.1	M24308/3-1	HDC9M20000-50
M24308/2-10F	RD50F1000C-50-400.0	M24308/2-348F	DD26F1F00C-50	M24308/2-523	RD25F10000-50-799.1	M24308/3-1F	HDC9M2000C-50
M24308/2-11	DD15F10000-50	M24308/2-349	DD44F1F000-50	M24308/2-524	RD37F10000-50-799.1	M24308/3-2	HDC15M20000-50
M24308/2-11F	DD15F1000C-50	M24308/2-349F	DD44F1F00C-50	M24308/2-525	RD50F10000-50-799.1	M24308/3-2F	HDC15M2000C-50
M24308/2-12	DD26F10000-50	M24308/2-350	DD62F1F000-50	M24308/2-526	DD15F10000-50-799.0	M24308/3-3	HDC25M20000-50
M24308/2-12F	DD26F1000C-50	M24308/2-350F	DD62F1F00C-50	M24308/2-527	DD26F10000-50-799.0	M24308/3-3F	HDC25M2000C-50
M24308/2-13	DD44F10000-50	M24308/2-351	DD78F1F000-50	M24308/2-528	DD44F10000-50-799.0	M24308/3-4	HDC37M20000-50
M24308/2-13F	DD44F1000C-50	M24308/2-351F	DD78F1F00C-50	M24308/2-529	DD62F10000-50-799.0	M24308/3-4F	HDC37M2000C-50
M24308/2-14	DD62F10000-50	M24308/2-352	DD104F1F000-50	M24308/2-530	DD78F10000-50-799.0	M24308/3-5	HDC50M20000-50
M24308/2-14F	DD62F1000C-50	M24308/2-352F	DD104F1F00C-50	M24308/2-531	DD104F10000-50-799.0	M24308/3-5F	HDC50M2000C-50
M24308/2-15	DD78F10000-50	M24308/2-353	RD9F1F000-50-400.0	M24308/2-532	DD15F10000-50-799.1	M24308/3-12	HDC9M2F000-50
M24308/2-15F	DD78F1000C-50	M24308/2-353F	RD9F1F00C-50-400.0	M24308/2-533	DD26F10000-50-799.1	M24308/3-12F	HDC9M2F00C-50



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MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING

*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/3-13	HDC15M2F000-50	M24308/4-15F	DD78M1000C-50	M24308/4-324	RD9M0F000	M24308/4-415	RD37M1F000-50-799.3
M24308/3-13F	HDC15M2F00C-50	M24308/4-16	DD104M10000-50	M24308/4-324F	RD9M0F00C	M24308/4-416	RD50M1F000-50-799.3
M24308/3-14	HDC25M2F000-50	M24308/4-16F	DD104M1000C-50	M24308/4-325	RD15M0F000	M24308/4-417	DD15M1F000-50-799.3
M24308/3-14F	HDC25M2F00C-50	M24308/4-17	DD15M10000-50-400.1	M24308/4-325F	RD15M0F00C	M24308/4-418	DD26M1F000-50-799.3
M24308/3-15	HDC37M2F000-50	M24308/4-17F	DD15M1000C-50-400.1	M24308/4-326	RD25M0F000	M24308/4-419	DD44M1F000-50-799.3
M24308/3-15F	HDC37M2F00C-50	M24308/4-18	DD26M10000-50-400.1	M24308/4-326F	RD25M0F00C	M24308/4-420	DD62M1F000-50-799.3
M24308/3-16	HDC50M2F000-50	M24308/4-18F	DD26M1000C-50-400.1	M24308/4-327	RD37M0F000	M24308/4-421	DD78M1F000-50-799.3
M24308/3-16F	HDC50M2F00C-50	M24308/4-19	DD44M10000-50-400.1	M24308/4-327F	RD37M0F00C	M24308/4-422	DD104M1F000-50-799.3
M24308/3-17	HDC9M2F000-50	M24308/4-19F	DD44M1000C-50-400.1	M24308/4-328	RD50M0F000	M24308/4-423	RD9M0F000-799.2
M24308/3-17F	HDC9M2F00C-50	M24308/4-20	DD62M10000-50-400.1	M24308/4-328F	RD50M0F00C	M24308/4-424	RD15M0F000-799.2
M24308/3-18	HDC15M2F000-50	M24308/4-20F	DD62M1000C-50-400.1	M24308/4-335	RD9M10000-50-799.0	M24308/4-425	RD25M0F000-799.2
M24308/3-18F	HDC15M2F00C-50	M24308/4-21	DD78M10000-50-400.1	M24308/4-336	RD15M10000-50-799.0	M24308/4-426	RD37M0F000-799.2
M24308/3-19	HDC25M2F000-50	M24308/4-21F	DD78M1000C-50-400.1	M24308/4-337	RD25M10000-50-799.0	M24308/4-427	RD50M0F000-799.2
M24308/3-19F	HDC25M2F00C-50	M24308/4-22	DD104M10000-50-400.1	M24308/4-338	RD37M10000-50-799.0	M24308/4-428	DD15M0F000-799.2
M24308/3-20	HDC37M2F000-50	M24308/4-22F	DD104M1000C-50-400.1	M24308/4-339	RD50M10000-50-799.0	M24308/4-429	DD26M0F000-799.2
M24308/3-20F	HDC37M2F00C-50	M24308/4-259	RD9M00000	M24308/4-340	RD9M10000-50-799.1	M24308/4-430	DD44M0F000-799.2
M24308/3-21	HDC50M2F000-50	M24308/4-259F	RD9M0000C	M24308/4-341	RD15M10000-50-799.1	M24308/4-431	DD62M0F000-799.2
M24308/3-21F	HDC50M2F00C-50	M24308/4-260	RD15M00000	M24308/4-342	RD25M10000-50-799.1	M24308/4-432	DD78M0F000-799.2
M24308/3-23	HDC9M20000-50-799.0	M24308/4-260F	RD15M0000C	M24308/4-343	RD37M10000-50-799.1	M24308/4-433	DD104M0F000-799.2
M24308/3-24	HDC15M20000-50-799.0	M24308/4-261	RD25M00000	M24308/4-344	RD50M10000-50-799.1	M24308/4-435	RD9M1F000-50
M24308/3-25	HDC25M20000-50-799.0	M24308/4-261F	RD25M0000C	M24308/4-345	DD15M10000-50-799.0	M24308/4-435F	RD9M1F00C-50
M24308/3-26	HDC37M20000-50-799.0	M24308/4-262	RD37M00000	M24308/4-346	DD26M10000-50-799.0	M24308/4-436	RD15M1F000-50
M24308/3-27	HDC50M20000-50-799.0	M24308/4-262F	RD37M0000C	M24308/4-347	DD44M10000-50-799.0	M24308/4-436F	RD15M1F00C-50
M24308/3-39	HDC9M2F000-50-799.2	M24308/4-263	RD50M00000	M24308/4-348	DD62M10000-50-799.0	M24308/4-437	RD25M1F000-50
M24308/3-40	HDC15M2F000-50-799.2	M24308/4-263F	RD50M0000C	M24308/4-349	DD78M10000-50-799.0	M24308/4-437F	RD25M1F00C-50
M24308/3-41	HDC25M2F000-50-799.2	M24308/4-264	DD15M00000	M24308/4-350	DD104M10000-50-799.0	M24308/4-438	RD37M1F000-50
M24308/3-42	HDC37M2F000-50-799.2	M24308/4-264F	DD15M0000C	M24308/4-351	DD15M10000-50-799.1	M24308/4-438F	RD37M1F00C-50
M24308/3-43	HDC50M2F000-50-799.2	M24308/4-265	DD26M00000	M24308/4-352	DD26M10000-50-799.1	M24308/4-439	RD50M1F000-50
M24308/4-1	RD9M10000-50	M24308/4-265F	DD26M0000C	M24308/4-353	DD44M10000-50-799.1	M24308/4-439F	RD50M1F00C-50
M24308/4-1F	RD9M1000C-50	M24308/4-266	DD44M00000	M24308/4-354	DD62M10000-50-799.1	M24308/4-440	DD15M10000-50
M24308/4-2	RD15M10000-50	M24308/4-266F	DD44M0000C	M24308/4-355	DD78M10000-50-799.1	M24308/4-440F	DD15M1000C-50
M24308/4-2F	RD15M1000C-50	M24308/4-267	DD62M00000	M24308/4-356	DD104M10000-50-799.1	M24308/4-441	DD26M10000-50
M24308/4-3	RD25M10000-50	M24308/4-267F	DD62M0000C	M24308/4-357	RD9M00000-799.0	M24308/4-441F	DD26M1000C-50
M24308/4-3F	RD25M1000C-50	M24308/4-268	DD78M00000	M24308/4-358	RD15M00000-799.0	M24308/4-442	DD44M10000-50
M24308/4-4	RD37M10000-50	M24308/4-268F	DD78M0000C	M24308/4-359	RD25M00000-799.0	M24308/4-442F	DD44M1000C-50
M24308/4-4F	RD37M1000C-50	M24308/4-269	DD104M00000	M24308/4-360	RD37M00000-799.0	M24308/4-443	DD62M10000-50
M24308/4-5	RD50M10000-50	M24308/4-269F	DD104M0000C	M24308/4-361	RD50M00000-799.0	M24308/4-443F	DD62M1000C-50
M24308/4-5F	RD50M1000C-50	M24308/4-302	RD9M1F000-50	M24308/4-362	DD15M00000-799.0	M24308/4-444	DD78M10000-50
M24308/4-6	RD9M10000-50-400.0	M24308/4-302F	RD9M1F00C-50	M24308/4-363	DD26M00000-799.0	M24308/4-444F	DD78M1000C-50
M24308/4-6F	RD9M1000C-50-400.0	M24308/4-3021 M24308/4-303	RD15M1F000-50	M24308/4-364	DD44M00000-799.0	M24308/4-445	DD104M10000-50
M24308/4-7	RD15M10000-50-400.0	M24308/4-303F	RD15M1F00C-50	M24308/4-365	DD62M00000-799.0	M24308/4-445F	DD104M1000C-50
M24308/4-7F	RD15M1000C-50-400.0	M24308/4-303i	RD25M1F000-50	M24308/4-366	DD78M00000-799.0	M24308/4-446	RD9M1F000-50-400.0
M24308/4-8	RD25M10000-50-400.0	M24308/4-304F	RD25M1F00C-50	M24308/4-367	DD104M00000-799.0	M24308/4-446F	RD9M1F00C-50-400.0
M24308/4-8F	RD25M1000C-50-400.0	M24308/4-305	RD37M1F000-50	M24308/4-401	RD9M1F000-50-799.2	M24308/4-447	RD15M1F000-50-400.0
M24308/4-9	RD37M1000C-50-400.0	M24308/4-305F	RD37M1F00C-50	M24308/4-402	RD15M1F000-50-799.2	M24308/4-447F	RD15M1F00C-50-400.0
M24308/4-9F	RD37M1000C-50-400.0	M24308/4-306	RD50M1F000-50	M24308/4-403	RD25M1F000-50-799.2	M24308/4-448	RD25M1F000-50-400.0
	RD50M1000C-50-400.0						RD25M1F00C-50-400.0
M24308/4-10		M24308/4-306F	RD50M1F00C-50	M24308/4-404	RD37M1F000-50-799.2	M24308/4-448F M24308/4-449	
M24308/4-10F	RD50M1000C-50-400.0	M24308/4-313	RD9M1F000-50-400.0 RD9M1F00C-50-400.0	M24308/4-405	RD50M1F000-50-799.2		RD37M1F000-50-400.0
M24308/4-11	DD15M10000-50	M24308/4-313F		M24308/4-406	DD15M1F000-50-799.2	M24308/4-449F	RD37M1F00C-50-400.0 RD50M1F000-50-400.0
M24308/4-11F	DD15M1000C-50	M24308/4-314	RD15M1F000-50-400.0	M24308/4-407	DD26M1F000-50-799.2	M24308/4-450	
M24308/4-12	DD26M10000-50	M24308/4-314F	RD15M1F00C-50-400.0	M24308/4-408	DD44M1F000-50-799.2	M24308/4-450F	RD50M1F00C-50-400.0
M24308/4-12F	DD26M1000C-50	M24308/4-315	RD25M1F000-50-400.0	M24308/4-409	DD62M1F000-50-799.2	M24308/4-451	DD15M1F000-50-400.1
M24308/4-13	DD44M10000-50	M24308/4-315F	RD25M1F00C-50-400.0	M24308/4-410	DD78M1F000-50-799.2	M24308/4-451F	DD15M1F00C-50-400.1
M24308/4-13F	DD44M1000C-50	M24308/4-316	RD37M1F000-50-400.0	M24308/4-411	DD104M1F000-50-799.2	M24308/4-452	DD26M1F000-50-400.1
M24308/4-14	DD62M10000-50	M24308/4-316F	RD37M1F00C-50-400.0	M24308/4-412	RD9M1F000-50-799.3	M24308/4-452F	DD26M1F00C-50-400.1
M24308/4-14F	DD62M1000C-50	M24308/4-317	RD50M1F000-50-400.0	M24308/4-413	RD15M1F000-50-799.3	M24308/4-453	DD44M1F000-50-400.1
M24308/4-15	DD78M10000-50	M24308/4-317F	RD50M1F00C-50-400.0	M24308/4-414	RD25M1F000-50-799.3	M24308/4-453F	DD44M1F00C-50-400.1

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING



*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/4-454	DD62M1F000-50-400.1	M24308/5-27P	HDC50F2F00S-50	M24308/6-16F	DD104F1000C-50-403.0	M24308/6-454F	RD15F1F00C-50-403.0
M24308/4-454F	DD62M1F00C-50-400.1	M24308/5-34	HDC9F20000-50-403.3	M24308/6-16P	DD104F1000S-50	M24308/6-454P	RD15F1F00S-50
M24308/4-455	DD78M1F000-50-400.1	M24308/5-35	HDC15F20000-50-403.3	M24308/6-17	DD15F10000-50-403.2	M24308/6-455	RD25F1F000-50-403.0
M24308/4-455F	DD78M1F00C-50-400.1	M24308/5-36	HDC25F20000-50-403.3	M24308/6-17F	DD15F1000C-50-403.2	M24308/6-455F	RD25F1F00C-50-403.0
M24308/4-456	DD104M1F000-50-400.1	M24308/5-37	HDC37F20000-50-403.3	M24308/6-17P	DD15F1000S-50-400.1	M24308/6-455P	RD25F1F00S-50
M24308/4-456F	DD104M1F00C-50-400.1	M24308/5-38	HDC50F20000-50-403.3	M24308/6-18	DD26F10000-50-403.2	M24308/6-456	RD37F1F000-50-403.0
M24308/4-457	RD9M0F000	M24308/5-56	HDC9F2F000-50-403.4	M24308/6-18F	DD26F1000C-50-403.2	M24308/6-456F	RD37F1F00C-50-403.0
M24308/4-457F	RD9M0F00C	M24308/5-57	HDC15F2F000-50-403.4	M24308/6-18P	DD26F1000S-50-400.1	M24308/6-456P	RD37F1F00S-50
M24308/4-458	RD15M0F000	M24308/5-58	HDC25F2F000-50-403.4	M24308/6-19	DD44F10000-50-403.2	M24308/6-457	RD50F1F000-50-403.0
M24308/4-458F	RD15M0F00C	M24308/5-59	HDC37F2F000-50-403.4	M24308/6-19F	DD44F1000C-50-403.2	M24308/6-457F	RD50F1F00C-50-403.0
M24308/4-459	RD25M0F000	M24308/5-60	HDC50F2F000-50-403.4	M24308/6-19P	DD44F1000S-50-400.1	M24308/6-457P	RD50F1F00S-50
M24308/4-459F	RD25M0F00C	M24308/6-1	RD9F10000-50-403.0	M24308/6-20	DD62F10000-50-403.2	M24308/6-458	DD15F1F000-50-403.0
M24308/4-460	RD37M0F000	M24308/6-1F	RD9F1000C-50-403.0	M24308/6-20F	DD62F1000C-50-403.2	M24308/6-458F	DD15F1F00C-50-403.0
M24308/4-460F	RD37M0F00C	M24308/6-1P	RD9F1000S-50	M24308/6-20P	DD62F1000S-50-400.1	M24308/6-458P	DD15F1F00S-50
M24308/4-461	RD50M0F000	M24308/6-2	RD15F10000-50-403.0	M24308/6-21	DD78F10000-50-403.2	M24308/6-459	DD26F1F000-50-403.0
M24308/4-461F	RD50M0F00C	M24308/6-2F	RD15F1000C-50-403.0	M24308/6-21F	DD78F1000C-50-403.2	M24308/6-459F	DD26F1F00C-50-403.0
M24308/4-462	DD15M0F000	M24308/6-2P	RD15F1000S-50	M24308/6-21P	DD78F1000S-50-400.1	M24308/6-459P	DD26F1F00S-50
M24308/4-462F	DD15M0F00C	M24308/6-3	RD25F10000-50-403.0	M24308/6-22	DD104F10000-50-403.2	M24308/6-460	DD44F1F000-50-403.0
M24308/4-463	DD26M0F000	M24308/6-3F	RD25F1000C-50-403.0	M24308/6-22F	DD104F1000C-50-403.2	M24308/6-460F	DD44F1F00C-50-403.0
M24308/4-463F	DD26M0F00C	M24308/6-3P	RD25F1000S-50	M24308/6-22P	DD104F1000S-50-400.1	M24308/6-460P	DD44F1F00S-50
M24308/4-464	DD44M0F000	M24308/6-4	RD37F10000-50-403.0	M24308/6-281	RD9F00000-403.0	M24308/6-461	DD62F1F000-50-403.0
M24308/4-464F	DD44M0F00C	M24308/6-4F	RD37F1000C-50-403.0	M24308/6-281F	RD9F0000C-403.0	M24308/6-461F	DD62F1F00C-50-403.0
M24308/4-465	DD62M0F000	M24308/6-4P	RD37F1000S-50	M24308/6-281P	RD9F0000S	M24308/6-461P	DD62F1F00S-50
M24308/4-465F	DD62M0F00C	M24308/6-5	RD50F10000-50-403.0	M24308/6-282	RD15F00000-403.0	M24308/6-462	DD78F1F000-50-403.0
M24308/4-466	DD78M0F000	M24308/6-5F	RD50F1000C-50-403.0	M24308/6-282F	RD15F0000C-403.0	M24308/6-462F	DD78F1F00C-50-403.0
M24308/4-466F	DD78M0F00C	M24308/6-5P	RD50F1000S-50	M24308/6-282P	RD15F0000S	M24308/6-462P	DD78F1F00S-50
M24308/4-4667							DD104F1F000-50-403.0
	DD104M0F000	M24308/6-6	RD9F10000-50-403.1	M24308/6-283	RD25F00000-403.0	M24308/6-463	
M24308/4-467F	DD104M0F00C	M24308/6-6F	RD9F1000C-50-403.1	M24308/6-283F	RD25F0000C-403.0	M24308/6-463F	DD104F1F00C-50-403.0
M24308/5-1	HDC9F20000-50-403.0	M24308/6-6P	RD9F1000S-50-400.0	M24308/6-283P	RD25F0000S	M24308/6-463P	DD104F1F00S-50
M24308/5-1F	HDC9F2000C-50-403.0	M24308/6-7	RD15F10000-50-403.1	M24308/6-284	RD37F00000-403.0	M24308/6-464	RD9F1F000-50-403.1
M24308/5-1P	HDC9F2000S-50	M24308/6-7F	RD15F1000C-50-403.1	M24308/6-284F	RD37F0000C-403.0	M24308/6-464F	RD9F1F00C-50-403.1
M24308/5-2	HDC15F20000-50-403.0	M24308/6-7P	RD15F1000S-50-400.0	M24308/6-284P	RD37F0000S	M24308/6-464P	RD9F1F00S-50-400.0
M24308/5-2F	HDC15F2000C-50-403.0	M24308/6-8	RD25F10000-50-403.1	M24308/6-285	RD50F00000-403.0	M24308/6-465	RD15F1F000-50-403.1
M24308/5-2P	HDC15F2000S-50	M24308/6-8F	RD25F1000C-50-403.1	M24308/6-285F	RD50F0000C-403.0	M24308/6-465F	RD15F1F00C-50-403.1
M24308/5-3	HDC25F20000-50-403.0	M24308/6-8P	RD25F1000S-50-400.0	M24308/6-285P	RD50F0000S	M24308/6-465P	RD15F1F00S-50-400.0
M24308/5-3F	HDC25F2000C-50-403.0	M24308/6-9	RD37F10000-50-403.1	M24308/6-286	DD15F00000-403.0	M24308/6-466	RD25F1F000-50-403.1
M24308/5-3P	HDC25F2000S-50	M24308/6-9F	RD37F1000C-50-403.1	M24308/6-286F	DD15F0000C-403.0	M24308/6-466F	RD25F1F00C-50-403.1
M24308/5-4	HDC37F20000-50-403.0	M24308/6-9P	RD37F1000S-50-400.0	M24308/6-286P	DD15F0000S	M24308/6-466P	RD25F1F00S-50-400.0
M24308/5-4F	HDC37F2000C-50-403.0	M24308/6-10	RD50F10000-50-403.1	M24308/6-287	DD26F00000-403.0	M24308/6-467	RD37F1F000-50-403.1
M24308/5-4P	HDC37F2000S-50	M24308/6-10F	RD50F1000C-50-403.1	M24308/6-287F	DD26F0000C-403.0	M24308/6-467F	RD37F1F00C-50-403.1
M24308/5-5	HDC50F20000-50-403.0	M24308/6-10P	RD50F1000S-50-400.0	M24308/6-287P	DD26F0000S	M24308/6-467P	RD37F1F00S-50-400.0
M24308/5-5F	HDC50F2000C-50-403.0	M24308/6-11	DD15F10000-50-403.0	M24308/6-288	DD44F00000-403.0	M24308/6-468	RD50F1F000-50-403.1
M24308/5-5P				M24308/6-288F		M24308/6-468F	
	HDC50F2000S-50	M24308/6-11F	DD15F1000C-50-403.0		DD44F0000C-403.0		RD50F1F00C-50-403.1
M24308/5-23	HDC9F2F000-50-403.0	M24308/6-11P	DD15F1000S-50	M24308/6-288P	DD44F0000S	M24308/6-468P	RD50F1F00S-50-400.0
M24308/5-23F	HDC9F2F00C-50-403.0	M24308/6-12	DD26F10000-50-403.0	M24308/6-289	DD62F00000-403.0	M24308/6-469	DD15F1F000-50-403.2
M24308/5-23P	HDC9F2F00S-50	M24308/6-12F	DD26F1000C-50-403.0	M24308/6-289F	DD62F0000C-403.0	M24308/6-469F	DD15F1F00C-50-403.2
M24308/5-24	HDC15F2F000-50-403.0	M24308/6-12P	DD26F1000S-50	M24308/6-289P	DD62F0000S	M24308/6-469P	DD15F1F00S-50-400.1
M24308/5-24F	HDC15F2F00C-50-403.0	M24308/6-13	DD44F10000-50-403.0	M24308/6-290	DD78F00000-403.0	M24308/6-470	DD26F1F000-50-403.2
M24308/5-24P	HDC15F2F00S-50	M24308/6-13F	DD44F1000C-50-403.0	M24308/6-290F	DD78F0000C-403.0	M24308/6-470F	DD26F1F00C-50-403.2
M24308/5-25	HDC25F2F000-50-403.0	M24308/6-13P	DD44F1000S-50	M24308/6-290P	DD78F0000S	M24308/6-470P	DD26F1F00S-50-400.1
M24308/5-25F	HDC25F2F00C-50-403.0	M24308/6-14	DD62F10000-50-403.0	M24308/6-291	DD104F00000-403.0	M24308/6-471	DD44F1F000-50-403.2
M24308/5-25P	HDC25F2F00S-50	M24308/6-14F	DD62F1000C-50-403.0	M24308/6-291F	DD104F0000C-403.0	M24308/6-471F	DD44F1F00C-50-403.2
M24308/5-26	HDC37F2F000-50-403.0	M24308/6-14P	DD62F1000S-50	M24308/6-291P	DD104F0000S	M24308/6-471P	DD44F1F00S-50-400.1
M24308/5-26F	HDC37F2F00C-50-403.0	M24308/6-15	DD78F10000-50-403.0	M24308/6-453	RD9F1F000-50-403.0	M24308/6-472	DD62F1F000-50-403.2
M24308/5-26P	HDC37F2F00S-50	M24308/6-15F	DD78F1000C-50-403.0	M24308/6-453F	RD9F1F00C-50-403.0	M24308/6-472F	DD62F1F00C-50-403.2
M24308/5-27	HDC50F2F000-50-403.0	M24308/6-15P	DD78F1000S-50	M24308/6-453P	RD9F1F00S-50	M24308/6-472P	DD62F1F00S-50-400.1
M24308/5-27F	HDC50F2F00C-50-403.0	M24308/6-16	DD104F10000-50-403.0	M24308/6-454	RD15F1F000-50-403.0	M24308/6-473	DD78F1F000-50-403.2



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MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING

*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/6-473F	DD78F1F00C-50-403.2	M24308/6-521	DD62F10000-50-403.5	M24308/7-4F	HDC37M2000C-50-403.0	M24308/8-5	RD50M10000-50-403.0
M24308/6-473P	DD78F1F00S-50-400.1	M24308/6-522	DD78F10000-50-403.5	M24308/7-4P	HDC37M2000S-50	M24308/8-5F	RD50M1000C-50-403.0
M24308/6-474	DD104F1F000-50-403.2	M24308/6-523	DD104F10000-50-403.5	M24308/7-5	HDC50M20000-50-403.0	M24308/8-5P	RD50M1000S-50
M24308/6-474F	DD104F1F00C-50-403.2	M24308/6-540	RD9F00000-403.3	M24308/7-5F	HDC50M2000C-50-403.0	M24308/8-6	RD9M10000-50-403.1
M24308/6-474P	DD104F1F00S-50-400.1	M24308/6-541	RD15F00000-403.3	M24308/7-5P	HDC50M2000S-50	M24308/8-6F	RD9M1000C-50-403.1
M24308/6-491	RD9F0F000-403.0	M24308/6-542	RD25F00000-403.3	M24308/7-12	HDC9M2F000-50-403.0	M24308/8-6P	RD9M1000S-50-400.0
M24308/6-491F	RD9F0F00C-403.0	M24308/6-543	RD37F00000-403.3	M24308/7-12F	HDC9M2F00C-50-403.0	M24308/8-7	RD15M10000-50-403.1
M24308/6-491P	RD9F0F00S	M24308/6-544	RD50F00000-403.3	M24308/7-12P	HDC9M2F00S-50	M24308/8-7F	RD15M1000C-50-403.1
M24308/6-492	RD15F0F000-403.0	M24308/6-545	DD15F00000-403.3	M24308/7-13	HDC15M2F000-50-403.0	M24308/8-7P	RD15M1000S-50-400.0
M24308/6-492F	RD15F0F00C-403.0	M24308/6-546	DD26F00000-403.3	M24308/7-13F	HDC15M2F00C-50-403.0	M24308/8-8	RD25M10000-50-403.1
M24308/6-492P	RD15F0F00S	M24308/6-547	DD44F00000-403.3	M24308/7-13P	HDC15M2F00S-50	M24308/8-8F	RD25M1000C-50-403.1
M24308/6-493	RD25F0F000-403.0	M24308/6-548	DD62F00000-403.3	M24308/7-14	HDC25M2F000-50-403.0	M24308/8-8P	RD25M1000S-50-400.0
M24308/6-493F	RD25F0F00C-403.0	M24308/6-549	DD78F00000-403.3	M24308/7-14F	HDC25M2F00C-50-403.0	M24308/8-9	RD37M10000-50-403.1
M24308/6-493P	RD25F0F00S	M24308/6-550	DD104F00000-403.3	M24308/7-14P	HDC25M2F00S-50	M24308/8-9F	RD37M1000C-50-403.1
M24308/6-494	RD37F0F000-403.0	M24308/6-551	RD9F1F000-50-403.4	M24308/7-15	HDC37M2F000-50-403.0	M24308/8-9P	RD37M1000S-50-400.0
M24308/6-494F	RD37F0F00C-403.0	M24308/6-552	RD15F1F000-50-403.4	M24308/7-15F	HDC37M2F00C-50-403.0	M24308/8-10	RD50M10000-50-403.1
M24308/6-494P	RD37F0F00S	M24308/6-553	RD25F1F000-50-403.4	M24308/7-15P	HDC37M2F00S-50	M24308/8-10F	RD50M1000C-50-403.1
M24308/6-495	RD50F0F000-403.0	M24308/6-554	RD37F1F000-50-403.4	M24308/7-16	HDC50M2F000-50-403.0	M24308/8-10P	RD50M1000S-50-400.0
M24308/6-495F	RD50F0F00C-403.0	M24308/6-555	RD50F1F000-50-403.4	M24308/7-16F	HDC50M2F00C-50-403.0	M24308/8-11	DD15M10000-50-403.0
M24308/6-495P	RD50F0F00S	M24308/6-556	DD15F1F000-50-403.4	M24308/7-16P	HDC50M2F00S-50	M24308/8-11F	DD15M1000C-50-403.0
M24308/6-496	DD15F0F000-403.0	M24308/6-557	DD26F1F000-50-403.4	M24308/7-17	HDC9M2F000-50-403.0	M24308/8-11P	DD15M1000S-50
M24308/6-496F	DD15F0F00C-403.0	M24308/6-558	DD44F1F000-50-403.4	M24308/7-17F	HDC9M2F00C-50-403.0	M24308/8-12	DD26M10000-50-403.0
M24308/6-496P	DD15F0F00S	M24308/6-559	DD62F1F000-50-403.4	M24308/7-17P	HDC9M2F00S-50	M24308/8-12F	DD26M1000C-50-403.0
M24308/6-497	DD26F0F000-403.0	M24308/6-560	DD78F1F000-50-403.4	M24308/7-18	HDC15M2F000-50-403.0	M24308/8-12P	DD26M1000S-50
M24308/6-497F	DD26F0F00C-403.0	M24308/6-561	DD104F1F000-50-403.4	M24308/7-18F	HDC15M2F00C-50-403.0	M24308/8-13	DD44M10000-50-403.0
M24308/6-497P	DD26F0F00S	M24308/6-562	RD9F1F000-50-403.6	M24308/7-18P	HDC15M2F00S-50	M24308/8-13F	DD44M1000C-50-403.0
M24308/6-498	DD44F0F000-403.0	M24308/6-563	RD15F1F000-50-403.6	M24308/7-19	HDC25M2F000-50-403.0	M24308/8-13P	DD44M1000S-50
M24308/6-498F	DD44F0F00C-403.0	M24308/6-564	RD25F1F000-50-403.6	M24308/7-19F	HDC25M2F00C-50-403.0	M24308/8-14	DD62M10000-50-403.0
M24308/6-498P	DD44F0F00S	M24308/6-565	RD37F1F000-50-403.6	M24308/7-19P	HDC25M2F00S-50	M24308/8-14F	DD62M1000C-50-403.0
M24308/6-499	DD62F0F000-403.0	M24308/6-566	RD50F1F000-50-403.6	M24308/7-20	HDC37M2F000-50-403.0	M24308/8-14P	DD62M1000S-50
M24308/6-499F	DD62F0F00C-403.0	M24308/6-567	DD15F1F000-50-403.6	M24308/7-20F	HDC37M2F00C-50-403.0	M24308/8-15	DD78M10000-50-403.0
M24308/6-499P	DD62F0F00S	M24308/6-568	DD26F1F000-50-403.6	M24308/7-20P	HDC37M2F00S-50	M24308/8-15F	DD78M1000C-50-403.0
M24308/6-500	DD78F0F000-403.0	M24308/6-569	DD44F1F000-50-403.6	M24308/7-21	HDC50M2F000-50-403.0	M24308/8-15P	DD78M1000S-50
M24308/6-500F	DD78F0F00C-403.0	M24308/6-570	DD62F1F000-50-403.6	M24308/7-21F	HDC50M2F00C-50-403.0	M24308/8-16	DD104M10000-50-403.0
M24308/6-500P	DD78F0F00S	M24308/6-571	DD78F1F000-50-403.6	M24308/7-21P	HDC50M2F00S-50	M24308/8-16F	DD104M1000C-50-403.0
M24308/6-501	DD104F0F000-403.0	M24308/6-572	DD104F1F000-50-403.6	M24308/7-23	HDC9M20000-50-403.3	M24308/8-16P	DD104M1000S-50
M24308/6-501F	DD104F0F00C-403.0	M24308/6-573	RD9F0F000-403.4	M24308/7-24	HDC15M20000-50-403.3	M24308/8-17	DD15M10000-50-403.2
M24308/6-501P	DD104F0F00S	M24308/6-574	RD15F0F000-403.4	M24308/7-25	HDC25M20000-50-403.3	M24308/8-17F	DD15M1000C-50-403.2
M24308/6-502	RD9F10000-50-403.3	M24308/6-575	RD25F0F000-403.4	M24308/7-26	HDC37M20000-50-403.3	M24308/8-17P	DD15M1000S-50-400.1
M24308/6-503	RD15F10000-50-403.3	M24308/6-576	RD37F0F000-403.4	M24308/7-27	HDC50M20000-50-403.3	M24308/8-18	DD26M10000-50-403.2
M24308/6-504	RD25F10000-50-403.3	M24308/6-577	RD50F0F000-403.4	M24308/7-34	HDC9M2F000-50-403.4	M24308/8-18F	DD26M1000C-50-403.2
M24308/6-505	RD37F10000-50-403.3	M24308/6-578	DD15F0F000-403.4	M24308/7-35	HDC15M2F000-50-403.4	M24308/8-18P	DD26M1000S-50-400.1
M24308/6-506	RD50F10000-50-403.3	M24308/6-579	DD26F0F000-403.4	M24308/7-36	HDC25M2F000-50-403.4	M24308/8-19	DD44M10000-50-403.2
M24308/6-507	RD9F10000-50-403.5	M24308/6-580	DD44F0F000-403.4	M24308/7-37	HDC37M2F000-50-403.4	M24308/8-19F	DD44M1000C-50-403.2
M24308/6-508	RD15F10000-50-403.5	M24308/6-581	DD62F0F000-403.4	M24308/7-38	HDC50M2F000-50-403.4	M24308/8-19P	DD44M1000S-50-400.1
M24308/6-509	RD25F10000-50-403.5	M24308/6-582	DD78F0F000-403.4	M24308/8-1	RD9M10000-50-403.0	M24308/8-20	DD62M10000-50-403.2
M24308/6-510	RD37F10000-50-403.5	M24308/6-583	DD104F0F000-403.4	M24308/8-1F	RD9M1000C-50-403.0	M24308/8-20F	DD62M1000C-50-403.2
M24308/6-511	RD50F10000-50-403.5	M24308/7-1	HDC9M20000-50-403.0	M24308/8-1P	RD9M1000S-50	M24308/8-20P	DD62M1000S-50-400.1
M24308/6-512	DD15F10000-50-403.3	M24308/7-1F	HDC9M2000C-50-403.0	M24308/8-2	RD15M10000-50-403.0	M24308/8-21	DD78M10000-50-403.2
M24308/6-513	DD26F10000-50-403.3	M24308/7-1P	HDC9M2000S-50	M24308/8-2F	RD15M1000C-50-403.0	M24308/8-21F	DD78M1000C-50-403.2
M24308/6-514	DD44F10000-50-403.3	M24308/7-2	HDC15M20000-50-403.0	M24308/8-2P	RD15M1000S-50	M24308/8-21P	DD78M1000S-50-400.1
M24308/6-515	DD62F10000-50-403.3	M24308/7-2F	HDC15M2000C-50-403.0	M24308/8-3	RD25M10000-50-403.0	M24308/8-22	DD104M10000-50-403.2
M24308/6-516	DD78F10000-50-403.3	M24308/7-2P	HDC15M2000S-50	M24308/8-3F	RD25M1000C-50-403.0	M24308/8-22F	DD104M1000C-50-403.2
M24308/6-517	DD104F10000-50-403.3	M24308/7-3	HDC25M20000-50-403.0	M24308/8-3P	RD25M1000S-50	M24308/8-22P	DD104M1000S-50-400.1
M24308/6-518	DD15F10000-50-403.5	M24308/7-3F	HDC25M2000C-50-403.0	M24308/8-4	RD37M10000-50-403.0	M24308/8-259	RD9M00000-403.0
M24308/6-519	DD26F10000-50-403.5	M24308/7-3P	HDC25M2000S-50	M24308/8-4F	RD37M1000C-50-403.0	M24308/8-259F	RD9M0000C-403.0
M24308/6-520	DD44F10000-50-403.5	M24308/7-4	HDC37M20000-50-403.0	M24308/8-4P	RD37M1000S-50	M24308/8-259P	RD9M0000S

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING



*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/8-260	RD15M00000-403.0	M24308/8-362	DD15M00000-403.3	M24308/8-441	DD26M1F000-50-403.0	M24308/8-460	RD37M0F000-403.0
M24308/8-260F	RD15M0000C-403.0	M24308/8-363	DD26M00000-403.3	M24308/8-441F	DD26M1F00C-50-403.0	M24308/8-460F	RD37M0F00C-403.0
M24308/8-260P	RD15M0000S	M24308/8-364	DD44M00000-403.3	M24308/8-441P	DD26M1F00S-50	M24308/8-460P	RD37M0F00S
M24308/8-261	RD25M00000-403.0	M24308/8-365	DD62M00000-403.3	M24308/8-442	DD44M1F000-50-403.0	M24308/8-461	RD50M0F000-403.0
M24308/8-261F	RD25M0000C-403.0	M24308/8-366	DD78M00000-403.3	M24308/8-442F	DD44M1F00C-50-403.0	M24308/8-461F	RD50M0F00C-403.0
M24308/8-261P	RD25M0000S	M24308/8-367	DD104M00000-403.3	M24308/8-442P	DD44M1F00S-50	M24308/8-461P	RD50M0F00S
M24308/8-262	RD37M00000-403.0	M24308/8-401	RD9M1F000-50-403.4	M24308/8-443	DD62M1F000-50-403.0	M24308/8-462	DD15M0F000-403.0
M24308/8-262F	RD37M0000C-403.0	M24308/8-402	RD15M1F000-50-403.4	M24308/8-443F	DD62M1F00C-50-403.0	M24308/8-462F	DD15M0F00C-403.0
M24308/8-262P	RD37M0000S	M24308/8-403	RD25M1F000-50-403.4	M24308/8-443P	DD62M1F00S-50	M24308/8-462P	DD15M0F00S
M24308/8-263	RD50M00000-403.0	M24308/8-404	RD37M1F000-50-403.4	M24308/8-444	DD78M1F000-50-403.0	M24608/8-463	DD26M0F000-403.0
M24308/8-263F	RD50M0000C-403.0	M24308/8-405	RD50M1F000-50-403.4	M24308/8-444F	DD78M1F00C-50-403.0	M24308/8-463F	DD26M0F00C-403.0
M24308/8-263P	RD50M0000S	M24308/8-406	DD15M1F000-50-403.4	M24308/8-444P	DD78M1F00S-50	M24308/8-463P	DD26M0F00S
M24308/8-264	DD15M00000-403.0	M24308/8-407	DD26M1F000-50-403.4	M24308/8-445	DD104M1F000-50-403.0	M24308/8-464	DD44M0F000-403.0
M24308/8-264F	DD15M0000C-403.0	M24308/8-408	DD44M1F000-50-403.4	M24308/8-445F	DD104M1F00C-50-403.0	M24308/8-464F	DD44M0F00C-403.0
M24308/8-264P	DD15M0000S	M24308/8-409	DD62M1F000-50-403.4	M24308/8-445P	DD104M1F00S-50	M24308/8-464P	DD44M0F00S
M24308/8-265	DD26M00000-403.0	M24308/8-410	DD78M1F000-50-403.4	M24308/8-446	RD9M1F000-50-403.1	M24308/8-465	DD62M0F000-403.0
M24308/8-265F	DD26M0000C-403.0 DD26M0000S	M24308/8-411	DD104M1F000-50-403.4	M24308/8-446F	RD9M1F00C-50-403.1	M24308/8-465F	DD62M0F00C-403.0
M24308/8-265P		M24308/8-412	RD9M1F000-50-403.6	M24308/8-446P	RD9M1F00S-50-400.0	M24308/8-465P	DD62M0F00S
M24308/8-266	DD44M00000-403.0	M24308/8-413	RD15M1F000-50-403.6	M24308/8-447	RD15M1F000-50-403.1	M24308/8-466	DD78M0F000-403.0
M24308/8-266F	DD44M0000C-403.0	M24308/8-414	RD25M1F000-50-403.6	M24308/8-447F	RD15M1F00C-50-403.1	M24308/8-466F	DD78M0F00C-403.0
M24308/8-266P	DD44M0000S	M24308/8-415	RD37M1F000-50-403.6	M24308/8-447P	RD15M1F00S-50-400.0	M24308/8-466P	DD78M0F00S
M24308/8-267	DD62M00000-403.0	M24308/8-416	RD50M1F000-50-403.6	M24308/8-448	RD25M1F000-50-403.1	M24308/8-467	DD104M0F000-403.0
M24308/8-267F	DD62M0000C-403.0	M24308/8-417	DD15M1F000-50-403.6	M24308/8-448F	RD25M1F00C-50-403.1	M24308/8-467F	DD104M0F00C-403.0
M24308/8-267P	DD62M0000S	M24308/8-418	DD26M1F000-50-403.6	M24308/8-448P	RD25M1F00S-50-400.0	M24308/8-467P	DD104M0F00S
M24308/8-268	DD78M00000-403.0	M24308/8-419	DD44M1F000-50-403.6	M24308/8-449	RD37M1F000-50-403.1	M24308/23-1	HDC9F3P000-50
M24308/8-268F	DD78M0000C-403.0	M24308/8-420	DD62M1F000-50-403.6	M24308/8-449F	RD37M1F00C-50-403.1	M24308/23-1F	HDC9F3P00C-50
M24308/8-268P	DD78M0000S	M24308/8-421	DD78M1F000-50-403.6	M24308/8-449P	RD37M1F00S-50-400.0	M24308/23-1P	HDC9FP00S-50
M24308/8-269	DD104M00000-403.0	M24308/8-422	DD104M1F000-50-403.6	M24308/8-450	RD50M1F000-50-403.1	M24308/23-101	HDC9F3P00-50-403.27
M24308/8-269F	DD104M0000C-403.0	M24308/8-423	RD9M0F000-403.4	M24308/8-450F	RD50M1F00C-50-403.1	M24308/23-201	HDC9F3P000-50-403.0
M24308/8-269P	DD104M0000S	M24308/8-424	RD15M0F000-403.4	M24308/8-450P	RD50M1F00S-50-400.0	M24308/23-201F	HDC9F3P00C-50-403.0
M24308/8-335	RD9M10000-50-403.3	M24308/8-425	RD25M0F000-403.4	M24308/8-451	DD15M1F000-50-403.2	M24308/23-201P	HDC9F3P00S-50
M24308/8-336	RD15M10000-50-403.3	M24308/8-426	RD37M0F000-403.4	M24308/8-451F	DD15M1F00C-50-403.2	M24308/23-301	HDC9F3P00C-50-799.7
M24308/8-337	RD25M10000-50-403.3	M24308/8-427	RD50M0F000-403.4	M24308/8-451P	DD15M1F00S-50-400.1	M24308/23-2	HDC15F3P000-50
M24308/8-338	RD37M10000-50-403.3	M24308/8-428	DD15M0F000-403.4	M24308/8-452	DD26M1F000-50-403.2	M24308/23-2F	HDC15F3P00C-50
M24308/8-339	RD50M10000-50-403.3	M24308/8-429	DD26M0F000-403.4	M24308/8-452F	DD26M1F00C-50-403.2	M24308/23-2P	HDC15F3P00S-50
M24308/8-340	RD9M10000-50-403.5	M24308/8-430	DD44M0F000-403.4	M24308/8-452P	DD26M1F00S-50-400.1	M24308/23-102	HDC15F3P000-50-403.2
M24308/8-341	RD15M10000-50-403.5	M24308/8-431	DD62M0F000-403.4	M24308/8-453	DD44M1F000-50-403.2	M24308/23-202	HDC15F3P000-50-403.0
M24308/8-342	RD25M10000-50-403.5	M24308/8-432	DD78M0F000-403.4	M24308/8-453F	DD44M1F00C-50-403.2	M24308/23-202F	HDC15F3P00C-50-403.0
M24308/8-343	RD37M10000-50-403.5	M24308/8-433	DD104M0F000-403.4	M24308/8-453P	DD44M1F00S-50-400.1	M24308/23-202P	HDC15F3P00S-50
M24308/8-344	RD50M10000-50-403.5	M24308/8-435	RD9M1F000-50-403.0	M24308/8-454	DD62M1F000-50-403.2	M24308/23-302	HDC15F3P000-50-799.7
M24308/8-345	DD15M10000-50-403.3	M24308/8-435F	RD9M1F00C-50-403.0	M24308/8-454F	DD62M1F00C-50-403.2	M24308/23-3	HDC25F3P000-50
M24308/8-346	DD26M10000-50-403.3	M24308/8-435P	RD9M1F00S-50	M24308/8-454P	DD62M1F00S-50-400.1	M24308/23-3F	HDC25F3P00C-50
M24308/8-347	DD44M10000-50-403.3	M24308/8-436	RD15M1F000-50-403.0	M24308/8-455	DD78M1F000-50-403.2	M24308/23-3P	HDC25F3P00S-50
M24308/8-348	DD62M10000-50-403.3	M24308/8-436F	RD15M1F00C-50-403.0	M24308/8-455F	DD78M1F00C-50-403.2	M24308/23-103	HDC25F3P000-50-403.2
M24308/8-349	DD78M10000-50-403.3	M24308/8-436P	RD15M1F00C-50-403.0	M24308/8-455P	DD78M1F00C-50-403.2	M24308/23-103	HDC25F3P000-50-403.2
M24308/8-350	DD104M10000-50-403.3	M24308/8-437	RD25M1F000-50-403.0	M24308/8-456	DD104M1F000-50-403.2	M24308/23-203F	HDC25F3P00C-50-403.0
M24308/8-351	DD15M10000-50-403.5	M24308/8-437F	RD25M1F00C-50-403.0	M24308/8-456F	DD104M1F00C-50-403.2	M24308/23-203P	HDC25F3P00S-50
M24308/8-352	DD26M10000-50-403.5	M24308/8-437P	RD25M1F00S-50	M24308/8-456P	DD104M1F00S-50-400.1	M24308/23-303	HDC25F3P000-50-799.7
M24308/8-353	DD44M10000-50-403.5	M24308/8-438	RD37M1F000-50-403.0	M24308/8-457	RD9M0F000-403.0	M24308/23-4	HDC37F3P000-50
M24308/8-354	DD62M10000-50-403.5	M24308/8-438F	RD37M1F00C-50-403.0	M24308/8-457F	RD9M0F00C-403.0	M24308/23-4F	HDC37F3P00C-50
M24308/8-355	DD78M10000-50-403.5	M24308/8-438P	RD37M1F00S-50	M24308/8-457P	RD9M0F00S	M24308/23-4P	HDC37F3P00S-50
M24308/8-356	DD104M10000-50-403.5	M24308/8-439	RD50M1F000-50-403.0	M24308/8-458	RD15M0F000-403.0	M24308/23-104	HDC37F3P000-50-403.2
M24308/8-357	RD9M00000-403.3	M24308/8-439F	RD50M1F00C-50-403.0	M24308/8-458F	RD15M0F00C-403.0	M24308/23-204	HDC37F3P000-50-403.0
M24308/8-358	RD15M00000-403.3	M24308/8-439P	RD50M1F00S-50	M24308/8-458P	RD15M0F00S	M24308/23-204F	HDC37F3P00C-50-403.0
M24308/8-359	RD25M00000-403.3	M24308/8-440	DD15M1F000-50-403.0	M24308/8-459	RD25M0F000-403.0	M24308/23-204P	HDC37F3P00S-50
M24308/8-360	RD37M00000-403.3	M24308/8-440F	DD15M1F00C-50-403.0	M24308/8-459F	RD25M0F00C-403.0	M24308/23-304	HDC37F3P000-50-799.7
M24308/8-361	RD50M00000-403.3	M24308/8-440P	DD15M1F00S-50	M24308/8-459P	RD25M0F00S	M24308/23-5	HDC50F3P000-50

MIL LISTING



Positronic Industries, Inc. www.connectpositronic.com

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING

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MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/23-5F	HDC50F3P00C-50	M24308/23-14	HDC15F3P000-50-375.2	M24308/23-122	HDC37F3P000-50-403.32	M24308/23-231	HDC9F5B8000-50-403.0
M24308/23-5P	HDC50F3P00S-50	M24308/23-14F	HDC15F3P00C-50-375.2	M24308/23-222	HDC37F3P000-50-403.33	M24308/23-231F	HDC9F5B800C-50-403.0
M24308/23-105	HDC50F3P000-50-403.27	M24308/23-14P	HDC15F3P00S-50-375.2	M24308/23-222F	HDC37F3P00C-50-403.33	M24308/23-231P	HDC9F5B800S-50
M24308/23-205	HDC50F3P000-50-403.0	M24308/23-114	HDC15F3P000-50-403.46	M24308/23-222P	HDC37F3P00S-50-375.9	M24308/23-331	HDC9F5B8000-50-799.12
M24308/23-205F	HDC50F3P00C-50-403.0	M24308/23-214	HDC15F3P000-50-403.47	M24308/23-322	HDC37F3P000-50-799.10	M24308/23-32	HDC15F5B8000-50
M24308/23-205P	HDC50F3P00S-50	M24308/23-214F	HDC15F3P00C-50-403.47	M24308/23-23	HDC50F3P000-50-375.9	M24308/23-32F	HDC15F5B800C-50
M24308/23-305	HDC50F3P000-50-799.7	M24308/23-15	HDC25F3P000-50-375.2	M24308/23-23F	HDC50F3P00C-50-375.9	M24308/23-32P	HDC15F5B800S-50
M24308/23-7	HDC9F3P000-50-375.10	M24308/23-15F	HDC25F3P00C-50-375.2	M24308/23-23P	HDC50F3P00S-50-375.9	M24308/23-132	HDC15F5B8000-50-403.36
M24308/23-7F	HDC9F3P00C-50-375.10	M24308/23-15P	HDC25F3P00S-50-375.2	M24308/23-123	HDC50F3P000-50-403.32	M24308/23-232	HDC15F5B8000-50-403.0
M24308/23-7P	HDC9F3P00S-50-375.10	M24308/23-115	HDC25F3P000-50-403.46	M24308/23-223	HDC50F3P000-50-403.33	M24308/23-232F	HDC15F5B800C-50-403.0
M24308/23-107	HDC9F3P000-50-403.28	M24308/23-215	HDC25F3P000-50-403.47	M24308/23-223F	HDC50F3P00C-50-403.33	M24308/23-232P	HDC15F5B800S-50
M24308/23-207	HDC9F3P000-50-403.29	M24308/23-215F	HDC25F3P00C-50-403.47	M24308/23-223P	HDC50F3P00S-50-375.9	M24308/23-332	HDC15F5B8000-50-799.12
M24308/23-207F	HDC9F3P00C-50-403.29	M24308/23-215P	HDC25F3P00S-50-375.2	M24308/23-323	HDC50F3P000-50-799.10	M24308/23-33	HDC25F5B8000-50
M24308/23-207P	HDC9F3P00S-50-375.10	M24308/23-315	HDC25F3P000-50-799.17	M24308/23-25	HDC9F5B8000-50-376.6	M24308/23-33F	HDC25F5B800C-50
M24308/23-214P	HDC15F3P00S-50-375.2	M24308/23-16	HDC37F3P000-50-375.2	M24308/23-25F	HDC9F5B800C-50-376.6	M24308/23-33P	HDC25F5B800S-50
M24308/23-314	HDC15F3P000-50-799.17	M24308/23-16F	HDC37F3P00C-50-375.2	M24308/23-25P	HDC9F5B800S-50-376.6	M24308/23-133	HDC25F5B8000-50-403.36
M24308/23-307	HDC9F3P000-50-799.8	M24308/23-16P	HDC37F3P00S-50-375.2	M24308/23-125	HDC9F5B8000-50-403.34	M24308/23-233	HDC25F5B8000-50-403.0
M24308/23-8	HDC15F3P000-50-375.10	M24308/23-116	HDC37F3P000-50-403.46	M24308/23-225	HDC9F5B8000-50-403.35	M24308/23-233F	HDC25F5B800C-50-403.0
M24308/23-8F	HDC15F3P00C-50-375.10	M24308/23-216	HDC37F3P000-50-403.4	M24308/23-225F	HDC9F5B800C-50-403.35	M24308/23-233P	HDC25F5B800S-50
M24308/23-8P	HDC15F3P00S-50-375.10	M24308/23-216F	HDC37F3P00C-50-403.47	M24308/23-225P	HDC9F5B800S-50-376.6	M24308/23-333	HDC25F5B8000-50-799.12
M24308/23-108	HDC15F3P000-50-403.28	M24308/23-216P	HDC37F3P00S-50-375.2	M24308/23-325	HDC9F5B8000-50-799.11	M24308/23-34	HDC37F5B8000-50
M24308/23-208	HDC15F3P000-50-403.29	M24308/23-316	HDC37F3P000-50-799.17	M24308/23-26	HDC15F5B8000-50-376.6	M24308/23-34F	HDC37F5B800C-50
M24308/23-208F	HDC15F3P00C-50-403.29	M24308/23-17	HDC50F3P000-50-375.2	M24308/23-26F	HDC15F5B800C-50-376.6	M24308/23-34P	HDC37F5B800S-50
M24308/23-208P	HDC15F3P00S-50-375.10	M24308/23-17F	HDC50F3P00C-50-375.2	M24308/23-26P	HDC15F5B800S-50-376.6	M24308/23-134	HDC37F5B8000-50-403.36
M24308/23-308	HDC15F3P000-50-799.8	M24308/23-17P	HDC50F3P00S-50-375.2	M24308/23-126	HDC15F5B8000-50-403.34	M24308/23-234	HDC37F5B8000-50-403.0
M24308/23-9	HDC25F3P000-50-375.10	M24308/23-117	HDC50F3P000-50-403.46	M24308/23-226	HDC15F5B8000-50-403.35	M24308/23-234F	HDC37F5B800C-50-403.0
M24308/23-9F	HDC25F3P00C-50-375.10	M24308/23-217	HDC50F3P000-50-403.47	M24308/23-226F	HDC15F5B800C-50-403.35	M24308/23-234P	HDC37F5B800S-50
M24308/23-9P	HDC25F3P00S-50-375.10	M24308/23-217F	HDC50F3P00C-50-403.47	M24308/23-226P	HDC15F5B800S-50-376.6	M24308/23-334	HDC37F5B8000-50-799.12
M24308/23-109	HDC25F3P000-50-403.28	M24308/23-217P	HDC50F3P00S-50-375.2	M24308/23-326	HDC15F5B8000-50-799.11	M24308/23-35	HDC50F5B8000-50
M24308/23-209	HDC25F3P000-50-403.29	M24308/23-317	HDC50F3P000-50-799.17	M24308/23-27	HDC25F5B8000-50-376.6	M24308/23-35F	HDC50F5B800C-50
M24308/23-209F	HDC25F3P00C-50-403.29	M24308/23-19	HDC9F3P000-50-375.9	M24308/23-27F	HDC25F5B800C-50-376.6	M24308/23-35P	HDC50F5B800S-50
M24308/23-209P	HDC25F3P00S-50-375.10	M24308/23-19F	HDC9F3P00C-50-375.9	M24308/23-27P	HDC25F5B800S-50-376.6	M24308/23-135	HDC50F5B8000-50-403.36
M24308/23-309	HDC25F3P000-50-799.8	M24308/23-19P	HDC9F3P00S-50-375.9	M24308/23-127	HDC25F5B8000-50-403.34	M24308/23-235	HDC50F5B8000-50-403.0
M24308/23-10	HDC37F3P000-50-375.10	M24308/23-119	HDC9F3P000-50-403.32	M24308/23-227	HDC25F5B8000-50-403.35	M24308/23-235F	HDC50F5B800C-50-403.0
M24308/23-10F	HDC37F3P00C-50-375.10	M24308/23-219	HDC9F3P000-50-403.33	M24308/23-227F	HDC25F5B800C-50-403.35	M24308/23-235P	HDC50F5B800S-50
M24308/23-10P	HDC37F3P00S-50-375.10	M24308/23-219F	HDC9F3P00C-50-403.33	M24308/23-227P	HDC25F5B800S-50-376.6	M24308/23-335	HDC50F5B8000-50-799.12
M24308/23-110	HDC37F3P000-50-403.28	M24308/23-219P	HDC9F3P00S-50-375.9	M24308/23-327	HDC25F5B8000-50-799.11	M24308/23-37	HDC9F5B8000-50-376.5
M24308/23-210	HDC37F3P000-50-403.29	M24308/23-319	HDC9F3P000-50-799.10	M24308/23-28	HDC37F5B8000-50-376.6	M24308/23-37F	HDC9F5B800C-50-376.5
M24308/23-210F	HDC37F3P00C-50-403.29	M24308/23-20	HDC15F3P000-50-375.9	M24308/23-28F	HDC37F5B800C-50-376.6	M24308/23-37P	HDC9F5B800S-50-376.5
M24308/23-210P	HDC37F3P00S-50-375.10	M24308/23-20F	HDC15F3P00C-50-375.9	M24308/23-28P	HDC37F5B800S-50-376.6	M24308/23-137	HDC9F5B8000-50-403.38
M24308/23-310	HDC37F3P000-50-799.8	M24308/23-20P	HDC15F3P00S-50-375.9	M24308/23-128	HDC37F5B8000-50-403.34	M24308/23-237	HDC9F5B8000-50-403.39
M24308/23-11	HDC50F3P000-50-375.10	M24308/23-120	HDC15F3P000-50-403.32	M24308/23-228	HDC37F5B8000-50-403.35	M24308/23-237F	HDC9F5B800C-50-403.39
M24308/23-11F	HDC50F3P00C-50-375.10	M24308/23-220	HDC15F3P000-50-403.33	M24308/23-228F	HDC37F5B800C-50-403.35	M24308/23-237P	HDC9F5B800S-50-376.5
M24308/23-11P	HDC50F3P00S-50-375.10	M24308/23-220F	HDC15F3P00C-50-403.33	M24308/23-228P	HDC37F5B800S-50-376.6	M24308/23-337	HDC9F5B8000-50-799.13
M24308/23-111	HDC50F3P000-50-403.28	M24308/23-220P	HDC15F3P00S-50-375.9	M24308/23-328	HDC37F5B8000-50-799.11	M24308/23-38	HDC15F5B8000-50-376.5
M24308/23-211	HDC50F3P000-50-403.29	M24308/23-320	HDC15F3P000-50-799.10	M24308/23-29	HDC50F5B8000-50-376.6	M24308/23-38F	HDC15F5B800C-50-376.5
M24308/23-211F	HDC50F3P00C-50-403.29	M24308/23-21	HDC25F3P000-50-375.9	M24308/23-29F	HDC50F5B800C-50-376.6	M24308/23-38P	HDC15F5B800S-50-376.5
M24308/23-211P	HDC50F3P00S-50-375.10	M24308/23-21F	HDC25F3P00C-50-375.9	M24308/23-29P	HDC50F5B800S-50-376.6	M24308/23-138	HDC15F5B8000-50-403.38
M24308/23-311	HDC50F3P000-50-799.8	M24308/23-21P	HDC25F3P00S-50-375.9	M24308/23-129	HDC50F5B8000-50-403.34	M24308/23-238	HDC15F5B8000-50-403.39
M24308/23-13	HDC9F3P000-50-375.2	M24308/23-121	HDC25F3P000-50-403.32	M24308/23-229	HDC50F5B8000-50-403.35	M24308/23-238F	HDC15F5B800C-50-403.39
M24308/23-13F	HDC9F3P00C-50-375.2	M24308/23-221	HDC25F3P000-50-403.33	M24308/23-229F	HDC50F5B800C-50-403.35	M24308/23-238P	HDC15F5B800S-50-376.5
M24308/23-13P	HDC9F3P00S-50-375.2	M24308/23-221F	HDC25F3P00C-50-403.33	M24308/23-229P	HDC50F5B800S-50-376.6	M24308/23-338	HDC15F5B8000-50-799.13
M24308/23-113	HDC9F3P000-50-403.46	M24308/23-221P	HDC25F3P00S-50-375.9	M24308/23-328	HDC50F5B8000-50-799.11	M24308/23-39	HDC25F5B8000-50-376.5
M24308/23-213	HDC9F3P000-50-403.47	M24308/23-321	HDC25F3P000-50-799.10	M24308/23-31	HDC9F5B8000-50	M24308/23-39F	HDC25F5B800C-50-376.5
M24308/23-213F	HDC9F3P00C-50-403.47	M24308/23-22	HDC37F3P00C-50-375.9	M24308/23-31F	HDC9F5B800C-50	M24308/23-39P	HDC25F5B800S-50-376.5
M24308/23-213P	HDC9F3P00S-50-375.2	M24308/23-22F	HDC37F3P00C-50-375.9	M24308/23-31P	HDC9F5B800S-50	M24308/23-139	HDC25F5B8000-50-403.38
M24308/23-313	HDC9F3P000-50-799.17	M24308/23-22P	HDC37F3P00S-50-375.9	M24308/23-131	HDC9F5B8000-50-403.36	M24308/23-239	HDC25F5B8000-50-403.39

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING



*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/23-239F	HDC25F5B800C-50-403.39	M24308/23-247P	HDC50F5B800S-50-376.2	M24308/23-356	HDC15F5B8000-50-799.16	M24308/23-65F	DD78F3P00C-50
M24308/23-239P	HDC25F5B800S-50-376.5	M24308/23-347	HDC50F5B8000-50-799.18	M24308/23-57	HDC25F5B8000-50-376.7	M24308/23-65P	DD78F3P00S-50
M24308/23-339	HDC25F5B8000-50-799.13	M24308/23-49	HDC9F5B8000-50-376.8	M24308/23-57F	HDC25F5B800C-50-376.7	M24308/23-165	DD78F3P000-50-403.27
M24308/23-40	HDC37F5B8000-50-376.5	M24308/23-49F	HDC9F5B800C-50-376.8	M24308/23-57P	HDC25F5B800S-50-376.7	M24308/23-265	DD78F3P000-50-403.0
M24308/23-40F	HDC37F5B800C-50-376.5	M24308/23-49P	HDC9F5B800S-50-376.8	M24308/23-157	HDC25F5B8000-50-403.44	M24308/23-265F	DD78F3P00C-50-403.0
M24308/23-40P	HDC37F5B800S-50-376.5	M24308/23-149	HDC9F5B8000-50-403.42	M24308/23-257	HDC25F5B8000-50-403.45	M24308/23-265P	DD78F3P00S-50
M24308/23-140	HDC37F5B8000-50-403.38	M24308/23-249	HDC9F5B8000-50-403.43	M24308/23-257F	HDC25F5B800C-50-403.45	M24308/23-365	DD78F3P000-50-799.7
M24308/23-240	HDC37F5B8000-50-403.39	M24308/23-249F	HDC9F5B800C-50-403.43	M24308/23-257P	HDC25F5B800S-50-376.7	M24308/23-67	DD15F32P000-50
M24308/23-240F	HDC37F5B800C-50-403.39	M24308/23-249P	HDC9F5B800S-50-376.8	M24308/23-357	HDC25F5B8000-50-799.16	M24308/23-67F	DD15F32P00C-50
M24308/23-240P	HDC37F5B800S-50-376.5	M24308/23-349	HDC9F5B8000-50-799.15	M24308/23-58	HDC37F5B8000-50-376.7	M24308/23-67P	DD15F32P00S-50
M24308/23-340	HDC37F5B8000-50-799.13	M24308/23-50	HDC15F5B8000-50-376.8	M24308/23-58F	HDC37F5B800C-50-376.7	M24308/23-167	DD15F32P000-50-403.27
M24308/23-41	HDC50F5B8000-50-376.5	M24308/23-50F	HDC15F5B800C-50-376.8	M24308/23-58P	HDC37F5B800S-50-376.7	M24308/23-267	DD15F32P000-50-403.0
M24308/23-41F	HDC50F5B800C-50-376.5	M24308/23-50P	HDC15F5B800S-50-376.8	M24308/23-158	HDC37F5B8000-50-403.44	M24308/23-267F	DD15F32P00C-50-403.0
M24308/23-41P	HDC50F5B800S-50-376.5	M24308/23-150	HDC15F5B8000-50-403.42	M24308/23-258	HDC37F5B8000-50-403.45	M24308/23-267P	DD15F32P00S-50
M24308/23-141	HDC50F5B8000-50-403.38	M24308/23-250	HDC15F5B8000-50-403.43	M24308/23-258F	HDC37F5B800C-50-403.45	M24308/23-367	DD15F32P000-50-799.7
M24308/23-241	HDC50F5B8000-50-403.39	M24308/23-250F	HDC15F5B800C-50-403.43	M24308/23-258P	HDC37F5B800S-50-376.7	M24308/23-68	DD26F32P000-50
M24308/23-241F	HDC50F5B800C-50-403.39	M24308/23-250P	HDC15F5B800S-50-376.8	M24308/23-358	HDC37F5B8000-50-799.16	M24308/23-68F	DD26F32P00C-50
M24308/23-241P	HDC50F5B800S-50-376.5	M24308/23-350	HDC15F5B8000-50-799.15	M24308/23-59	HDC50F5B8000-50-376.7	M24308/23-68P	DD26F32P00S-50
M24308/23-341	HDC50F5B8000-50-799.13	M24308/23-530	HDC25F5B8000-50-799.15	M24308/23-59F	HDC50F5B800C-50-376.7	M24308/23-168	DD26F32P003-50
	HDC9F5B8000-50-376.2	M24308/23-51F			HDC50F5B800S-50-376.7	M2M24308/23-268	DD26F32P000-50-403.27
M24308/23-43 M24308/23-43F	HDC9F5B800C-50-376.2	M24308/23-51P	HDC25F5B800C-50-376.8 HDC25F5B800S-50-376.8	M24308/23-59P M24308/23-159	HDC50F5B8000-50-403.44	M24308/23-268F	DD26F32P00C-50-403.0
		M24308/23-151		M24308/23-159 M24308/23-259		M24308/23-268P	DD26F32P00C-50-403.0
M24308/23-43P	HDC9F5B800S-50-376.2		HDC25F5B8000-50-403.42		HDC50F5B8000-50-403.45		
M24308/23-143	HDC9F5B8000-50-403.48	M24308/23-251	HDC25F5B8000-50-403.43	M24308/23-259P	HDC50F5B800S-50-376.7	M24308/23-368	DD26F32P000-50-799.7
M24308/23-243	HDC9F5B8000-50-403.49	M24308/23-251F	HDC25F5B800C-50-403.43	M24308/23-359	HDC50F5B8000-50-799.16	M24308/23-69	DD44F32P000-50
M24308/23-243F	HDC9F5B800C-50-403.49	M24308/23-251P	HDC25F5B800S-50-376.8	M24308/23-61	DD15F3P000-50	M24308/23-69F	DD44F32P00C-50
M24308/23-243P	HDC9F5B800S-50-376.2	M24308/23-351	HDC25F5B8000-50-799.15	M24308/23-61F	DD15F3P00C-50	M24308/23-69P	DD44F32P00S-50
M24308/23-343	HDC9F5B8000-50-799.18	M24308/23-52	HDC37F5B8000-50-376.8	M24308/23-61P	DD15F3P00S-50	M24308/23-169	DD44F32P000-50-403.27
M24308/23-44	HDC15F5B8000-50-376.2	M24308/23-52F	HDC37F5B800C-50-376.8	M24308/23-161	DD15F3P000-50-403.27	M24308/23-269	DD44F32P000-50-403.0
M24308/23-44F	HDC15F5B800C-50-376.2	M24308/23-52P	HDC37F5B800S-50-376.8	M24308/23-261	DD15F3P000-50-403.0	M24308/23-269F	DD44F32P00C-50-403.0
M24308/23-44P	HDC15F5B800S-50-376.2	M24308/23-152	HDC37F5B8000-50-403.42	M24308/23-261F	DD15F3P00C-50-403.0	M24308/23-269P	DD44F32P00S-50
M24308/23-144	HDC15F5B8000-50-403.48	M24308/23-252	HDC37F5B8000-50-403.43	M24308/23-261P	DD15F3P00S-50	M24308/23-369	DD44F32P000-50-799.7
M24308/23-244	HDC15F5B8000-50-403.49	M24308/23-252F	HDC37F5B800C-50-403.43	M24308/23-361	DD15F3P000-50-799.7	M24308/23-70	DD62F32P000-50
M24308/23-244F	HDC15F5B800C-50-403.49	M24308/23-252P	HDC37F5B800S-50-376.8	M24308/23-62	DD26F3P000-50	M24308/23-70F	DD62F32P00C-50
M24308/23-244P	HDC15F5B800S-50-376.2	M24308/23-352	HDC37F5B8000-50-799.15	M24308/23-62F	DD26F3P00C-50	M24308/23-70P	DD62F32P00S-50
M24308/23-344	HDC15F5B8000-50-799.18	M24308/23-53	HDC50F5B8000-50-376.8	M24308/23-62P	DD26F3P00S-50	M24308/23-170	DD62F32P000-50-403.27
M24308/23-45	HDC25F5B8000-50-376.2	M24308/23-53F	HDC50F5B800C-50-376.8	M24308/23-162	DD26F3P000-50-403.27	M24308/23-270	DD62F32P000-50-403.0
M24308/23-45F	HDC25F5B800C-50-376.2	M24308/23-53P	HDC50F5B800S-50-376.8	M24308/23-262	DD26F3P000-50-403.0	M24308/23-270F	DD62F32P00C-50-403.0
M24308/23-45P	HDC25F5B800S-50-376.2	M24308/23-153	HDC50F5B8000-50-403.42	MM24308/23-262F	DD26F3P00C-50-403.0	M24308/23-270P	DD62F32P00S-50
M24308/23-145	HDC25F5B8000-50-403.48	M24308/23-253	HDC50F5B8000-50-403.43	M24308/23-262P	DD26F3P00S-50	M24308/23-370	DD62F32P000-50-799.7
M24308/23-245	HDC25F5B8000-50-403.49	M24308/23-253F	HDC50F5B800C-50-403.43	M24308/23-362	DD26F3P000-50-799.7	M24308/23-71	DD78F32P000-50
M24308/23-245F	HDC25F5B800C-50-403.49	M24308/23-253P	HDC50F5B800S-50-376.8	M24308/23-63	DD44F3P000-50	M24308/23-71F	DD78F32P00C-50
M24308/23-245P	HDC25F5B800S-50-376.2	M24308/23-353	HDC50F5B8000-50-799.15	M24308/23-63F	DD44F3P00C-50	M24308/23-71P	DD78F32P00S-50
M24308/23-345	HDC25F5B8000-50-799.18	M24308/23-55	HDC9F5B8000-50-376.7	M24308/23-63P	DD44F3P00S-50	M24308/23-171	DD78F32P000-50-403.27
M24308/23-46	HDC37F5B8000-50-376.2	M24308/23-55F	HDC9F5B800C-50-376.7	M24308/23-163	DD44F3P000-50-403.27	M24308/23-271	DD78F32P000-50-403.0
M24308/23-46F	HDC37F5B800C-50-376.2	M24308/23-55P	HDC9F5B800S-50-376.7	M24308/23-263	DD44F3P000-50-403.0	M24308/23-271F	DD78F32P00C-50-403.0
M24308/23-46P	HDC37F5B800S-50-376.2	M24308/23-155	HDC9F5B8000-50-403.44	M24308/23-263F	DD44F3P00C-50-403.0	M24308/23-271P	DD78F32P00S-50
M24308/23-146	HDC37F5B8000-50-403.48	M24308/23-255	HDC9F5B8000-50-403.45	M24308/23-263P	DD44F3P00S-50	M24308/23-371	DD78F32P000-50-799.7
M24308/23-246	HDC37F5B8000-50-403.49	M24308/23-255F	HDC9F5B800C-50-403.45	M24308/23-363	DD44F3P000-50-799.7	M24308/23-73	DD15F4B8000-50
M24308/23-246F	HDC37F5B800C-50-403.49	M24308/23-255P	HDC9F5B800S-50-376	M24308/23-64	DD62F3P000-50	M24308/23-73F	DD15F4B800C-50
M24308/23-246P	HDC37F5B800S-50-376.2	M24308/23-355	HDC9F5B8000-50-799.16	M24308/23-64F	DD62F3P00C-50	M24308/23-73P	DD15F4B800S-50
M24308/23-346	HDC37F5B8000-50-799.18	M24308/23-56	HDC15F5B8000-50-376.7	M24308/23-64P	DD62F3P00S-50	M24308/23-173	DD15F4B8000-50-403.36
M24308/23-47	HDC50F5B8000-50-376.2	M24308/23-56F	HDC15F5B800C-50-376.7	M24308/23-164	DD62F3P000-50-403.27	M24308/23-273	DD15F4B8000-50-403.0
M24308/23-47F	HDC50F5B800C-50-376.2	M24308/23-56P	HDC15F5B800S-50-376.7	M24308/23-104 M24308/23-264	DD62F3P000-50-403.0	M24308/23-273F	DD15F4B800C-50-403.0
M24308/23-47P	HDC50F5B800S-50-376.2	M24308/23-156	HDC15F5B8000-50-403.44	M24308/23-264F	DD62F3P00C-50-403.0	M24308/23-273P	DD15F4B800S-50
M24308/23-147	HDC50F5B8000-50-403.48	M24308/23-156	HDC15F5B8000-50-403.45	M24308/23-264P	DD62F3P00S-50	M24308/23-373	DD15F4B8000-50-799.12
M24308/23-147 M24308/23-247		M24308/23-256F	HDC15F5B800C-50-403.45		DD62F3P000-50-799.7	M24308/23-74	DD15F4B8000-50-799.12
	HDC50F5B8000-50-403.49			M24308/23-364 M24308/23-65			
M24308/23-247F	HDC50F5B800C-50-403.49	M24308/23-256P	HDC15F5B800S-50-376.7	M24308/23-65	DD78F3P000-50	M24308/23-74F	DD26F4B800C-50



Positronic Industries, Inc. www.connectpositronic.com

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING

*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/23-74P	DD26F4B800S-50	M24308/24-104	HDC37M3P000-50-403.27	M24308/24-213	HDC9M3P000-50-403.31	M24308/24-221F	HDC25M3P00C-50-403.33
M24308/23-174	DD26F4B8000-50-403.36	M24308/24-204	HDC37M3P000-50-403.0	M24308/24-213F	HDC9M3P00C-50-403.31	M24308/24-221P	HDC25M3P00S-50-375.9
M24308/23-274	DD26F4B8000-50-403.0	M24308/24-204F	HDC37M3P00C-50-403.0	M24308/24-213P	HDC9M3P00S-50-375.3	M24308/24-321	HDC25M3P000-50-799.10
M24308/23-274F	DD26F4B800C-50-403.0	M24308/24-204P	HDC37M3P00S-50	M24308/24-313	HDC9M3P000-50-799.9	M24308/24-22	HDC37M3P000-50-375.9
M24308/23-274P	DD26F4B800S-50	M24308/24-304	HDC37M3P000-50-799.7	M24308/24-14	HDC15M3P000-50-375.3	M24308/24-22F	HDC37M3P00C-50-375.9
M24308/23-374	DD26F4B8000-50-799.12	M24308/24-5	HDC50M3P000-50	M24308/24-14F	HDC15M3P00C-50-375.3	M24308/24-22P	HDC37M3P00S-50-375.9
M24308/23-75	DD44F4B8000-50	M24308/24-5F	HDC50M3P00C-50	M24308/24-14P	HDC15M3P00S-50-375.3	M24308/24-122	HDC37M3P000-50-403.32
M24308/23-75F	DD44F4B800C-50	M24308/24-5P	HDC50M3P00S-50	M24308/24-114	HDC15M3P000-50-403.30	M24308/24-222	HDC37M3P000-50-403.33
M24308/23-75P	DD44F4B800S-50	M24308/24-105	HDC50M3P000-50-403.27	M24308/24-214	HDC15M3P000-50-403.31	M24308/24-212F	HDC37M3P00C-50-403.33
M24308/23-175	DD44F4B8000-50-403.36	M24308/24-205	HDC50M3P000-50-403.0	M24308/24-214F	HDC15M3P00C-50-403.31	M24308/24-222P	HDC37M3P00S-50-375.9
M24308/23-275	DD44F4B8000-50-403.0	M24308/24-205F	HDC50M3P00C-50-403.0	M24308/24-214P	HDC15M3P00S-50-375.3	M24308/24-322	HDC37M3P000-50-799.10
M24308/23-275F	DD44F4B800C-50-403.0	M24308/24-205P	HDC50M3P00S-50	M24308/24-314	HDC15M3P000-50-799.9	M24308/24-23	HDC50M3P000-50-375.9
M24308/23-275P	DD44F4B800S-50	M24308/24-305	HDC50M3P000-50-799.7	M24308/24-15	HDC25M3P000-50-375.3	M24308/24-23F	HDC50M3P00C-50-375.9
M24308/23-375	DD44F4B8000-50-799.12	M24308/24-7	HDC9M3P000-50-375.10	M24308/24-15F	HDC25M3P00C-50-375.3	M24308/24-23P	HDC50M3P00S-50-375.9
M24308/23-76	DD62F4B8000-50	M24308/24-7F	HDC9M3P00C-50-375.10	M24308/24-15P	HDC25M3P00S-50-375.3	M24308/24-123	HDC50M3P000-50-403.32
M24308/23-76F	DD62F4B800C-50	M24308/24-7P	HDC9M3P00S-50-375.10	M24308/24-115	HDC25M3P000-50-403.30	M24308/24-223	HDC50M3P000-50-403.33
M24308/23-76P	DD62F4B800S-50	M24308/24-107	HDC9M3P000-50-403.28	M24308/24-215	HDC25M3P000-50-403.31	M24308/24-223F	HDC50M3P00C-50-375.9
M24308/23-176	DD62F4B8000-50-403.36	M24308/24-207	HDC9M3P000-50-403.29	M24308/24-215F	HDC25M3P00C-50-403.31	M24308/24-323	HDC50M3P000-50-799.10
M24308/23-276	DD62F4B8000-50-403.0	M24308/24-207F	HDC9M3P00C-50-403.29	M24308/24-215P	HDC25M3P00S-50-375.3	M24308/24-25	HDC9M5B8000-50-376.6
M24308/23-276F	DD62F4B800C-50-403.0	M24308/24-207P	HDC9M3P00S-50-375.10	M24308/24-315	HDC25M3P000-50-799.9	M24308/24-25F	HDC9M5B800C-50-376.6
M24308/23-276P	DD62F4B800S-50	M24308/24-307	HDC9M3P000-50-799.8	M24308/24-16	HDC37M3P000-50-375.3	M24308/24-25P	HDC9M5B800S-50-376.6
M24308/23-376	DD62F4B8000-50-799.12	M24308/24-8	HDC15M3P000-50-375.10	M24308/24-16F	HDC37M3P00C-50-375.3	M24308/24-125	HDC9M5B8000-50-403.34
M24308/23-77	DD78F4B8000-50	M24308/24-8F	HDC15M3P00C-50-375.10	M24308/24-16P	HDC37M3P00S-50-375.3	M24308/24-225	HDC9M5B8000-50-403.35
M24308/23-77F	DD78F4B800C-50	M24308/24-8P	HDC15M3P00S-50-375.10	M24308/24-116	HDC37M3P000-50-403.30	M24308/24-225F	HDC9M5B800C-50-403.35
M24308/23-77P	DD78F4B800S-50	M24308/24-108	HDC15M3P000-50-403.28	M24308/24-216	HDC37M3P000-50-403.31	M24308/24-225P	HDC9M5B800S-50-376.6
M24308/23-177	DD78F4B8000-50-403.36	M24308/24-208	HDC15M3P000-50-403.29	M24308/24-216F	HDC37M3P00C-50-403.31	M24308/24-325	HDC9M5B8000-50-799.11
M24308/23-277	DD78F4B8000-50-403.0	M24308/24-208F	HDC15M3P00C-50-403.29	M24308/24-216P	HDC37M3P00S-50-375.3	M24308/24-26	HDC15M5B8000-50-376.6
M24308/23-277F	DD78F4B800C-50-403.0	M24308/24-208P	HDC15M3P00S-50-375.10	M24308/24-316	HDC37M3P000-50-799.9	M24308/24-26F	HDC15M5B800C-50-376.6
M24308/23-277P	DD78F4B800S-50	M24308/24-308	HDC15M3P000-50-799.8	M24308/24-17	HDC50M3P000-50-375.3	M24308/24-26P	HDC15M5B800S-50-376.6
M24308/23-377	DD78F4B8000-50-799.12	M24308/24-9	HDC25M3P000-50-375.10	M24308/24-17F	HDC50M3P00C-50-375.3	M24308/24-126	HDC15M5B8000-50-403.34
M24308/24-1	HDC9M3P000-50	M24308/24-9F	HDC25M3P00C-50-375.10	M24308/24-17P	HDC50M3P00S-50-375.3	M24308/24-226	HDC15M5B8000-50-403.35
M24308/24-1F	HDC9M3P00C-50	M24308/24-9P	HDC25M3P00S-50-375.10	M24308/24-117	HDC50M3P000-50-403.30	M24308/24-226F	HDC15M5B800C-50-403.35
M24308/24-1P	HDC9M3P00S-50	M24308/24-109	HDC25M3P000-50-403.28	M24308/24-217	HDC50M3P000-50-403.31	M24308/24-226P	HDC15M5B800S-50-376.6
M24308/24-101	HDC9M3P000-50-403.27	M24308/24-109	HDC25M3P000-50-403.29	M24308/24-217F	HDC50M3P00C-50-403.31	M24308/24-326	HDC15M5B8000-50-799.11
M24308/24-201	HDC9M3P000-50-403.27	M24308/24-209F	HDC25M3P00C-50-403.29	M24308/24-217P	HDC50M3P00S-50-375.3	M24308/24-27	HDC25M5B8000-50-376.6
M24308/24-201F	HDC9M3P00C-50-403.0	M24308/24-209P	HDC25M3P00S-50-375.10	M24308/24-317	HDC50M3P000-50-799.9	M24308/24-27F	HDC25M5B800C-50-376.6
M24308/24-201P	HDC9M3P00S-50	M24308/24-309	HDC25M3P000-50-799.8	M24308/24-19	HDC9M3P000-50-375.9	M24308/24-27P	HDC25M5B800S-50-376.6
			HDC37M3P000-50-375.10	M24308/24-19F	HDC9M3P00C-50-375.9		
M24308/24-301 M24308/24-2	HDC9M3P000-50-799.7 HDC15M3P000-50	M24308/24-10 M24308/24-10F	HDC37M3P00C-50-375.10	M24308/24-19P	HDC9M3P00S-50-375.9	M24308/24-127 M24308/24-227	HDC25M5B8000-50-403.34 HDC25M5B8000-50-403.35
M24308/24-2F	HDC15M3P00C-50	M24308/24-10P	HDC37M3P00C-50-375.10	M24308/24-119	HDC9M3P000-50-403.32	M24308/24-227F	HDC25M5B800C-50-403.35
M24308/24-2P M24308/24-102	HDC15M3P00S-50 HDC15M3P000-50-403.27	M24308/24-110 M24308/24-210	HDC37M3P000-50-403.28 HDC37M3P000-50-403.29	M24308/24-219 M24308/24-219F	HDC9M3P000-50-403.33 HDC9M3P00C-50-403.33	M24308/24-227P M24308/24-327	HDC25M5B800S-50-376.6 HDC25M5B8000-50-799.11
M24308/24-102	HDC15M3P000-50-403.27	M24308/24-210F	HDC37M3P00C-50-403.29	M24308/24-219P	HDC9M3P00S-50-375.9	M24308/24-327	HDC37M5B8000-50-799.11
M24308/24-202F	HDC15M3P00C-50-403.0	M24308/24-210P	HDC37M3P00S-50-375.10	M24308/24-319	HDC9M3P000-50-799.10	M24308/24-28F	HDC37M5B800C-50-376.6
M24308/24-202P	HDC15M3P00S-50	M24308/24-310	HDC37M3P000-50-799.8	M24308/24-20	HDC15M3P000-50-375.9	M24308/24-28P	HDC37M5B800S-50-376.6
M24308/24-302	HDC15M3P000-50-799.7	M24308/24-11	HDC50M3P000-50-375.10	M24308/24-20F	HDC15M3P00C-50-375.9	M24308/24-128	HDC37M5B8000-50-403.34
M24308/24-3	HDC25M3P000-50	M24308/24-11F	HDC50M3P00C-50-375.10	M24308/24-20P	HDC15M3P00S-50-375.9	M24308/24-228	HDC37M5B8000-50-403.35
M24308/24-3F	HDC25M3P00C-50	M24308/24-11P	HDC50M3P00S-50-375.10	M24308/24-120	HDC15M3P000-50-403.32	M24308/24-228F	HDC37M5B800C-50-403.35
M24308/24-3P	HDC25M3P00S-50	M24308/24-111	HDC50M3P000-50-403.28	M24308/24-220	HDC15M3P000-50-403.33	M24308/24-228P	HDC37M5B800S-50-376.6
M24308/24-103	HDC25M3P000-50-403.27	M24308/24-211	HDC50M3P000-50-403.29	M24308/24-220F	HDC15M3P00C-50-403.33	M24308/24-328	HDC37M5B8000-50-799.11
M24308/24-203	HDC25M3P000-50-403.0	M24308/24-211F	HDC50M3P00C-50-403.29	M24308/24-220P	HDC15M3P00S-50-375.9	M24308/24-29	HDC50M5B8000-50-376.6
M24308/24-203F	HDC25M3P00C-50-403.0	M24308/24-211P	HDC50M3P00S-50-375.10	M24308/24-320	HDC15M3P000-50-799.10	M24308/24-29F	HDC50M5B800C-50-376.6
M24308/24-203P	HDC25M3P00S-50	M24308/24-311	HDC50M3P000-50-799.8	M24308/24-21	HDC25M3P000-50-375.9	M24308/24-29P	HDC50M5B800S-50-376.6
M24308/24-303	HDC25M3P000-50-799.7	M24308/24-13	HDC9M3P000-50-375.3	M24308/24-21F	HDC25M3P00C-50-375.9	M24308/24-129	HDC50M5B8000-50-403.34
M24308/24-4	HDC37M3P000-50	M24308/24-13F	HDC9M3P00C-50-375.3	M24308/24-21P	HDC25M3P00S-50-375.9	M24308/24-229	HDC50M5B8000-50-403.35
M24308/24-4F	HDC37M3P00C-50	M24308/24-13P	HDC9M3P00S-50-375.3	M24308/24-121	HDC25M3P000-50-403.32	M24308/24-229F	HDC50M5B800C-50-403.35
M24308/24-4P	HDC37M3P00S-50	M24308/24-113	HDC9M3P000-50-403.30	M24308/24-221	HDC25M3P000-50-403.33	M24308/24-229P	HDC50M5B800S-50-376.6

MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING



*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/24-329	HDC50M5B8000-50-799.11	M24308/24-39	HDC25M5B8000-50-376.5	M24308/24-47F	HDC50M5B800C-50-376.3	M24308/24-56P	HDC15M5B800S-50-376.7
M24308/24-31	HDC9M5B8000-50	M24308/24-39F	HDC25M5B800C-50-376.5	M24308/24-47P	HDC50M5B800S-50-376.3	M24308/24-156	HDC15M5B8000-50-403.44
M24308/24-31F	HDC9M5B800C-50	M24308/24-39P	HDC25M5B800S-50-376.5	M24308/24-147	HDC50M5B8000-50-403.40	M24308/24-256	HDC15M5B8000-50-403.45
M24308/24-31P	HDC9M5B800S-50	M24308/24-139	HDC25M5B8000-50-403.38	M24308/24-247	HDC50M5B8000-50-403.41	M24308/24-256F	HDC15M5B800C-50-403.45
M24308/24-131	HDC9M5B8000-50-403.36	M24308/24-239	HDC25M5B8000-50-403.39	M24308/24-247F	HDC505M5B800C-50-403.41	M24308/24-256P	HDC15M5B800S-50-376.7
M24308/24-231	HDC9M5B8000-50-403.37	M24308/24-239F	HDC25M5B800C-50-403.39	M24308/24-247P	HDC50M5B800S-50-376.3	M24308/24-356	HDC15M5B8000-50-799.16
M24308/24-231F	HDC9M5B800C-50-403.37	M24308/24-239P	HDC25M5B800S-50-376.5	M24308/24-347	HDC50M5B8000-50-799.14	M24308/24-57	HDC25M5B8000-50-376.7
M24308/24-231P	HDC9M5B800S-50	M24308/24-339	HDC25M5B8000-50-799.13	M24308/24-49	HDC9M5B8000-50-376.8	M24308/24-57F	HDC25M5B800C-50-376.7
M24308/24-331	HDC9M5B8000-50-799.12	M24308/24-40	HDC37M5B8000-50-376.5	M24308/24-49F	HDC9M5B800C-50-376.8	M24308/24-57P	HDC25M5B800S-50-376.7
M24308/24-32	HDC15M5B8000-50	M24308/24-40F	HDC37M5B800C-50-376.5	M24308/24-49P	HDC9M5B800S-50-376.8	M24308/24-157	HDC25M5B8000-50-403.44
M24308/24-32F	HDC15M5B800C-50	M24308/24-40P	HDC37M5B800S-50-376.5	M24308/24-149	HDC9M5B8000-50-403.42	M24308/24-257	HDC25M5B8000-50-403.45
M24308/24-32P	HDC15M5B800S-50	M24308/24-140	HDC37M5B8000-50-403.38	M24308/24-249	HDC9M5B800C-50-403.43	M24308/24-257F	HDC25M5B800C-50-403.45
M24308/24-132	HDC15M5B8000-50-403.36	M24308/24-240	HDC37M5B8000-50-403.39	M24308/24-249F	HDC9M5B800C-50-403.43	M24308/24-257P	HDC25M5B800S-50-376.7
M24308/24-232	HDC15M5B8000-50-403.37	M24308/24-240F	HDC37M5B800C-50-403.39	M24308/24-249P	HDC9M5B800S-50-376.8	M24308/24-357	HDC25M5B8000-50-799.16
M24308/24-232F	HDC15M5B800C-50-403.37	M24308/24-240P	HDC37M5B800S-50-376.5	M24308/24-349	HDC9M5B8000-50-799.15	M24308/24-58	HDC37M5B8000-50-376.7
M24308/24-232P	HDC15M5B800S-50	M24308/24-340	HDC37M5B8000-50-799.13	M24308/24-50	HDC15M5B8000-50-376.8	M24308/24-58F	HDC37M5B800C-50-376.7
M24308/24-332	HDC15M5B8000-50-799.12	M24308/24-41	HDC50M5B8000-50-376.5	M24308/24-50F	HDC15M5B800C-50-376.8	M24308/24-58P	HDC37M5B800S-50-376.7
M24308/24-33	HDC25M5B8000-50	M24308/24-41F	HDC50M5B800C-50-376.5	M24308/24-50P	HDC15M5B800S-50-376.8	M24308/24-158	HDC37M5B8000-50-403.44
M24308/24-33F	HDC25M5B800C-50	M24308/24-41P	HDC50M5B800S-50-376.5	M24308/24-150	HDC15M5B8000-50-403.42	M24308/24-158	HDC37M5B8000-50-403.45
							HDC37M5B8000-50-403.45
M24308/24-33P	HDC25M5B800S-50	M24308/24-141	HDC50M5B8000-50-403.38	M24308/24-250	HDC15M5B8000-50-403.43	M24308/24-258F M24308/24-258P	
M24308/24-133	HDC25M5B8000-50-403.36	M24308/24-241	HDC50M5B8000-50-403.39	M24308/24-250F	HDC15M5B800C-50-403.43		HDC37M5B800S-50-376.7
M24308/24-233	HDC25M5B8000-50-403.37	M24308/24-241F	HDC50M5B800C-50-403.39	M24308/24-250P	HDC15M5B800S-50-376.8	M24308/24-358	HDC37M5B8000-50-799.16
M24308/24-233F	HDC25M5B800C-50-403.37	M24308/24-241P	HDC50M5B800S-50-376.5	M24308/24-350	HDC15M5B8000-50-799.15	M24308/24-59	HDC50M5B8000-50-376.7
M24308/24-233P	HDC25M5B800S-50	M24308/24-341	HDC50M5B8000-50-799.13	M24308/24-51	HDC25M5B8000-50-376.8	M24308/24-59F	HDC50M5B800C-50-376.7
M24308/24-333	HDC25M5B8000-50-799.12	M24308/24-43	HDC9M5B8000-50-376.3	M24308/24-51F	HDC25M5B800C-50-376.8	M24308/24-59P	HDC50M5B800S-50-376.7
M24308/24-34	HDC37M5B8000-50	M24308/24-43F	HDC9M5B800C-50-376.5	M24308/24-51P	HDC25M5B800S-50-376.8	M24308/24-159	HDC50M5B8000-50-403.44
M24308/24-34F	HDC37M5B800C-50	M24308/24-43P	HDC9M5B800S-50-376.3	M24308/24-151	HDC25M5B8000-50-403.42	M24308/24-259	HDC50M5B8000-50-403.45
M24308/24-34P	HDC37M5B800S-50	M24308/24-143	HDC9M5B8000-50-403.40	M24308/24-251	HDC25M5B8000-50-403.43	M24308/24-259F	HDC50M5B800C-50-403.45
M24308/24-134	HDC37M5B8000-50-403.36	M24308/24-243	HDC9M5B8000-50-403.41	M24308/24-251F	HDC25M5B800C-50-403.43	M24308/24-259P	HDC50M5B800S-50-376.7
M24308/24-234	HDC37M5B8000-50-403.37	M24308/24-243F	HDC9M5B800C-50-403.41	M24308/24-251P	HDC25M5B800S-50-376.8	M24308/24-359	HDC50M5B8000-50-799.16
M24308/24-234F	HDC37M5B800C-50-403.37	M24308/24-243P	HDC9M5B800S-50-376.3	M24308/24-351	HDC25M5B8000-50-799.15	M24308/24-61	DD15M3P000-50
M24308/24-234P	HDC37M5B800S-50	M24308/24-343	HDC9M5B8000-50-799.14	M24308/24-52	HDC37M5B8000-50-376.8	M24308/24-61F	DD15M3P00C-50
M24308/24-334	HDC37M5B8000-50-799.12	M24308/24-44	HDC15M5B8000-50-376.3	M24308/24-52F	HDC37M5B800C-50-376.8	M24308/24-61P	DD15M3P00S-50
M24308/24-35	HDC50M5B8000-50	M24308/24-44F	HDC15M5B800C-50-376.3	M24308/24-52P	HDC37M5B800S-50-376.8	M24308/24-161	DD15M3P000-50-403.27
M24308/24-35F	HDC50M5B800C-50	M24308/24-44P	HDC15M5B800S-50-376.3	M24308/24-152	HDC37M5B8000-50-403.42	M24308/24-261	DD15M3P000-50-403.0
M24308/24-35P	HDC50M5B800S-50	M24308/24-144	HDC15M5B8000-50-403.40	M24308/24-252	HDC37M5B8000-50-403.43	M24308/24-261F	DD15M3P00C-50-403.0
M24308/24-135	HDC50M5B8000-50-403.36	M24308/24-244	HDC15M5B8000-50-403.41	M24308/24-252F	HDC37M5B800C-50-403.43	M24308/24-261P	DD15M3P00S-50
M24308/24-235	HDC50M5B8000-50-403.37	M24308/24-244F	HDC15M5B800C-50-403.41	M24308/24-252P	HDC37M5B800S-50-376.8	M24308/24-361	DD15M3P000-50-799.7
M24308/24-235F	HDC50M5B800C-50-403.37	M24308/24-244P	HDC15M5B800S-50-376.3	M24308/24-352	HDC37M5B8000-50-799.15	M24308/24-62	DD26M3P000-50
M24308/24-235P	HDC50M5B800S-50	M24308/24-344	HDC15M5B8000-50-799.14	M24308/24-53	HDC50M5B8000-50-376.8	M24308/24-62F	DD26M3P00C-50
M24308/24-335	HDC50M5B8000-50-799.12	M24308/24-45	HDC25M5B8000-50-376.3	M24308/24-53F	HDC50M5B800C-50-376.8	M24308/24-62P	DD26M3P00S-50
M24308/24-37	HDC9M5B8000-50-376.5	M24308/24-45F	HDC25M5B800C-50-376.3	M24308/24-53P	HDC50M5B800S-50-376.8	M24308/24-162	DD26M3P000-50-403.27
M24308/24-37F	HDC9M5B800C-50-376.5	M24308/24-45P	HDC25M5B800S-50-376.3	M24308/24-153	HDC50M5B8000-50-403.42	M24308/24-262	DD26M3P000-50-403.0
M24308/24-37P	HDC9M5B800S-50-376.5	M24308/24-145	HDC25M5B8000-50-403.40	M24308/24-253	HDC50M5B8000-50-403.43	M24308/24-262F	DD26M3P00C-50-403.0
M24308/24-137	HDC9M5B8000-50-403.38	M24308/24-245	HDC25M5B8000-50-403.41	M24308/24-253F	HDC50M5B800C-50-403.43	M24308/24-262P	DD26M3P00S-50
M24308/24-237	HDC9M5B8000-50-403.39	M24308/24-245F	HDC25M5B800C-50-403.41	M24308/24-253P	HDC50M5B800S-50-376.8	M24308/24-362	DD26M3P000-50-799.7
M24308/24-237F	HDC9M5B800C-50-403.39	M24308/24-245P	HDC25M5B800S-50-376.3	M24308/24-353	HDC50M5B8000-50-799.15	M24308/24-63	DD44M3P000-50-403.0
M24308/24-237P	HDC9M5B800S-50-376.5	M24308/24-345	HDC25M5B8000-50-799.14	M24308/24-55	HDC9M5B8000-50-376.7	M24308/24-63F	DD44M3P00C-50
M24308/24-337	HDC9M5B8000-50-799.13	M24308/24-46	HDC37M5B8000-50-376.3	M24308/24-55F	HDC9M5B800C-50-376.7	M24308/24-63P	DD44M3P00S-50
M24308/24-38	HDC15M5B8000-50-376.5	M24308/24-46F	HDC37M5B800C-50-376.3	M24308/24-55P	HDC9M5B800S-50-376.7	M24308/24-163	DD44M3P000-50-403.27
M24308/24-38F	HDC15M5B800C-50-376.5	M24308/24-46P	HDC37M5B800S-50-376.3	M24308/24-155	HDC9M5B8000-50-403.44	M24308/24-263	DD44M3P000-50-403.0
M24308/24-38P	HDC15M5B800S-50-376.5	M24308/24-146	HDC37M5B8000-50-403.40	M24308/24-255	HDC9M5B8000-50-403.45	M24308/24-263F	DD44M3P00C-50-403.0
M24308/24-138	HDC15M5B8000-50-403.38	M24308/24-246	HDC37M5B8000-50-403.41	M24308/24-255F	HDC9M5B800C-50-403.45	M24308/24-263P	DD44M3P00S-50
M24308/24-238	HDC15M5B8000-50-403.39	M24308/24-246F	HDC37M5B800C-50-403.41	M24308/24-255P	HDC9M5B800S-50-376.7	M24308/24-363	DD44M3P000-50-799.7
M24308/24-238F	HDC15M5B800C-50-403.39	M24308/24-249P	HDC37M5B800S-50-376.3	M24308/24-355	HDC9M5B8000-50-799.16	M24308/24-64	DD62M3P000-50
M24308/24-238P	HDC15M5B800S-50-376.5	M24308/24-346	HDC37M5B8000-50-799.14	M24308/24-56	HDC15M5B8000-50-376.7	M24308/24-64F	DD62M3P00C-50
M24308/24-338	HDC15M5B8000-50-799.13	M24308/24-47	HDC50M5B8000-50-376.3	M24308/24-56F	HDC15M5B800C-50-376.7	M24308/24-64P	DD62M3P00S-50
	5.0020000 00 700.10		500020000 00 01 0.0	1	5.0020000 00 010.1	1	52

MIL LISTINGS



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MIL-DTL-24308 / MIL-C-39029 / MIL-C-85049 QUALIFIED PRODUCTS LISTING

*NOTE: Parts are to be ordered to the military number, the Positronic part number is for reference only.

Positronic HDC Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-618-79/24308-1210-85.

Positronic RD Series hoods are Q.P.L. approved to MIL-C-85049 per test report number 85049-870-84.

Positronic DD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-1209-85/24308-1210-85/24308-117-89.

Positronic RD Series connectors are Q.P.L. approved to MIL-DTL-24308 per test report number 24308-211-79/24308-1210-85.

MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*	MILITARY PART NUMBER	REFERENCE NUMBER*
M24308/24-164	DD62M3P000-50-403.27	M24308/24-273	DD15M4B8000-50-403.0				
M24308/24-264	DD62M3P000-50-403.0	M24308/24-273F	DD15M4B800C-50-403.0				
M24308/24-264F	DD62M3P00C-50-403.0	M24308/24-273P	DD15M4B800S-50				
M24308/24-264P	DD62M3P00S-50	M24308/24-373	DD15M4B8000-50-799.12				
M24308/24-364	DD62M3P000-50-799.7	M24308/24-74	DD26M4B8000-50				
M24308/24-65	DD78M3P000-50	M24308/24-74F	DD26M4B800C-50				
M24308/24-65F	DD78M3P00C-50	M24308/24-74P	DD26M4B800S-50				
M24308/24-65P	DD78M3P00S-50	M24308/24-174	DD26M4B8000-50-403.36				
M24308/24-165	DD78M3P000-50-403.27	M24308/24-274	DD26M4B8000-50-403.0				
M24308/24-265	DD78M3P000-50-403.0	M24308/24-274F	DD26M4B800C-50-403.0				
M24308/24-265F	DD78M3P00C-50-403.0	M24308/24-274P	DD26M4B800S-50				
M24308/24-265P	DD78M3P00S-50	M24308/24-374	DD26M4B8000-50-799.12				
M24308/24-365	DD78M3P000-50-799.7	M24308/24-75	DD44M4B8000-50				
M24308/24-67	DD15M32P000-50	M24308/24-75F	DD44M4B800C-50				
M24308/24-67F	DD15M32P00C-50	M24308/24-75P	DD44M4B800S-50				
M24308/24-67P	DD15M32P00S-50	M24308/24-175	DD44M4B8000-50-403.36				
M24308/24-167	DD15M32P000-50-403.27	M24308/24-275	DD44M4B8000-50-403.0				
M24308/24-267	DD15M32P000-50-403.0	M24308/24-275F	DD44M4B800C-50-403.0				
M24308/24-267F	DD15M32P00C-50-403.0	M24308/24-275P	DD44M4B800S-50				
M24308/24-267P	DD15M32P00S-50	M24308/24-375	DD44M4B8000-50-799.12				
M24308/24-367	DD15M32P000-50-799.7	M24308/24-76	DD62M4B8000-50				
M24308/24-68	DD26M32P000-50	M24308/24-76F	DD62M4B800C-50				
M24308/24-68F	DD26M32P00C-50	M24308/24-76P	DD62M4B800S-50				
M24308/24-68P	DD26M32P00S-50	M24308/24-176	DD62M4B8000-50-403.36				
M24308/24-168	DD26M32P000-50-403.27	M24308/24-276	DD62M4B8000-50-403.0				
M24308/24-268	DD26M32P000-50-403.0	M24308/24-276F	DD62M4B800C-50-403.0				
M24308/24-268F	DD26M32P00C-50-403.0	M24308/24-276P	DD62M4B800S-50				
M24308/24-268P	DD26M32P00S-50	M24308/24-376	DD62M4B8000-50-799.12				
M24308/24-368	DD26M32P000-50-799.7	M24308/24-77	DD78M4B8000-50				
M24308/24-69	DD44M32P000-50	M24308/24-77F	DD78M4B800C-50				
M24308/24-69F	DD44M32P00C-50	M24308/24-77P	DD78M4B800S-50				
M24308/24-69P	DD44M32P00S-50	M24308/24-177	DD78M4B8000-50-403.36				
M24308/24-169	DD44M32P000-50-403.27	M24308/24-177	DD78M4B8000-50-403.0				
M24308/24-269	DD44M32P000-50-403.0	M24308/24-277F	DD78M4B800C-50-403.0				
M24308/24-269F	DD44M32P00C-50-403.0	M24308/24-277P	DD78M4B800S-50				
M24308/24-269P	DD44M32P00S-50	M24308/24-377	DD78M4B8000-50-799.12				
M24308/24-369	DD44M32P000-50-799.7	M24308/25-6	D00000E20				
M24308/24-70	DD62M32P000-50	M24308/25-6F	D00000E20-462.31				
M24308/24-70F	DD62M32P00C-50	M24308/25-6P	D00000E20-462.23				
M24308/24-70P	DD62M32P00S-50	M24308/26-1	D00000T20-462.32				
M24308/24-170	DD62M32P000-50-403.27	M24308/26-1F	D00000T20-462.33				
M24308/24-270	DD62M32P000-50-403.0	M24308/26-1P	D00000T20-462.7				
M24308/24-270F	DD62M32P00C-50-403.0	M24308/26-2	D00000T30-462.32				
M24308/24-270P	DD62M32P00S-50	M24308/26-2F	D00000T30-462.33				
M24308/24-370	DD62M32P000-50-799.7	M24308/26-2P	D00000T30-462.7				
M24308/24-71	DD78M32P000-50	CRIMP CONTACTS					
M24308/24-71F	DD78M32P00C-50	M39029/57-354	FC8022D-50				
M24308/24-71P	DD78M32P00S-50	M39029/58-360	MC8022D-50				
M24308/24-171	DD78M32P000-50-403.27	M39029/63-368	FC6020D-50				
M24308/24-271	DD78M32P000-50-403.0	M39029/64-369	MC6020D-50				
M24308/24-271F	DD78M32P00C-50-403.0	METAL HOODS					
M24308/24-271P	DD78M32P00S-50	M85049/48-1-3F	RD25000H00				
	DD78M32P000-50-799.7	M85049/48-1-4F	RD37000H00				
M24308/24-371							
M24308/24-73	DD15M4B8000-50	M85049/48-1-5F	RD50000H00				
M24308/24-73F	DD15M4B800C-50						
M24308/24-73P	DD15M4B800S-50						
M24308/24-173	DD15M4B8000-50-403.36	I				I	

Positronic Products

Contact Sizes: 0, 8, 12, 16, 20 and 22

Current Ratings: To 150 amperes Terminations: Crimp, wire solder, straight solder, right angle solder, straight press-fit and right angle press-fit

Configurations: Multiple variants in a variety of package sizes
Compliance: PICMG 2.11,
PICMG 3.0, VITA 41



FEATURES: 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

Contact Sizes: 16, 20 and 22 Current Ratings: To 13 amperes Terminations: Crimp, wire solder, straight solder and right angle solder Configurations: Multiple variants in both standard and high densities Qualifications: MIL-DTL-28748, MIL-C-39029, CCITT V.35



FEATURES: Two performance levels available: industrial quality and military quality provide two performance to cost choices • Large Surface Area Contact Mating System • A wide variety of accessories • Broad selection of contact variants and package sizes

All Positronic connector products can be supplied as part of cable assemblies whose technical characteristics would reflect those of the connectors being used within the assembly.



FEATURES: Shorten the supply chain and reduce additional costs and delays by "cablizing" ● Overmolding available ● Shielded and environmentally sealed versions available ● Power cables and access boxes which meet the SAE J2496 specification

Contact Sizes: 8, 20 and 22 Current Ratings: To 40 amperes nominal

Terminations: Crimp, wire solder, straight solder, right angle solder and straight press-fit Configurations: Multiple variants in both standard and high densities Qualifications: MIL-DTL-24308, Goddard Space Flight 311P, MIL-C-39029, IP65, IP67



FEATURES: Three performance levels available: professional quality, military quality and space-flight quality provide multiple performance to cost choices • Options include thermocouple contacts, filtered, environmentally sealed and dual port package including mixed density • Broad selection of accessories

Contact Sizes: 12, 16, 20 and 22 Current Ratings: To 25 amperes nominal Terminations: Crimp, wire solder, straight solder and right angle solder

Configurations: Multiple variants in two package sizes

Qualifications: Environmental

Qualifications: Environmental protection to IP67



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: 8, 12, 16, 20 and 22

Current Ratings: To 40 amperes

Terminations: Feed through is standard; flying leads and board mount available upon request Configurations: See

Configurations: See
D-Subminiature and
Circular Configurations above
Qualifications: Space-D32



FEATURES: Intended for use as an electrical feedthrough in high vacuum applications • Leakage rate: 1 x 10-9 mbar.l/s • Signal, power, coax and high voltage versions available • Connectors can be mounted on flange assembly per customer specification

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

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POSITRONIC INDUSTRIES, INC

423 N Campbell Ave • PO Box 8247 • Springfield, MO 65801
Tel (417) 866-2322 • Fax (417) 866-4115 • Toll Free (800) 641-4054
info@connectpositronic.com

POSITRONIC INDUSTRIES, S.A.S.

Zone Industrielle d'Engachies • 46 Route d'Engachies France 32020 Auch Cedex 9 Telephone 33 (0)5 62 63 44 91 • Fax 33 (0)5 62 63 51 17 contact@connectpositronic.com

POSITRONIC ASIA PTE LTD.

3014A Ubi Road 1 #07-01 • Singapore 408703 Telephone (656) 842 1419 • Fax (656) 842 1421 singapore@connectpositronic.com