PDF CATALOG OF
INDUSTRIAL AND MILITARY APPLICATION SUBMINIATURE-D CONNECTORS

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

5,255,580
5,329,697

Other Patents Pending

Maximum Torque Values for 4-40 UNC Threads

MATERIAL	TORQUE Nm	TORQUE in-lb	TORQUE in-oz
Phos. Bronze	0.90	8.0	128
Brass	0.68	6.0	96
Aluminum	0.45	4.0	64
Nylon	0.11	1.0	16

These torque values are applicable for threads only and do not apply to hardware assemblies. These torque values are approximate and should not be accepted as accurate limits. Indeterminant factors in specific applications preclude the publication of accurate torque values for universal use.

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.**

CATALOG NUMBER:
C–001 REV .A

PRINTED DATE:
APRIL 2001
PUBLISHED IN THE UNITED STATES OF AMERICA

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SOLI-D CONNECTORS. 11-19

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 20-28

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 29-37

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.

LOW COST STANDARD DENSITY CONNECTORS . . . 38-41

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

RHAPSO-D CONNECTORS 42-46

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.

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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.

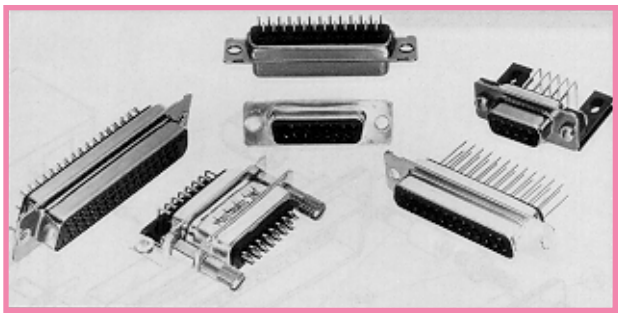
PRESS-FIT CONNECTORS 53-57

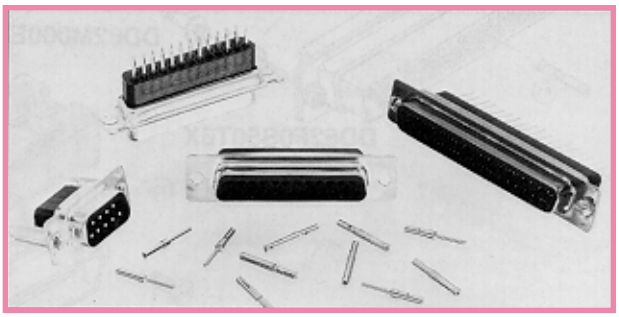
PCD Series. Machined contact, compliant termination, repairable, 7.5 ampere nominal rating. Five connector variants, 9 through 50 contacts. Professional quality connectors, conform to IEC 807-2, Performance Level Two.

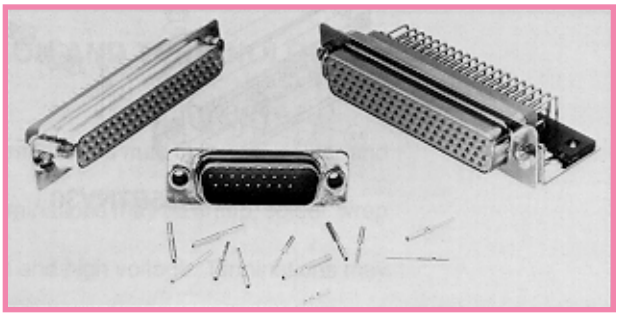
HIGH DENSITY PRESS-FIT CONNECTORS. 58-62

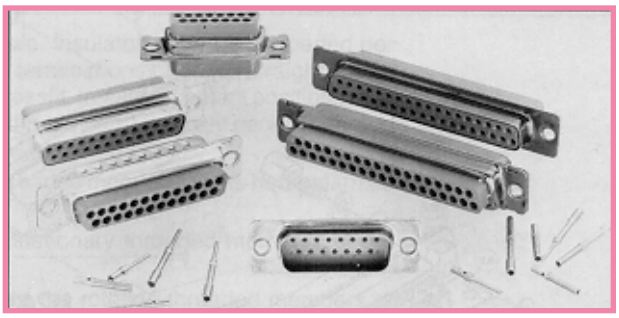
PCDD Series. Machined contact, compliant termination, repairable, 5 ampere nominal rating. Five connector variants, 15 through 104 contacts. Professional quality connectors.

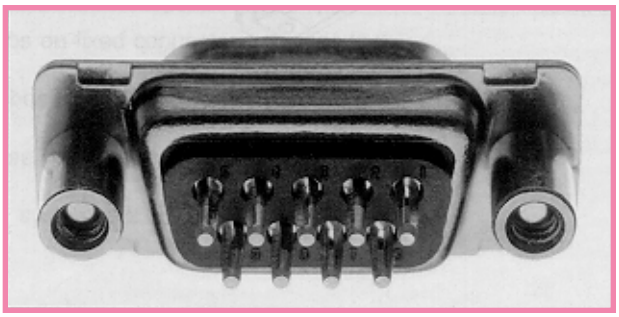
MIL-DTL-24308, MIL-C-39029 and MIL-C-85049 QUALIFIED PRODUCTS LISTING 63-67











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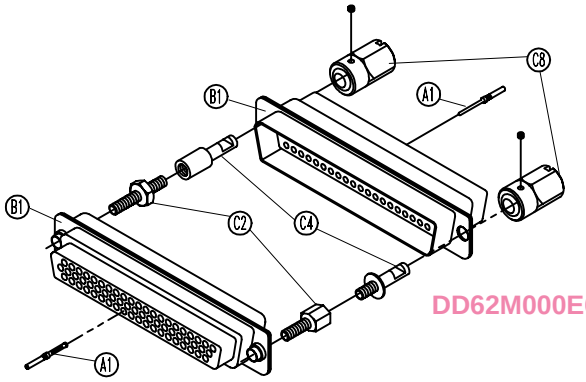
EXPLODED VIEWS OF TYPICAL MATED SUBMINIATURE-D CONNECTOR ASSEMBLIES



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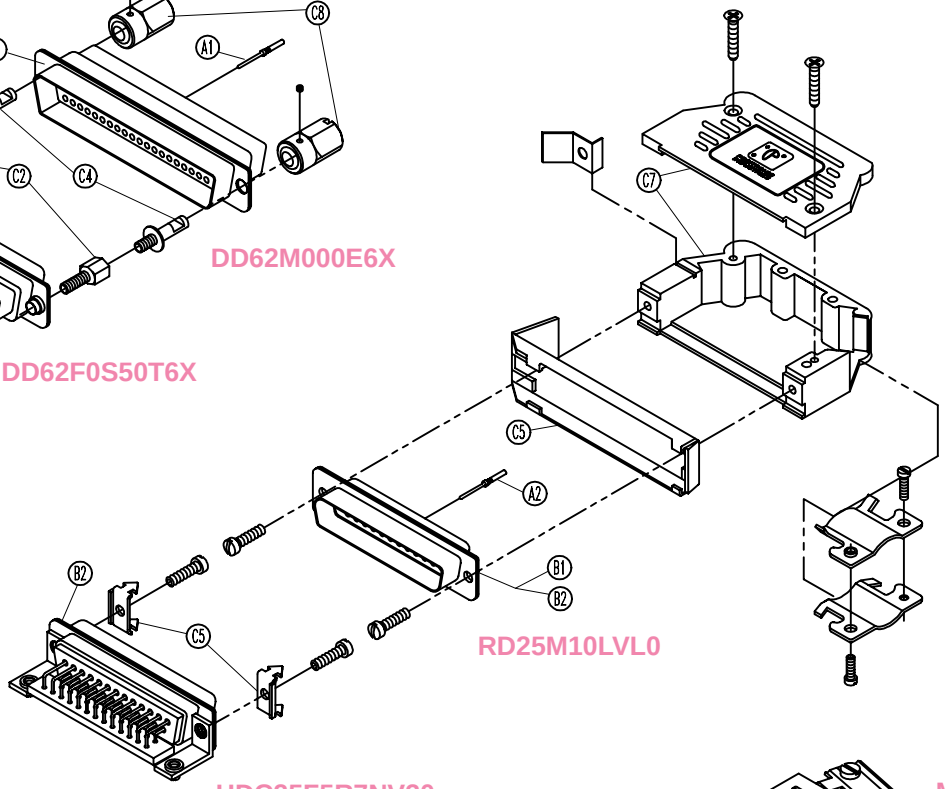
DD62F0S50T6X



RD25M10LVL0

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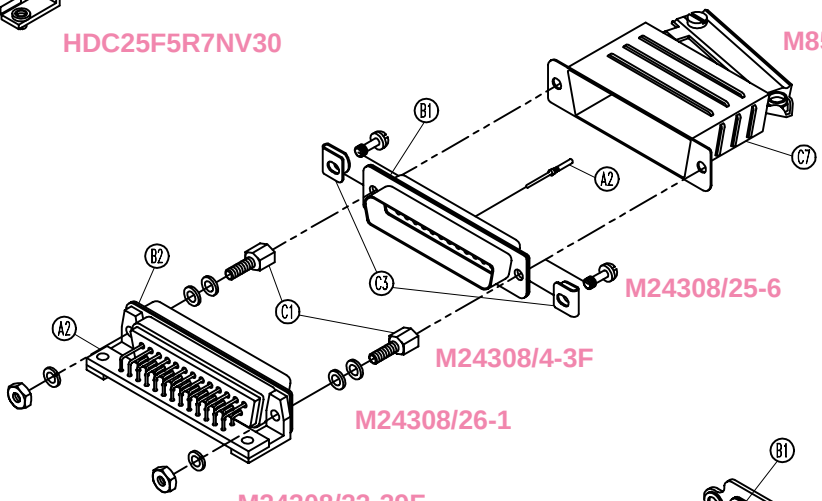
M85049/48-1-3

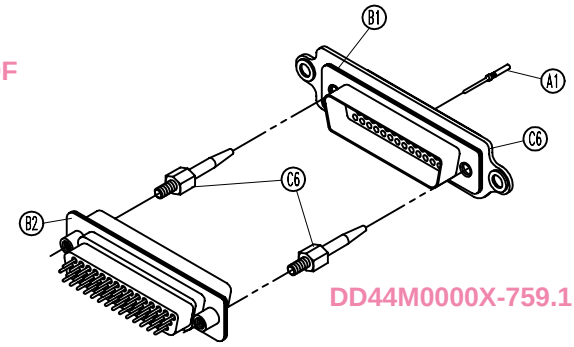


M24308/25-6

M24308/4-3F

M24308/26-1

M24308/23-39F



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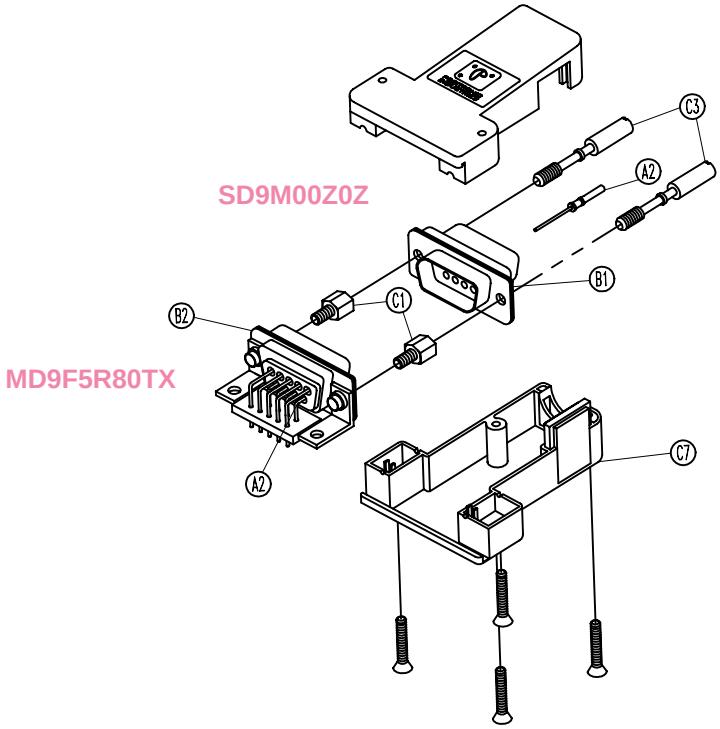
EXPLODED VIEWS OF TYPICAL MATED SUBMINIATURE-D CONNECTOR ASSEMBLIES



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.

B-1 – 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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Melo-D/Euro-D Series

PROFESSIONAL QUALITY, FIXED CONTACT, SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Fixed

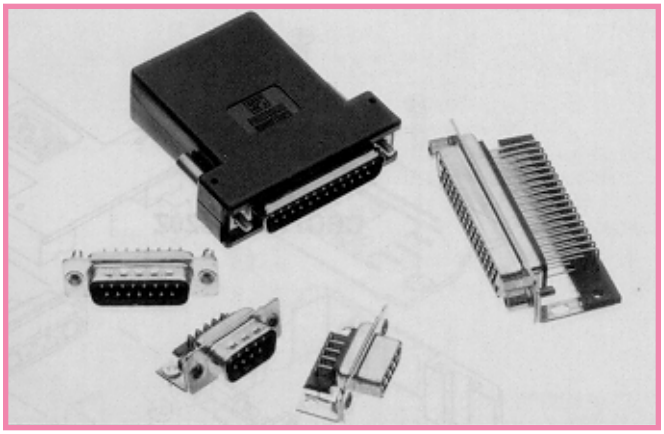
Professional Quality Connectors

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 are professional quality connectors recommended for use in sheltered, non-corrosive indoor or outdoor environments having normal ventilation, but without temperature or humidity controls. These fixed contact connectors meet the dimensional and performance requirements of IEC 807-2, Performance Level Two.

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 available 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 alloy. Female contacts – precision machined high tensile phosphor bronze.
Contact Plating:	Professional performance Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc plate with dichromate seal.
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 plate.
Hoods:	Thermoplastic UL 94V-0. Composite, 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.
Insulator Resistance:	5 G ohms.
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 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:	500°F (260°C) for 10 seconds duration per IEC 512-6.
Melo-D Contact Terminations:	Solder cup contacts – 0.042 inch (1.06mm) minimum hole diameter for 20 AWG (0.5mm^2) 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.
Euro-D Contact Terminations:	Solder cup contacts – 0.042 inch (1.06mm) minimum hole diameter for 20 AWG (0.5mm^2) 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 threaded posts.
Locking Systems:	Jackscrews and vibration locking systems.
Mechanical Operations:	500 operations minimum per IEC 512-5.

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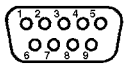
CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE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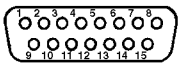
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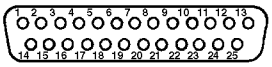
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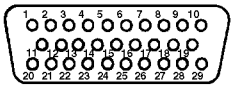
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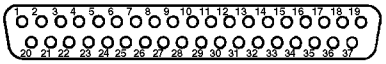
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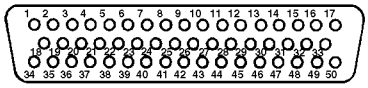
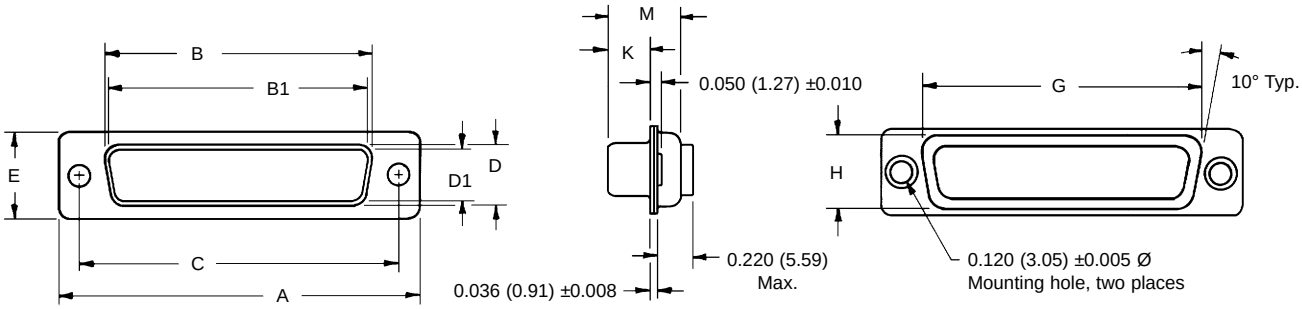
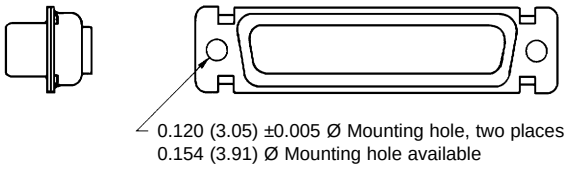
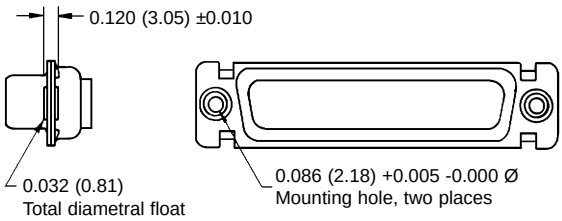

SIZE 50

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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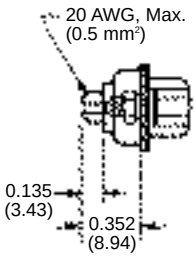
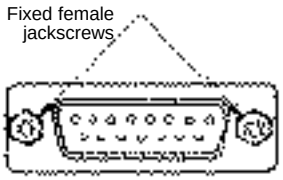
MD/ED Series

PROFESSIONAL QUALITY, FIXED CONTACT, SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

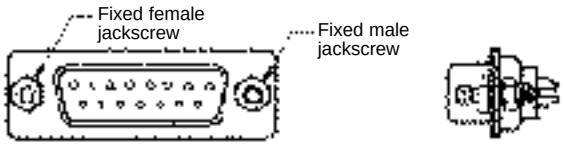
SOLDER CUP CONNECTOR





For solder cup contacts, specify code 2 in step 4 of ordering information.

Typical Part Number: ED15M200T2Z



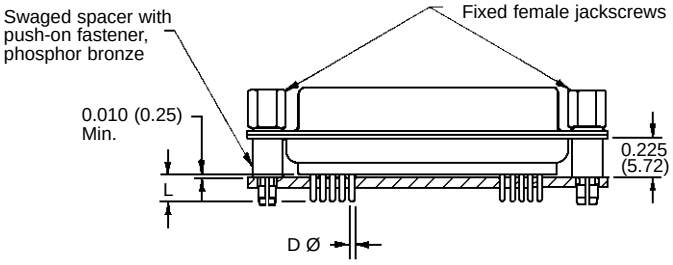
Fixed male and female polarized jackscrews available. Specify code T6 in step 7 of ordering information.

Typical Part Number: MD15M200T6Z

STRAIGHT PRINTED BOARD MOUNT CONNECTOR

CODE NUMBER	L	D Ø
3	0.150 (3.81)	0.028 (0.71)
32	0.375 (9.53)	0.028 (0.71)
36	0.236 (5.99)	0.024 (0.61)

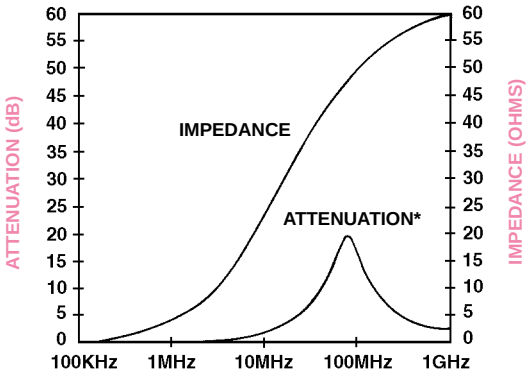
For straight printed board mount contacts, specify code number in step 4 of ordering information.



Typical Part Number: MD25F3S60T0

FERRITE INDUCTOR BAR FOR EMI/RFI NOISE SUPPRESSION

FILTERING CHARACTERISTICS

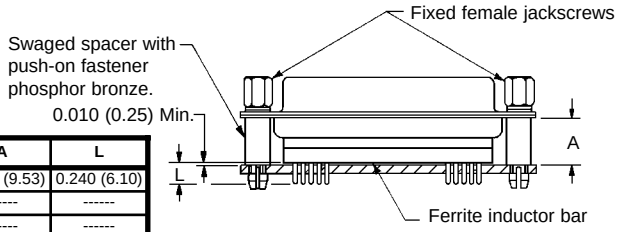


*NO-LOAD CONDITION

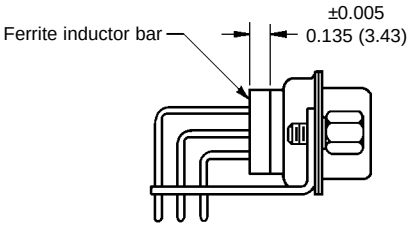
SERIES	CODE NO.	A	L
MD	32	0.375 (9.53)	0.240 (6.10)
MD	4	------	------
MD	59	------	------
MD	6	0.375 (9.53)	0.360 (9.14)
ED	36	0.375 (9.53)	0.101 (2.57)
ED	6	0.375 (9.53)	0.360 (9.14)
DD	32	0.515 (13.08)	0.165 (4.19)
ODD	32	0.375 (9.53)	0.165 (4.19)
ODD	5	------	------
HDC	32	0.375 (9.53)	0.240 (6.10)
HDC	36	0.375 (9.53)	0.101 (2.57)
HDC	6	0.375 (9.53)	0.360 (9.14)

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.

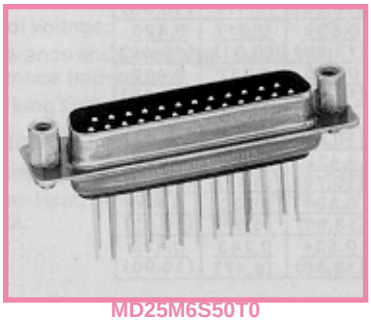


STRAIGHT PRINTED BOARD MOUNT CONNECTOR



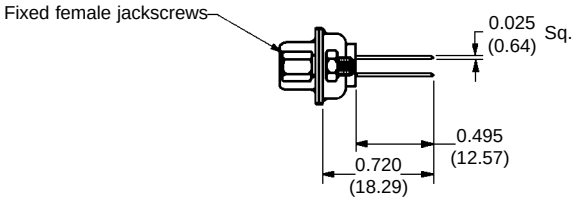
90° PRINTED BOARD MOUNT CONNECTOR

WRAP POST CONNECTOR



MD25M6S50T0

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



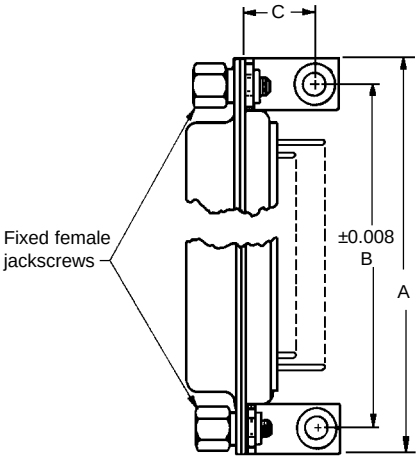
Typical Part Number: MD15F600T20

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Downloaded from Arrow.com.

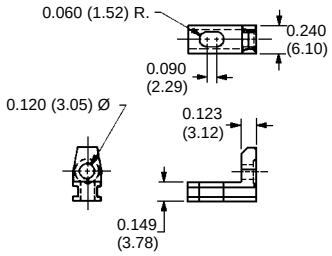
90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.283 (7.19) CONTACT EXTENSION

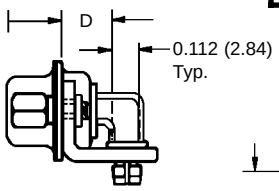


MD005R4000 0.283 (7.19) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
MD905R4000	1.204 (30.58)	0.984 (24.99)	0.339 (8.61)	0.283 (7.19)
MD1505R4000	1.532 (38.91)	1.312 (33.32)	0.339 (8.61)	0.283 (7.19)
MD2505R4000	2.072 (52.63)	1.852 (47.04)	0.339 (8.61)	0.283 (7.19)
MD2905R4000	1.754 (44.55)	1.534 (38.96)	0.395 (10.03)	0.283 (7.19)
MD3705R4000	2.720 (69.09)	2.500 (63.50)	0.339 (8.61)	0.283 (7.19)
MD5005R4000	2.626 (66.70)	2.406 (61.11)	0.395 (10.03)	0.283 (7.19)

PLASTIC MOUNTING BRACKET AVAILABLE
Specify code B7 or B8 in step 5 of ordering information.

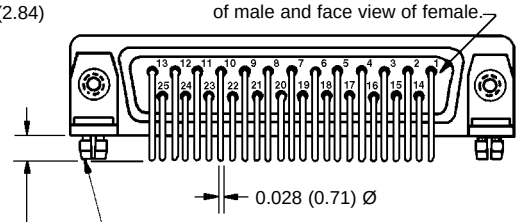


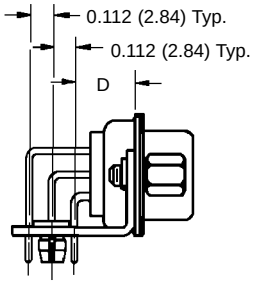
Specify code 5 in step 4 of ordering information.



Typical Part Number: MD25M5R4NT2X

Numbering shown is rear view of male and face view of female.

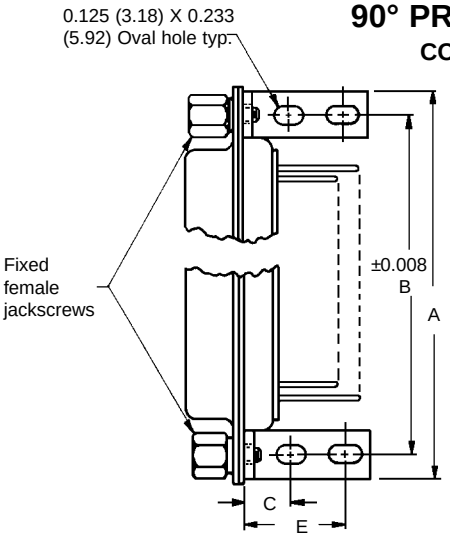




Typical Part Number: MD50M5R4NT2X

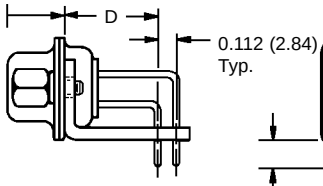
90° PRINTED BOARD MOUNT CONNECTOR

CODE 59, 0.545 (13.84) CONTACT EXTENSION



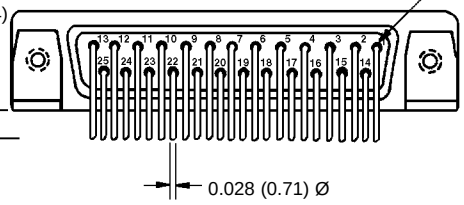
MD0059B000 0.545 (13.84) CONTACT EXTENSION					
PART NUMBER	A	B	C	D	E
MD9059B000	1.204 (30.58)	0.984 (24.99)	0.275 (6.99)	0.545 (13.84)	0.601 (15.27)
MD15059B000	1.532 (38.91)	1.312 (33.32)	0.275 (6.99)	0.545 (13.84)	0.601 (15.27)
MD25059B000	2.072 (52.63)	1.852 (47.04)	0.275 (6.99)	0.545 (13.84)	0.601 (15.27)
MD29059B000	1.754 (44.55)	1.534 (38.96)	0.275 (6.99)	0.545 (13.84)	0.657 (16.69)
MD37059B000	2.720 (69.09)	2.500 (63.50)	0.275 (6.99)	0.545 (13.84)	0.601 (15.27)
MD50059B000	2.626 (66.70)	2.406 (61.11)	0.275 (6.99)	0.545 (13.84)	0.657 (16.69)

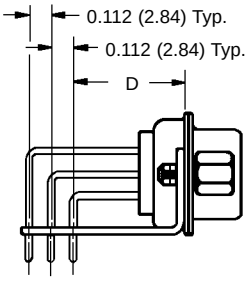
Specify code 59 in step 4 of ordering information.



Typical Part Number: MD25M59B0T2X

Numbering shown is rear view of male and face view of female





Typical Part Number: MD29M59B0T2X

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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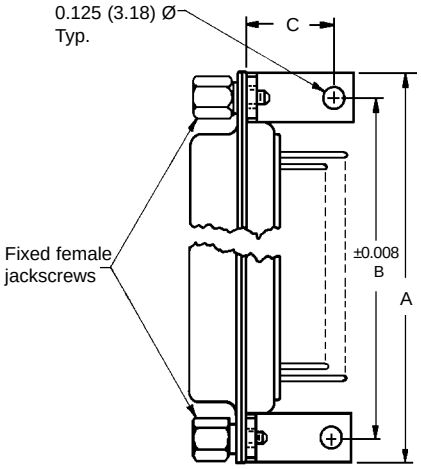
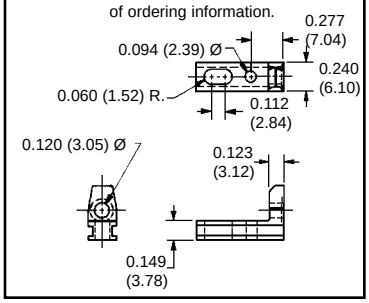
90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.450 (11.43) CONTACT EXTENSION

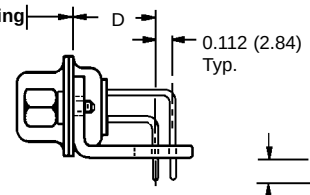


MD004B000 0.450 (11.43) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
MD904B000	1.204 (30.58)	0.984 (24.99)	0.506 (12.85)	0.450 (11.43)
MD1504B000	1.532 (38.91)	1.312 (33.32)	0.506 (12.85)	0.450 (11.43)
MD2504B000	2.072 (52.63)	1.852 (47.04)	0.506 (12.85)	0.450 (11.43)
MD2904B000	1.754 (44.55)	1.534 (38.96)	0.562 (14.27)	0.450 (11.43)
MD3704B000	2.720 (69.09)	2.500 (63.50)	0.506 (12.85)	0.450 (11.43)
MD5004B000	2.626 (66.70)	2.406 (61.11)	0.562 (14.27)	0.450 (11.43)

PLASTIC MOUNTING BRACKET AVAILABLE
Specify code B7 or B8 in step 5
of ordering information.

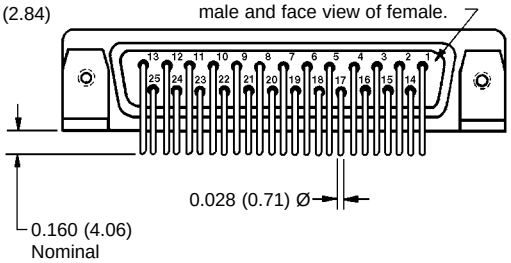


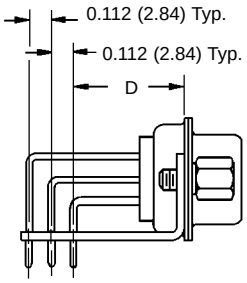
Specify code 4 in step 4 of ordering information.



Typical Part Number:
MD25M4B0T20

Numbering shown is rear view of male and face view of female.

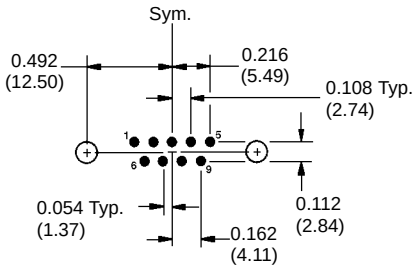




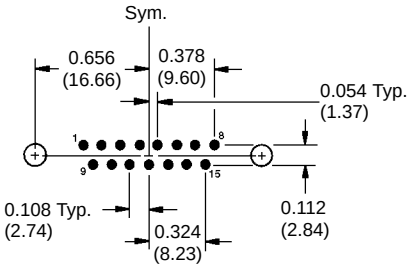
Typical Part Number:
MD50M4B0T20

90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

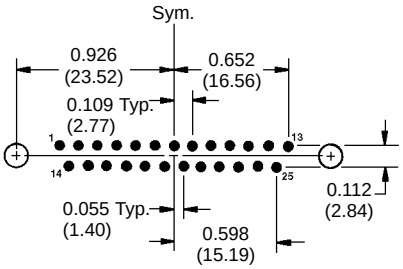
Hole identification shown for male connector, use mirror image for female connector.
Mount connector with mating face positioned to follow direction of arrow.



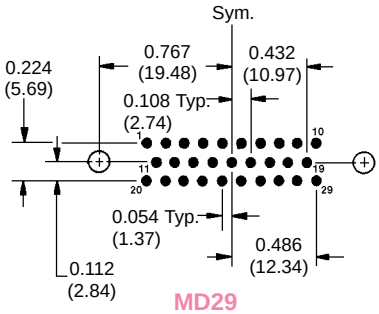
MD9



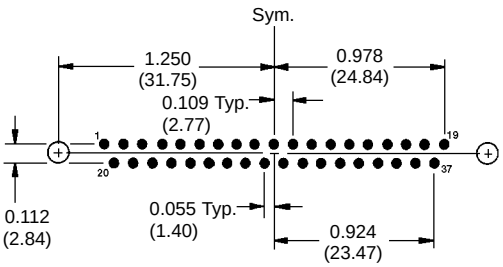
MD15



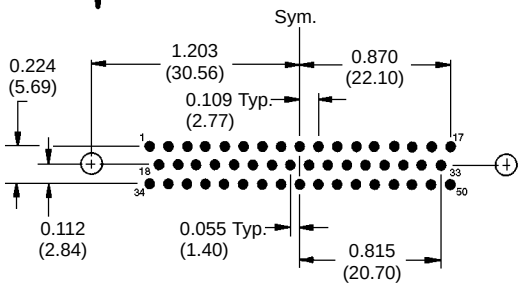
MD25



MD29



MD37



MD50

Suggest 0.045 (1.14) Ø hole for contact termination positions.

Suggest 0.123 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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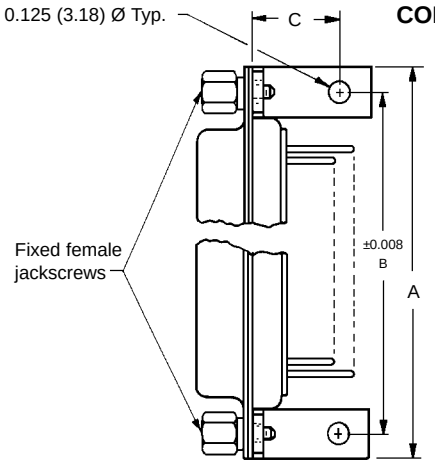
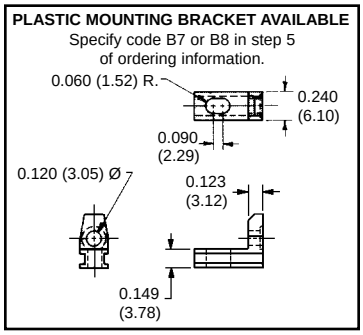
90° PRINTED BOARD MOUNT CONNECTOR

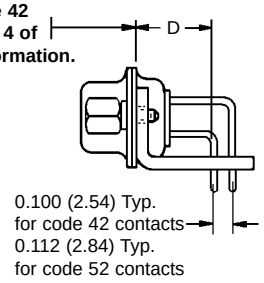
CODE 42 AND 52, 0.370 (9.40) CONTACT EXTENSION



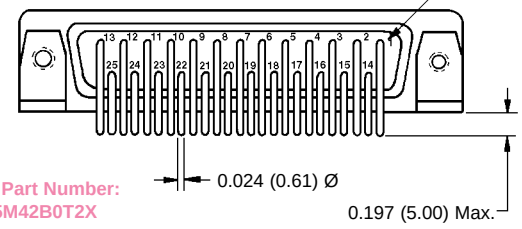
ED00*B000 0.370 (9.40) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
ED90*B000	1.204 (30.58)	0.984 (24.99)	0.420 (10.67)	0.370 (9.40)
ED150*B000	1.532 (38.91)	1.312 (33.32)	0.420 (10.67)	0.370 (9.40)
ED250*B000	2.072 (52.63)	1.852 (47.04)	0.420 (10.67)	0.370 (9.40)
ED290*B000	1.754 (44.55)	1.534 (38.96)	0.470 (11.94)	0.370 (9.40)
ED370*B000	2.720 (69.09)	2.500 (63.50)	0.420 (10.67)	0.370 (9.40)
ED500*B000	2.626 (66.70)	2.406 (61.11)	0.470 (11.94)	0.370 (9.40)



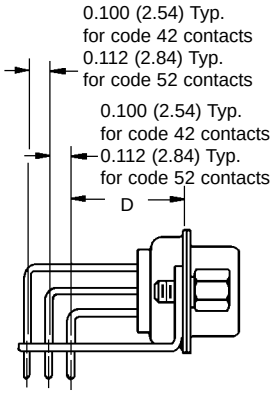
Specify code 42 or 52 in step 4 of ordering information.



Numbering shown is rear view
of male and face view of female.



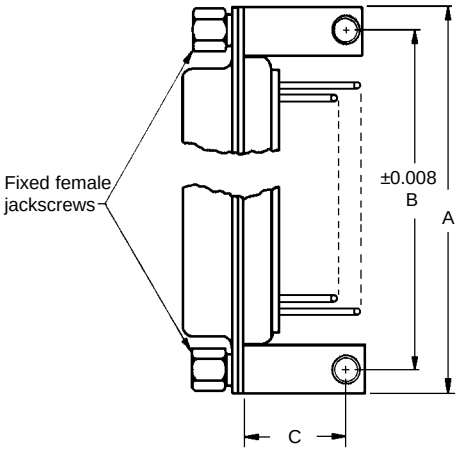
Typical Part Number:
ED25M42B0T2X



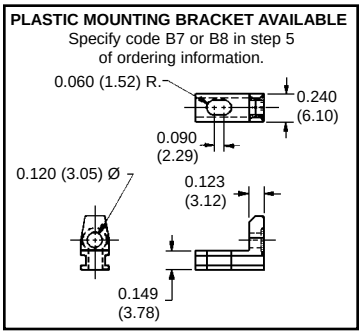
Typical Part Number:
ED50M52B0T2X

90° PRINTED BOARD MOUNT CONNECTOR

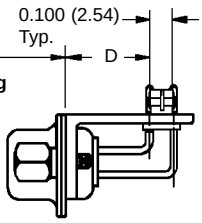
CODE 44, 0.370 (9.40) CONTACT EXTENSION



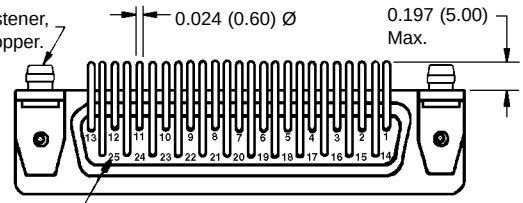
ED0044B000 0.370 (9.40) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
ED9044B000	1.204 (30.58)	0.984 (24.99)	0.420 (10.67)	0.370 (9.40)
ED15044B000	1.532 (38.91)	1.312 (33.32)	0.420 (10.67)	0.370 (9.40)
ED25044B000	2.072 (52.63)	1.852 (47.04)	0.420 (10.67)	0.370 (9.40)
ED29044B000	1.754 (44.55)	1.534 (38.96)	0.470 (11.94)	0.370 (9.40)
ED37044B000	2.720 (69.09)	2.500 (63.50)	0.420 (10.67)	0.370 (9.40)
ED50044B000	2.626 (66.70)	2.406 (61.11)	0.470 (11.94)	0.370 (9.40)



Specify code 44 in step 4 of ordering information.

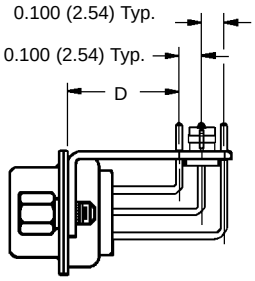


Push-on fastener,
beryllium copper.



Numbering shown is rear view
of male and face view of female.

Typical Part Number:
ED25M44BNT2X



Typical Part Number:
ED29M44BNT2X

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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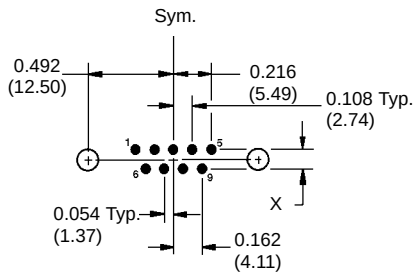
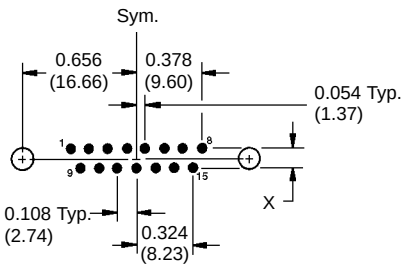
90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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

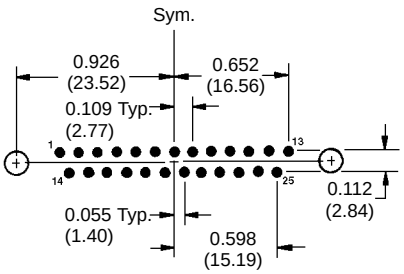
For code 42 and 52 contacts, mount connector with mating face positioned to follow direction of arrow.
For code 44 contacts, mount connector with mating face positioned to oppose direction of arrow.



ED9



ED15



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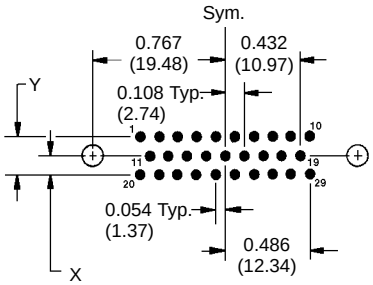
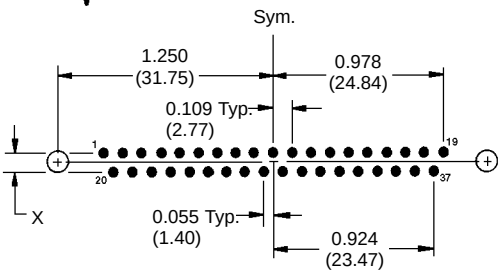
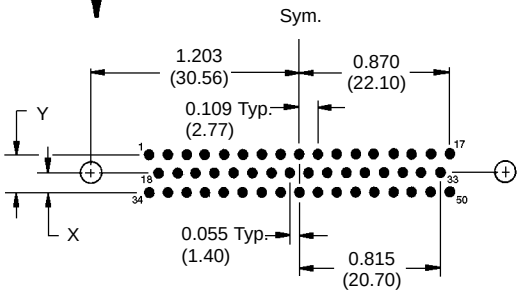


ED29



ED37



ED50

CODE NUMBER	X	Y
36	0.112 (2.84)	0.224 (5.69)
42	0.100 (2.54)	0.200 (5.08)
44	0.100 (2.54)	0.200 (5.08)
52	0.112 (2.84)	0.224 (5.69)

Suggest 0.040 (1.02) Ø hole for contact termination positions.

Suggest 0.123 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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ORDERING INFORMATION – CODE NUMBERING SYSTEM

MELO-D SERIES

STEP	1	2	3	4	5	6	7	8	—	9
	MD	25	F	59	R7	N	T6	X		

STEP 1 - Basic Series
MD Series

STEP 2 - MD Series Connector Variants
9, 15, 25, 29, 37, 50

STEP 3 - Connector Gender
M – Male
F – Female

STEP 4 - Type of Contacts
2 – Solder cup.
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.

***STEP 5 - Mounting Style**
0 – Mounting Hole, 0.120 (3.05) Ø.
B – Bracket, Mounting, 90° Metal.
B3 – Bracket, Mounting, 90° Metal with Cross Bar.
B7 – Bracket, Mounting, 90° Plastic.
B8 – Bracket, Mounting, 90° Plastic with Cross Bar.
F – Float Mounts, Universal.
P – Threaded Post, Brass, 0.225 (5.71) Length.
P2 – Threaded Post, Nylon, 0.225 (5.71) Length.
R – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews.
R2 – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar.
R3 – Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 (3.05) Ø Mounting Hole.
R4 – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads.
R5 – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut.
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, 0.225 (5.71) 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, 0.225 (5.71) Length.
S7 – 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.

STEP 9 - Special Options
Consult Sales Department.

STEP 8 - Shell Options
0 – Zinc Plated, with Dichromate Seal.
X – Tin Plated.
Z – Tin Plated and Dimpled.

***STEP 7 - Locking and Polarizing Systems**
0 – None.
V3 – Lock Tab, connector front panel mounted.
V5 – Lock Tab, connector rear panel mounted.
VL – Lock Lever, used with Hoods only.
T – Fixed Female Jackscrews.
T2 – Fixed Female Jackscrews.
T6 – Fixed Male and Female Polarized Jackscrews.
E – Rotating Male Jackscrews.
E2 – Rotating Male Screw Locks.
E6 – Rotating Male and Female Polarized Jackscrews.

***STEP 6 - Hoods and Push-On Fasteners**
0 – None.
J – Hood, Top Opening, Plastic.
L – 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 and 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 50 only.
W – Hood, Top or Side Opening, Plastic. Available in size 9, 15, and 25 only.
N – Push-on Fastener, for 90° Mounting Brackets.
**F – Ferrite inductor.
**Q – Ferrite inductor for use with Push-on Fastener and 90° Mounting Brackets.

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

EURO-D SERIES

STEP	1	2	3	4	5	6	7	8	—	9
	ED	25	F	42	R7	N	T2	0		

STEP 1 - Basic Series
ED Series

STEP 2 - ED Series Connector Variants
9, 15, 25, 29, 37, 50

STEP 3 - Connector Gender
M – Male
F – Female

STEP 4 - Type of Contacts
2 – Solder cup.
36 – 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 Mount with 0.370 (9.40) Contact Extension.
52 – Solder, 90° Printed Board Mount with 0.370 (9.40) Contact Extension.

***STEP 5 - Mounting Style**
Refer to MD Series Step 5

STEP 9 - Special Options
Consult Sales Department

STEP 8 - Shell Options
0 – Zinc Plated, with Dichromate Seal.
X – Tin Plated.
Z – Tin Plated and Dimpled.

***STEP 7 - Locking and Polarizing Systems**
Refer to MD Series Step 7

***STEP 6 - Hoods and Push-On 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.

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Soli-D Series

PROFESSIONAL QUALITY, REMOVABLE CONTACT, SUBMINIATURE-D CONNECTORS
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Removable

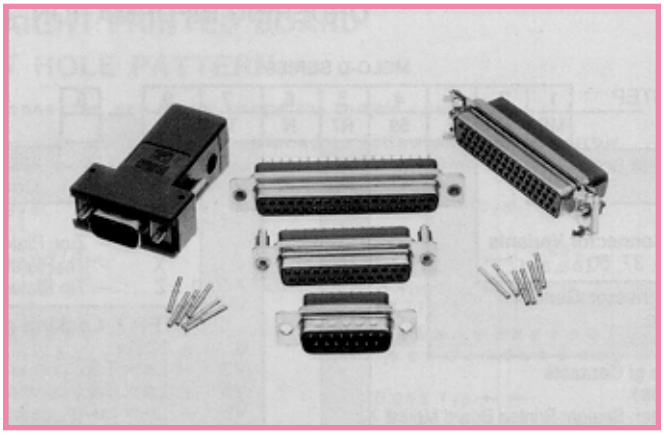
Professional Quality Connectors

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 brass alloy. Female contacts – precision machined high tensile phosphor bronze.
Contact Plating:	Professional performance – gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc plate with dichromate seal.
Mounting Spacers:	Nylon plastic, or brass, zinc plate with 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 nickel plate.
Hoods:	Thermoplastic UL 94V-0. Composite, 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 (1.0mm^2) through 32 AWG (0.03mm^2). 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 polarized jackscrews.
Printed Board Mount:	Rapid installation push-on fasteners.
Locking Systems:	Jackscrews and vibration locking systems.
Mechanical Operations:	500 operations minimum per IEC 512-5.

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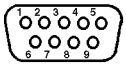
PROFESSIONAL QUALITY, REMOVABLE CONTACT, SUBMINIATURE-D CONNECTORS

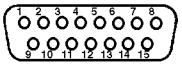
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

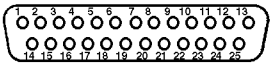
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



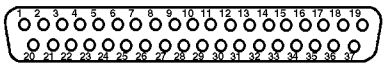
SD 9



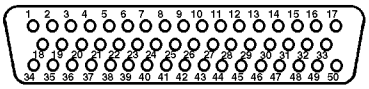
SD 15



SD 25

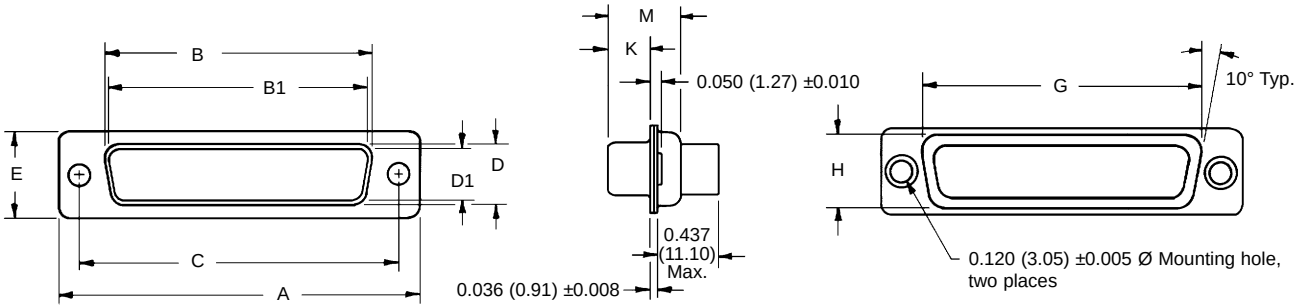


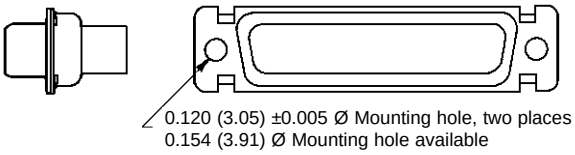
SD 37



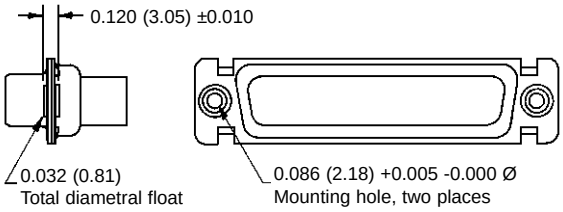
SD 50

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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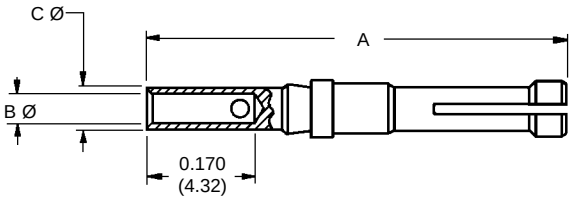
CRIMP CONTACTS

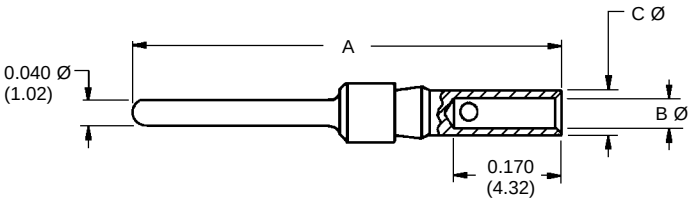
CLOSED CRIMP BARREL

FEMALE CONTACT



PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
FC7520D	20 / 22 / 24 (0.5/0.3/0.25)	0.612 (15.54)	0.045 (1.14)	0.066 (1.68)
FC7526D	26 / 28 / 30 (0.12/0.08/0.05)	0.612 (15.54)	0.026 (0.66)	0.066 (1.68)

MALE CONTACT

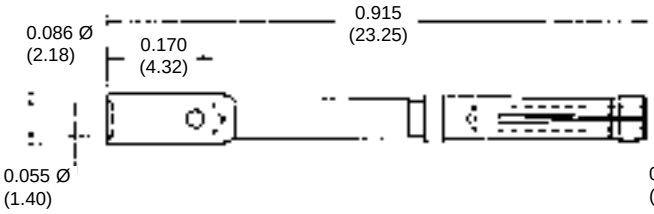


PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
MC7520D	20 / 22 / 24 (0.5/0.3/0.25)	0.618 (15.70)	0.045 (1.14)	0.066 (1.68)
MC7526D	26 / 28 / 30 (0.12/0.08/0.05)	0.618 (15.70)	0.026 (0.66)	0.066 (1.68)

Crimp contacts must be ordered separately.

FEMALE CONTACT

18 AWG (1.0 mm²) max.



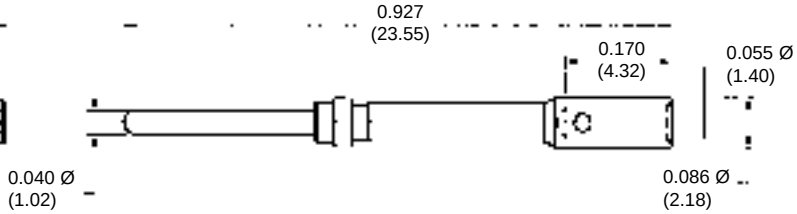
FC7518D

Material – Phosphor bronze.

Plating – Gold flash over nickel.

MALE CONTACT

18 AWG (1.0 mm²) max.



MC7518D

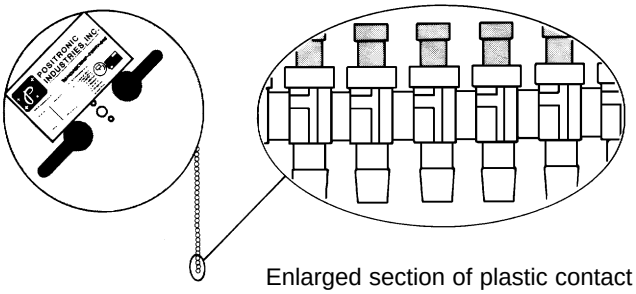
Material – Brass.

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.



Enlarged section of plastic contact carriers

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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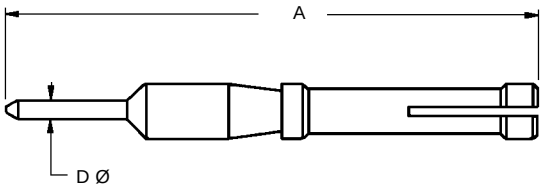
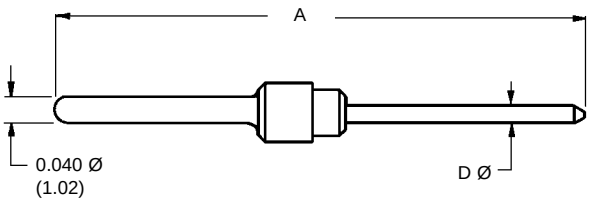
STRAIGHT PRINTED BOARD MOUNT CONTACTS

FEMALE CONTACT



MALE CONTACT

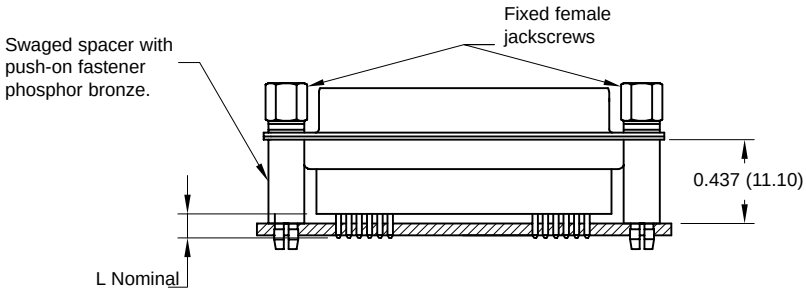


Straight printed board mount contacts are supplied in connector.

CODE NUMBER	L	D Ø	A
3	0.125 (3.18)	0.024 (0.61)	0.772 (19.61)
32	0.188 (4.78)	0.024 (0.61)	0.835 (21.21)

CODE NUMBER	L	D Ø	A
3	0.125 (3.18)	0.024 (0.61)	0.768 (19.51)
32	0.188 (4.78)	0.024 (0.61)	0.831 (21.11)

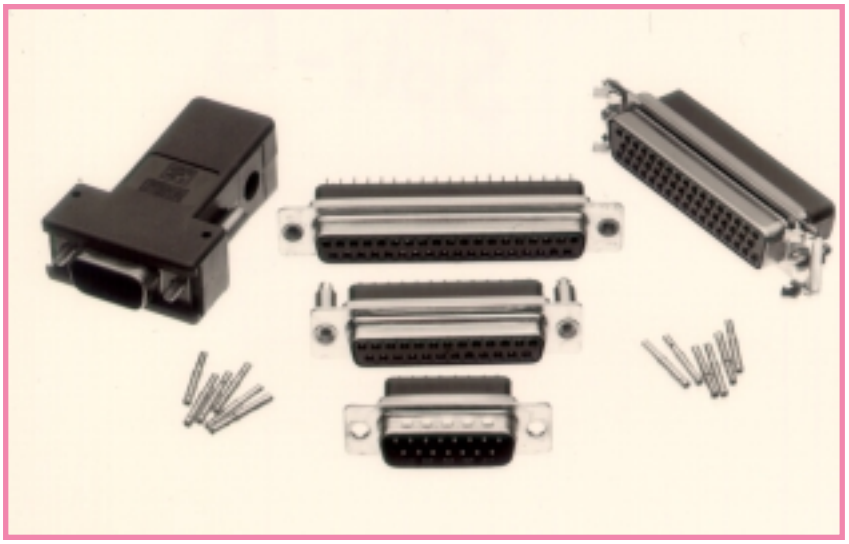
For straight printed board mount contacts specify code no. in step 4 of ordering information.



DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Typical Part Number:
SD37F3S60T2X

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



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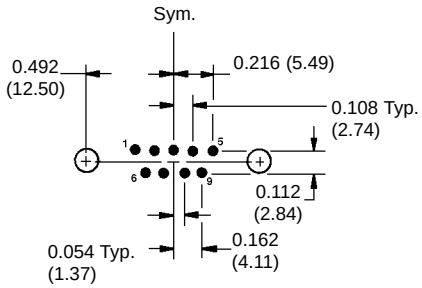
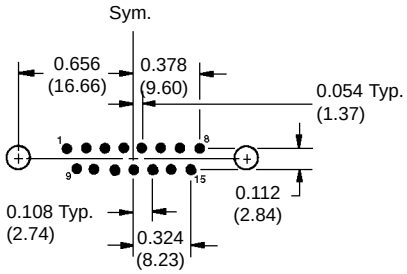
STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

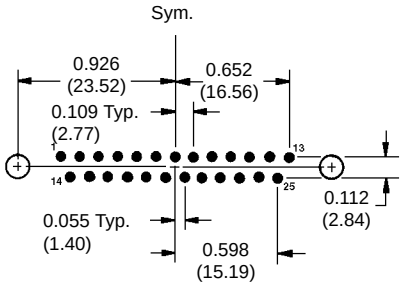
Hole identification shown for male connector, use mirror image for female connector.



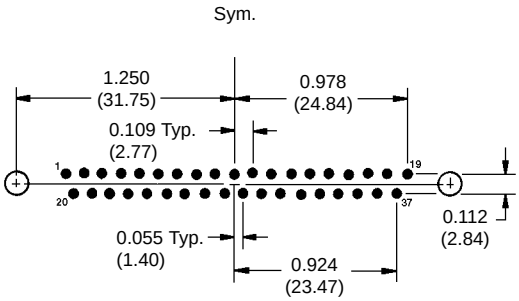
SD9



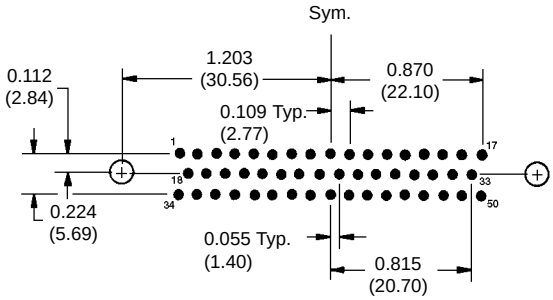
SD15



SD25



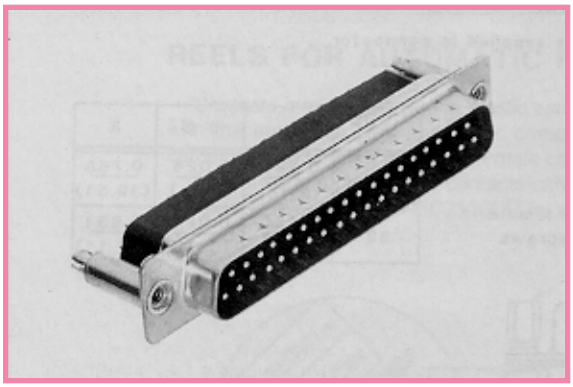
SD37



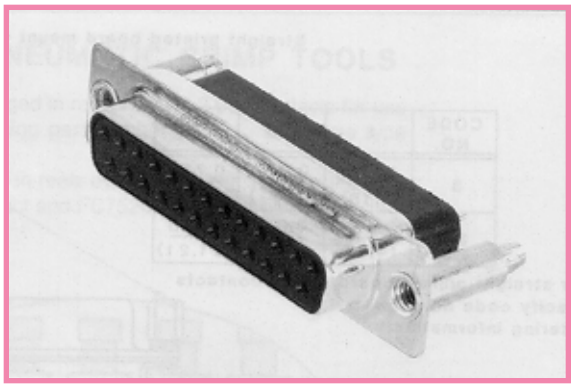
SD50

Suggest 0.045 (1.14) Ø hole for contact termination positions.

Suggest 0.123 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.



SD37M3S600Z



SD25F3S600X

**DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.**

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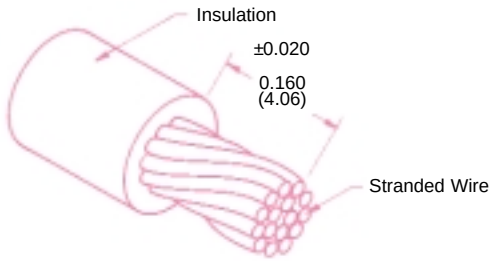
CRIMPING INFORMATION FOR RD AND SD SERIES CRIMP CONTACTS

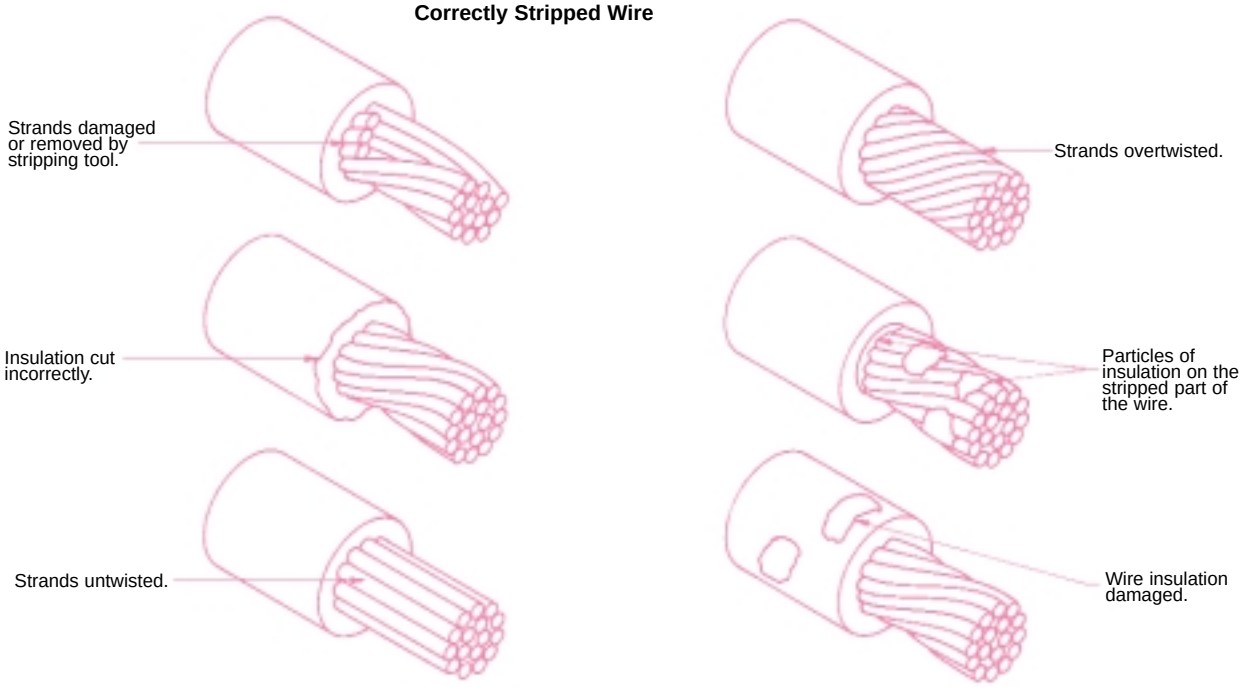
USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

Step 1: Strip wire to indicated length.

Take Care Not To:
- **Damage or remove strands.**
- **Untwist or overtwist strands.**
- **Leave insulation particles on strands.**
- **Damage insulation.**



Correctly Stripped Wire



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.**

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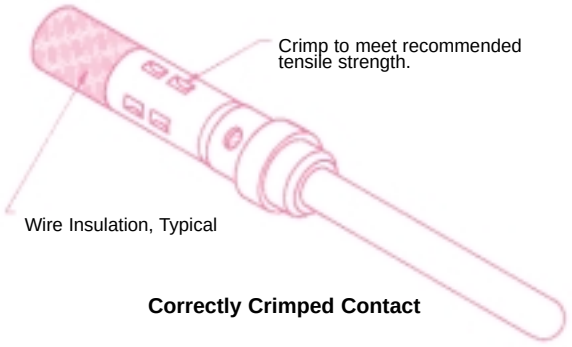
CRIMPING INFORMATION FOR RD AND SD CRIMP CONTACTS

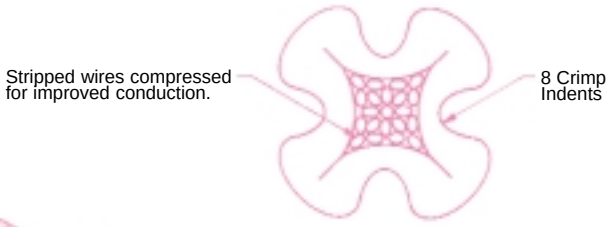
Step 3: Inspect the crimp.

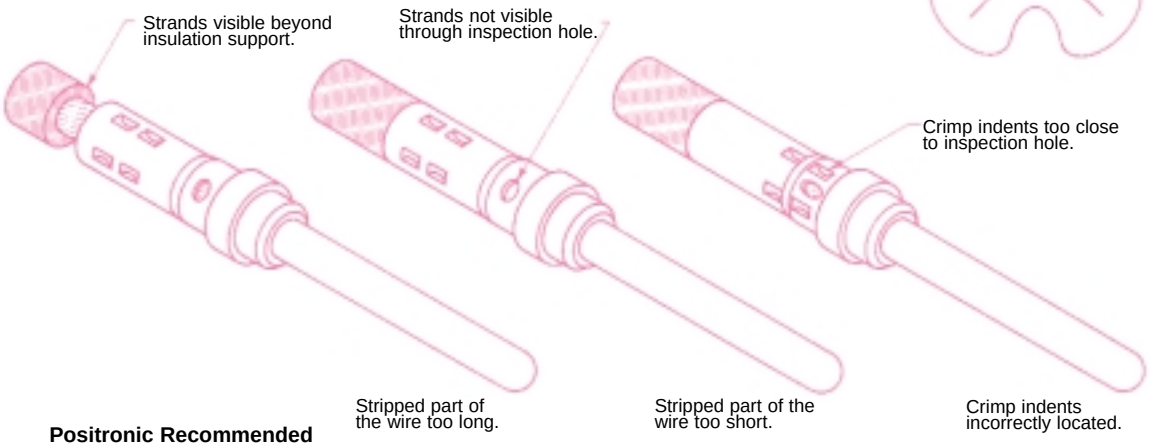
For All Tools:
- **Strands to be visible through the inspection hole.**
- **Strands not to be visible beyond the insulation support.**
- **Crimped contact to meet recommended conductor tensile force shown in chart.**
- **Check for peeled gold and bent contacts.**



Correctly Crimped Contact

Cross Section of Correctly Crimped Contact





Examples of Crimping Faults

Positronic Recommended Conductor Tensile Strength

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

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.

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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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
	SD	25	F	3	S6	0	T6	X	

STEP 1 - Basic Series
SD Series

STEP 2 - SD Series Connector Variants
9, 15, 25, 37, 50

STEP 3 - Connector Gender
M - Male
F - Female

STEP 4 - Type of Contacts
0 - Order Contacts separately.
1 - Crimp, 20 AWG–24 AWG (0.5mm²–0.25mm²).
12 - Crimp, 26 AWG–30 (0.12mm²–0.05mm²).
3 - Solder, Straight Printed Board Mount with 0.125 (3.18) Tail Length.
32 - Solder, Straight Printed Board Mount with 0.188 (4.78) Tail Length.

***STEP 5 - Mounting Style**
0 - Mounting Hole, 0.120 (3.05) Ø.
F - Float Mounts, Universal.
P - Threaded Post, Brass, 0.437 (11.10) Length.
P2 - Threaded Post, Nylon, 0.437 (11.10) Length.
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.

***STEP 6 - Hoods**
0 - None.
J - Hood, Top Opening, Plastic.
L - Hood, Side Opening, Plastic.
Y - Hood, Side 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 and Extended Height, Composite and Plastic with Rotating Male Jackscrews.
H - Hood, Top Opening, Metal. Available in size 15, 25, 37, and 50 only.
G - Hood, EMI/RFI, Metal.
W - Hood, Top or Side Opening, Plastic. Available in size 9,15, and 25 only.

***STEP 7 - Locking and Polarizing Systems**
0 - None.
V3 - Lock Tab, connector front panel mounted.
V5 - Lock Tab, connector rear panel mounted.
VL - Lock Lever, used with Hoods Only.
T - Fixed Female Jackscrews.
T2 - Fixed Female Jackscrews.
T6 - Fixed Male and Female Polarized Jackscrews.
E - Rotating Male Jackscrews.
E2 - Rotating Male Screw Locks.
E6 - Rotating Male and Female Polarized Jackscrews.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
X - Tin Plated.
Z - Tin Plated and Dimpled.

STEP 9 - Special Options
Consult Sales Department.

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

SD SERIES CRIMP CONTACT TERMINATIONS

TERMINATION TYPE	CONTACT SIZE	WIRE SIZE AWG/(mm²)	FEMALE PART NUMBER	MALE PART NUMBER
CRIMP	20	20 / 22 / 24 (0.5/0.3/0.25)	FC7520D	MC7520D
CRIMP	26	26 / 28 / 30 (0.12/0.08/0.05)	FC7526D	MC7526D

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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 (0.5mm^2) through 32 AWG (0.03mm^2). Soli-D Series contacts must be ordered on reels.

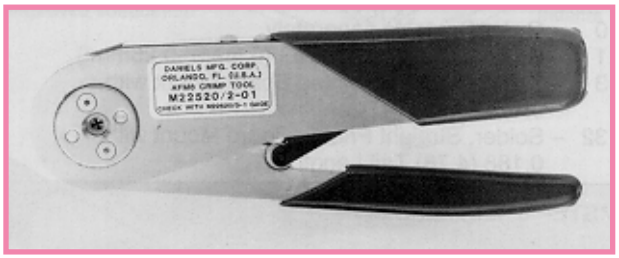
To order, specify part number 9550-1. Foot control valve is supplied as a standard accessory.

MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01)
Part No. 9507

This miniature 8 step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG (1.0mm^2) through 32 AWG (0.03mm^2).

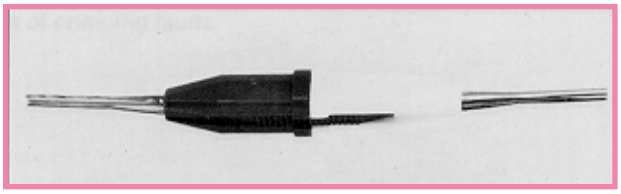
To crimp wire size 18 AWG (1.0mm^2), order contact positioner 9502-11. To crimp wire size 20 AWG (0.5mm^2) through 32 AWG (0.03mm^2), order contact positioner 9502-10. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 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.



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Densi-D Series

MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Size 22 Contacts, Removable Crimp and Printed Board Mount

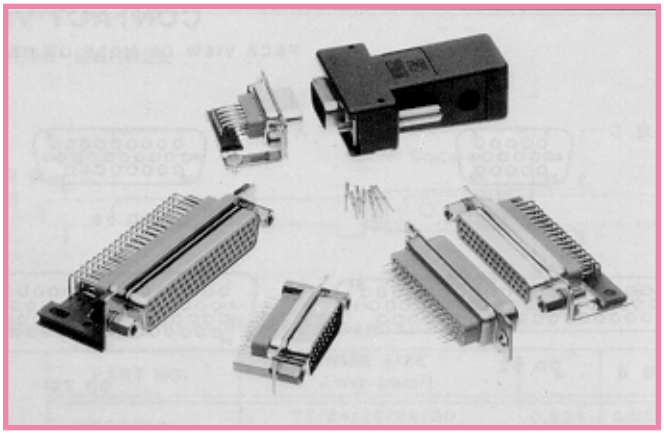
Military/Industrial Quality Connectors

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 and solder cup terminations for 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.
Contact Plating:	Military performance – 0.000050 inch (1.25 microns) gold over copper plate. Industrial performance – gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc and cadmium plate with dichromate seal, stainless steel, passivated.
Mounting Spacers:	Nylon plastic and brass; zinc plate with dichromate seal.
Push-On Fastener:	Phosphor bronze or beryllium copper with tin plate.
Vibration Lock Systems:	Slide lock and lock tabs, steel with nickel 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:	9 lbs. (40 N).
Contact Terminations:	Closed barrel crimp, wire sizes 22 AWG (0.3mm^2) through 30 AWG (0.05mm^2) per IEC 352-2. 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 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 systems.
Mechanical Operations:	1000 operations minimum per IEC 512-5.

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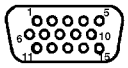
MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

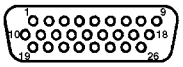
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

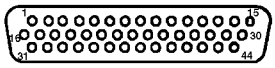
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



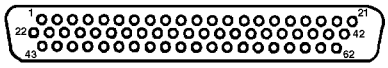
DD 15



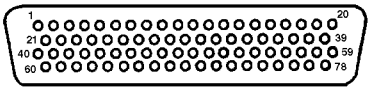
DD 26



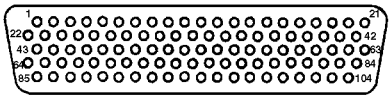
DD 44



DD 62

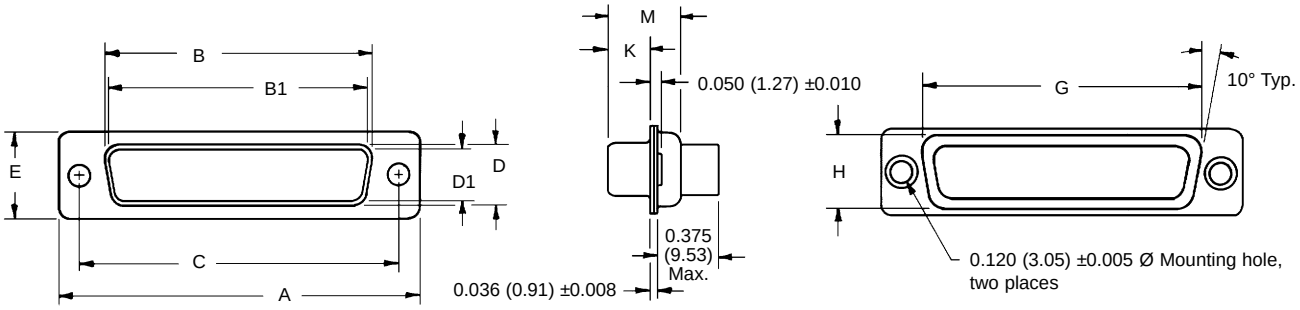


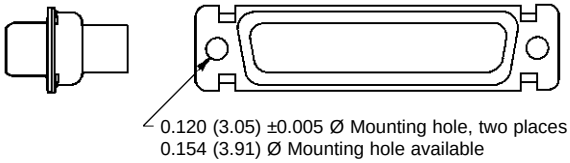
DD 78



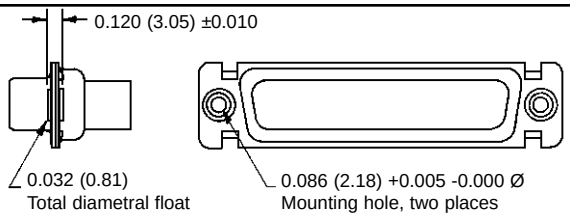
DD 104

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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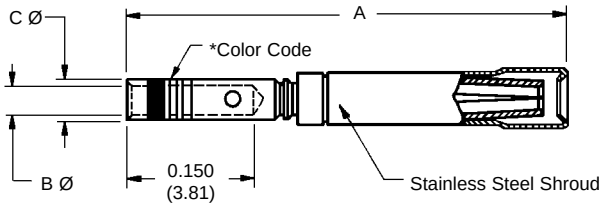
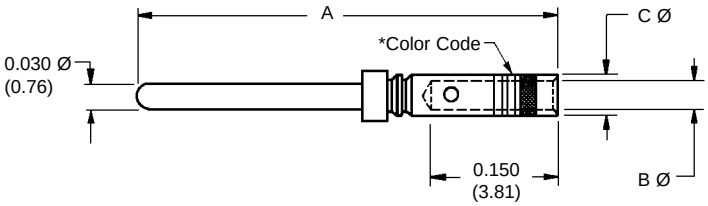
CRIMP CONTACTS

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)	A	B Ø	C Ø
FC8022D	22 / 24 / 26 / 28 / 30 (0.3/0.25/0.12/0.08/0.05)	0.518 (13.16)	0.035 (0.89)	0.047 (1.19)
*M39029/57-354	22 / 24 / 26 / 28 (0.3/0.25/0.12/0.08)	0.518 (13.16)	0.035 (0.89)	0.047 (1.19)

Material - Leaded nickel copper.
Plating - Gold flash over nickel or 0.000050 inch (1.25µ) gold over copper for military specification contacts.

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

PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
MC8022D	22 / 24 / 26 / 28 / 30 (0.3/0.25/0.12/0.08/0.05)	0.531 (13.49)	0.035 (0.89)	0.047 (1.19)
*M39029/58-360	22 / 24 / 26 / 28 (0.3/0.25/0.12/0.08)	0.531 (13.49)	0.035 (0.89)	0.047 (1.19)

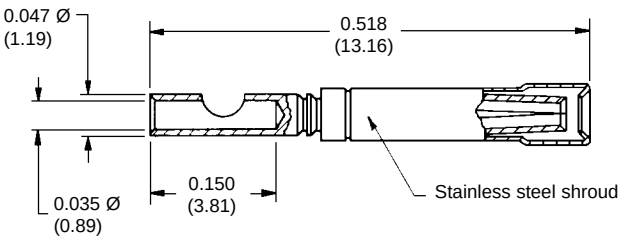
Material - Brass.
Plating - Gold flash over nickel or 0.000050 inch (1.25µ) gold over copper for military specification contacts.

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

For contact crimp tool information see page 29.

SOLDER CUP CONTACTS

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

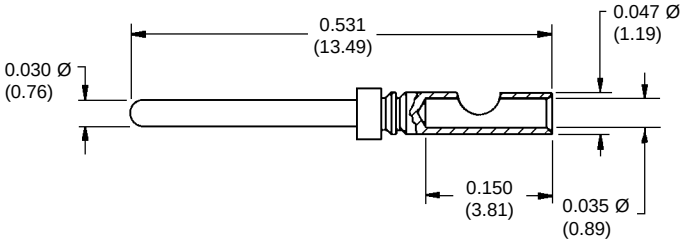


Part Number: FS8022D

Material - Phosphor bronze.

Plating - Gold flash over nickel.

MALE CONTACT



Part Number: MS8022D

Material - Brass.

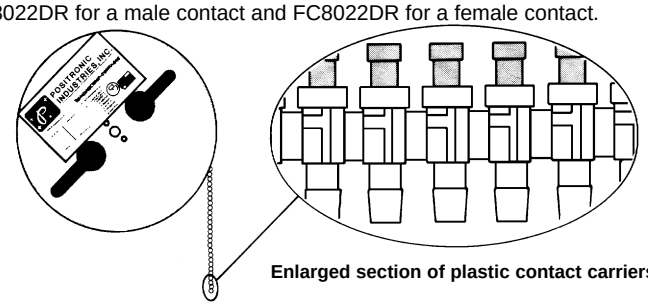
Plating - Gold flash over nickel.

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.



Enlarged section of plastic contact carriers

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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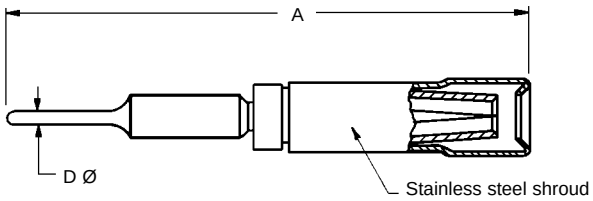
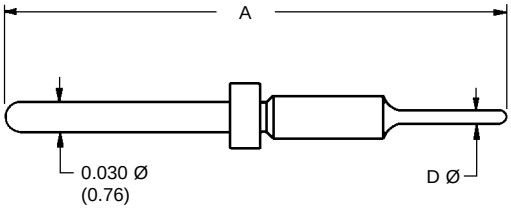
STRAIGHT PRINTED BOARD MOUNT CONTACTS

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)



MALE CONTACT

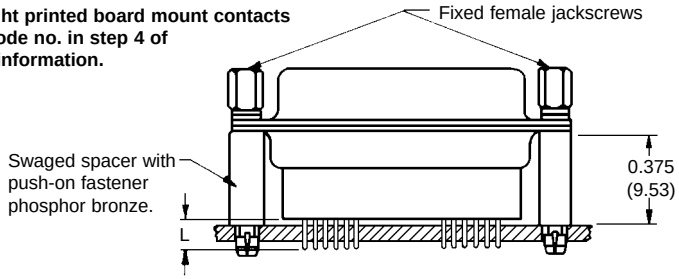


Straight printed board mount contacts are supplied in connector.

CODE NUMBER	L	D Ø	A
3	0.150 (3.81)	0.020 (0.51)	0.725 (18.42)
32	0.300 (7.62)	0.020 (0.51)	0.865 (21.97)

CODE NUMBER	L	D Ø	A
3	0.150 (3.81)	0.020 (0.51)	0.737 (18.72)
32	0.300 (7.62)	0.020 (0.51)	0.877 (22.28)

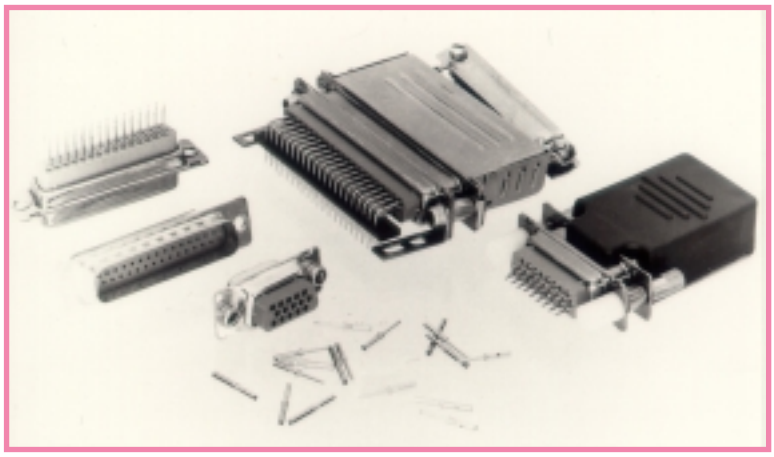
For straight printed board mount contacts specify code no. in step 4 of ordering information.

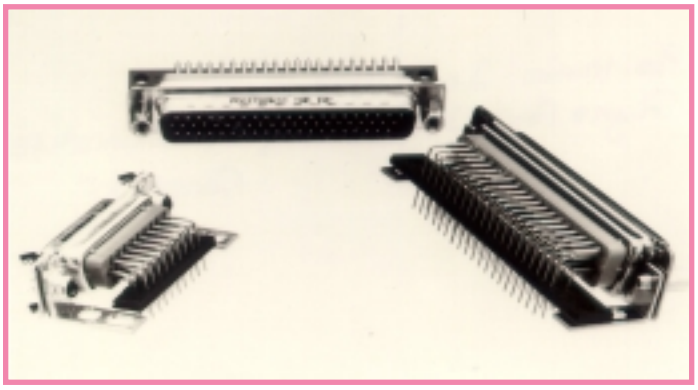


Material - Phosphor bronze.

Plating - Gold flash over nickel.

Typical Part Number: DD62F3S60T2X





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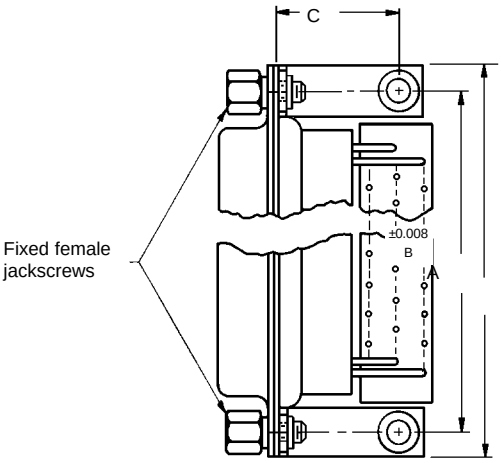
90° PRINTED BOARD MOUNT CONNECTOR

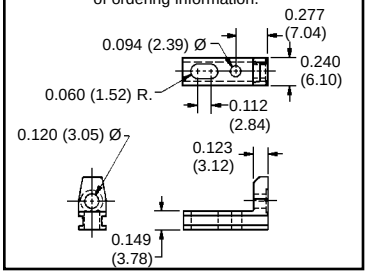
CODE 4, 0.450 (11.43) CONTACT EXTENSION



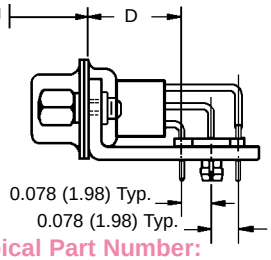
DD004R7000 0.450 (11.43) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
DD1504R7000	1.204 (30.58)	0.984 (24.99)	0.528 (13.41)	0.450 (11.43)
DD2604R7000	1.532 (38.91)	1.312 (33.32)	0.528 (13.41)	0.450 (11.43)
DD4404R7000	2.072 (52.63)	1.852 (47.04)	0.528 (13.41)	0.450 (11.43)
DD6204R7000	2.720 (69.09)	2.500 (63.50)	0.528 (13.41)	0.450 (11.43)
DD7804R7000	2.626 (66.70)	2.406 (61.11)	0.573 (14.55)	0.450 (11.43)

PLASTIC MOUNTING BRACKET AVAILABLE

Specify code B8 in step 5 of ordering information.

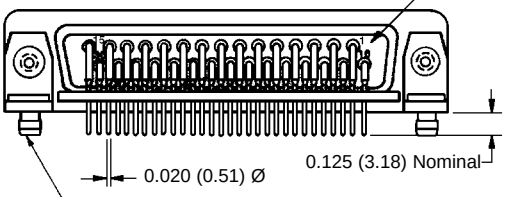


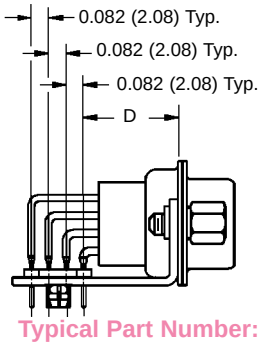
Specify code 4 in step 4 of ordering information.



Typical Part Number: DD44F4R7NT2X

Numbering shown is rear view of male and face view of female.

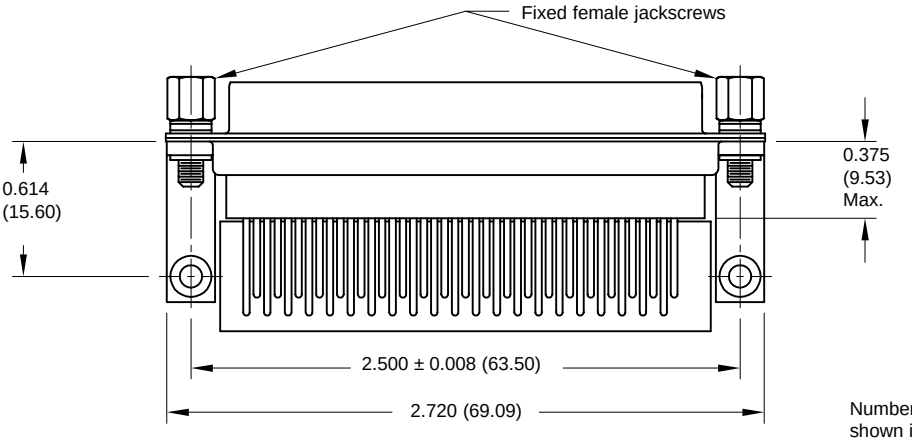




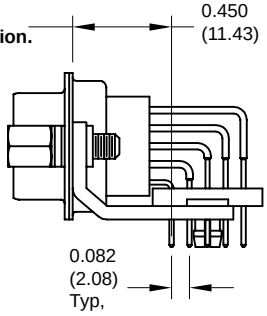
Typical Part Number: DD78M4R7NT2X

90° PRINTED BOARD MOUNT CONNECTOR, SIZE 104

CODE 4, 0.450 (11.43) CONTACT EXTENSION

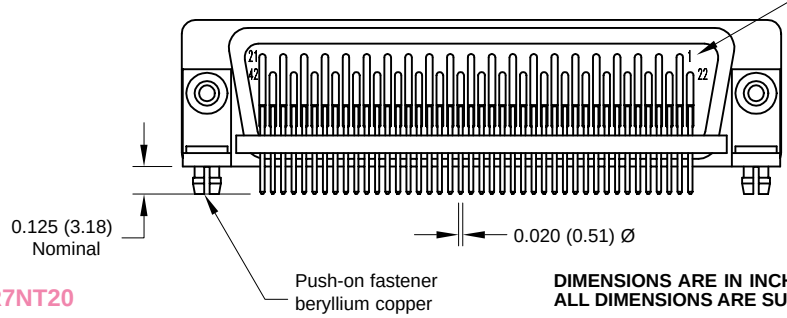


Specify code 4 in step 4 of ordering information.



Typical Part Number: DD104M4R7NT20

Numbering shown is rear view of male and face view of female.



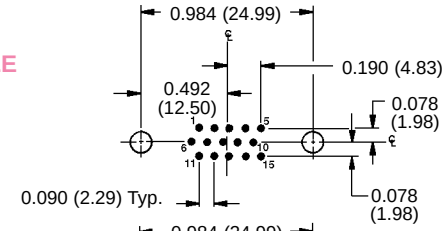
DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Downloaded from Arrow.com.

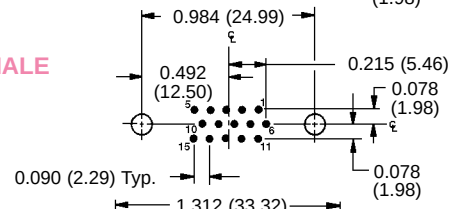
90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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

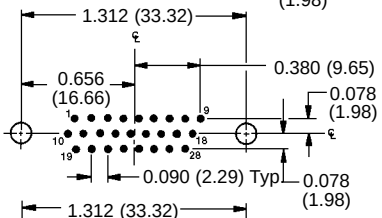
DD15 MALE



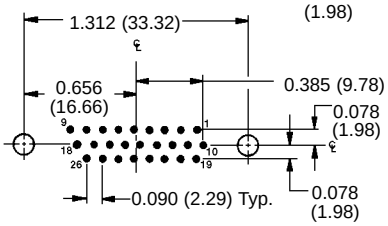
DD15 FEMALE



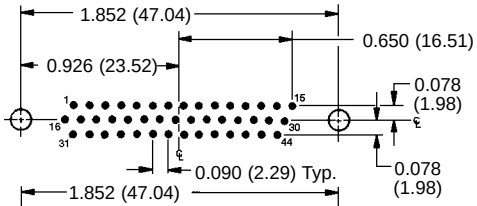
DD26 MALE



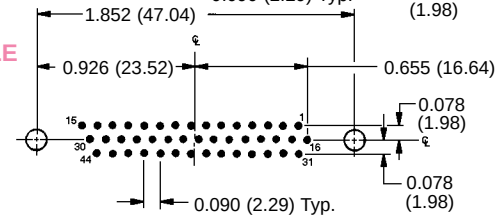
DD26 FEMALE



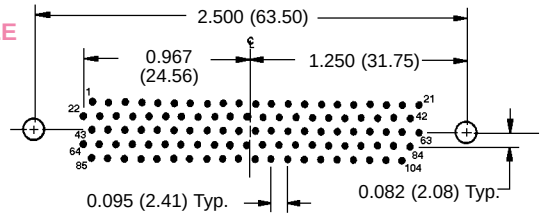
DD44 MALE



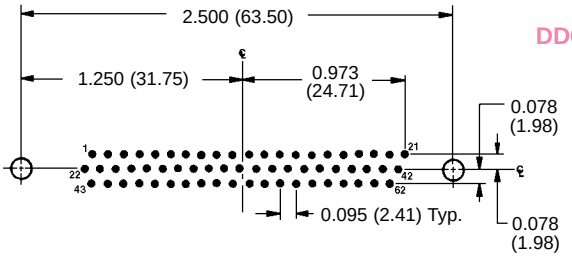
DD44 FEMALE



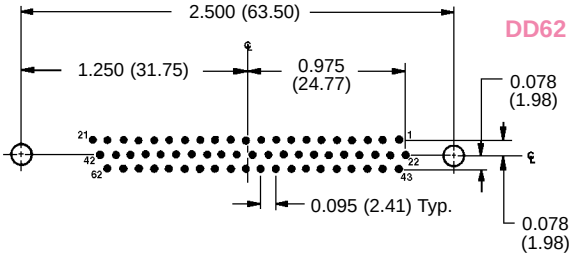
DD104 MALE



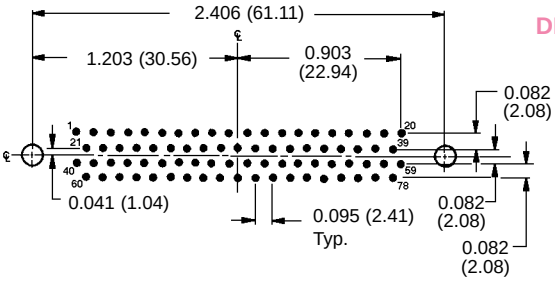
DD62 MALE



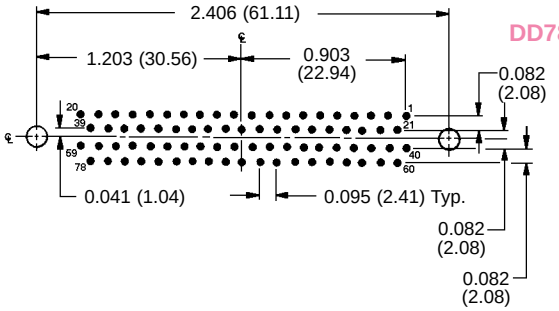
DD62 FEMALE



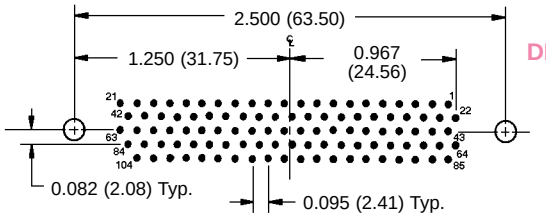
DD78 MALE



DD78 FEMALE



DD104 FEMALE



Suggest 0.035 (0.89) Ø hole for contact termination positions.
Suggest 0.123 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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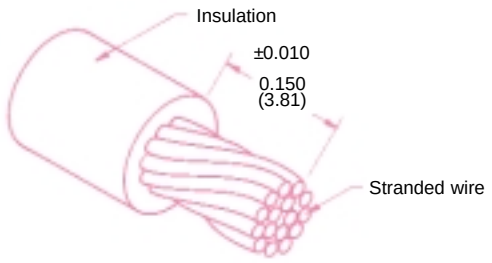
CRIMPING INFORMATION FOR DD AND ODD SERIES CRIMP CONTACTS

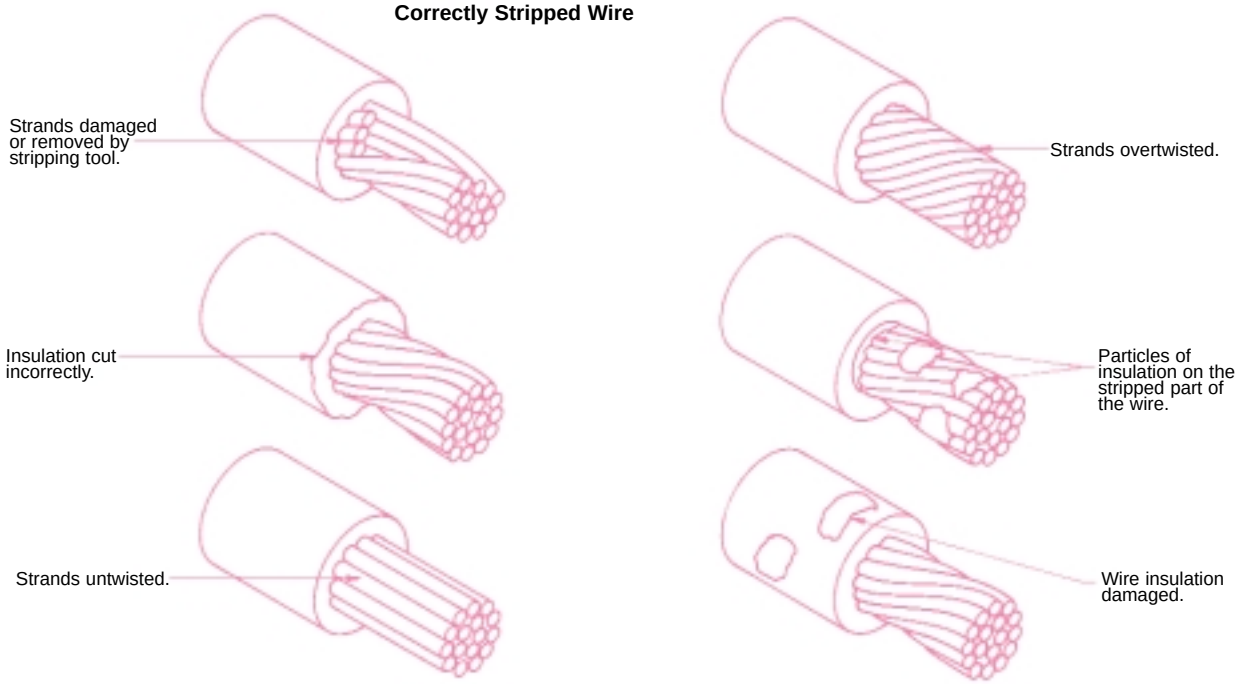
USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

Step 1: Strip wire to indicated length.

Take Care Not To:
- **Damage or remove strands.**
- **Untwist or overtwist strands.**
- **Leave insulation particles on strands.**
- **Damage insulation.**



Correctly Stripped Wire



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.**

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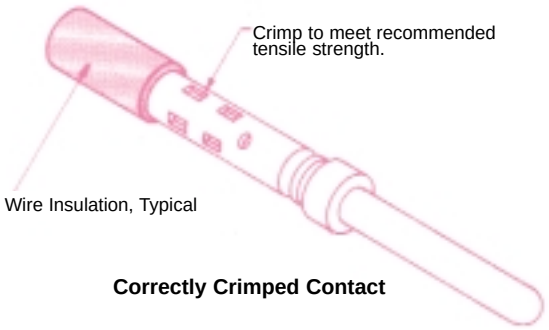
CRIMPING INFORMATION FOR DD AND ODD CRIMP CONTACTS

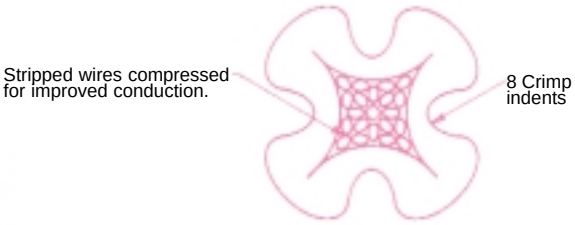
Step 3: Inspect the crimp.

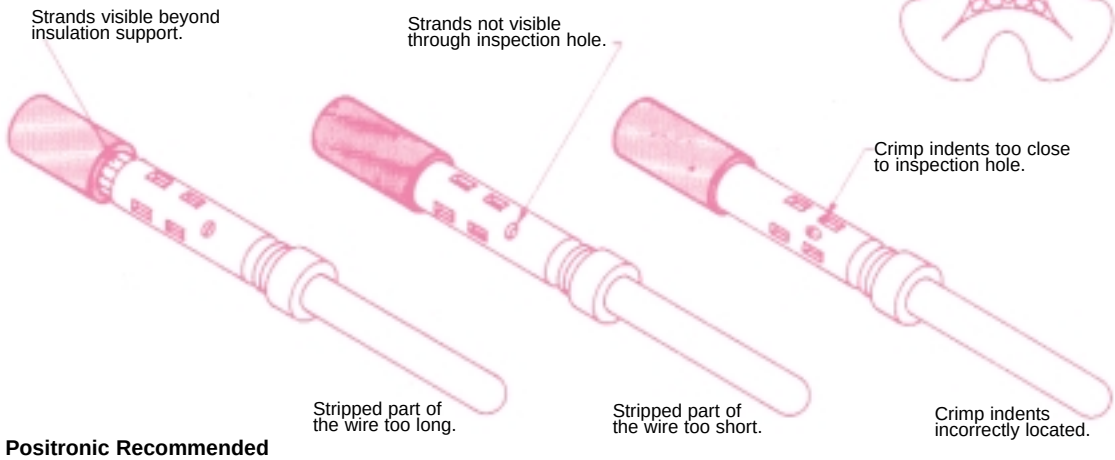
For All Tools:
- **Strands to be visible through the inspection hole.**
- **Strands not to be visible beyond the insulation support.**
- **Crimped contact to meet recommended conductor tensile force shown in chart.**
- **Check for peeled gold and bent contacts.**



Correctly Crimped Contact

Cross Section of Correctly Crimped Contact





Examples of Crimping Faults

Positronic Recommended Conductor Tensile Strength

WIRE SIZE AWG/(mm²)	AXIAL LOAD POUNDS/(N)
22 (0.3)	12 (53)
24 (0.25)	8 (36)
26 (0.12)	5 (22)
28 (0.08)	3 (13)
30 (0.05)	1.5 (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.

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

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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

STEP 2 - DD Series Connector Variants
15, 26, 44, 62, 78, 104

STEP 3 - Connector Gender
M - Male
F - Female

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).
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 0.450 (11.43) Contact Extension.

***STEP 5 - Mounting Style**
0 - Mounting Hole, 0.120 (3.05) Ø.
B3 - Bracket, Mounting, 90° Metal with Cross Bar.
B8 - Bracket, Mounting, 90° Plastic with Cross Bar.
F - Float Mounts, Universal.
P - Threaded Post, Brass, 0.375 (9.53) Length.
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.

***STEP 6 - Hoods and Push-On Fasteners**
0 - None.
J - Hood, Top Opening, Plastic.
L - Hood, Side Opening, Plastic.
Y - 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.
Z - Hood, Top or Side Opening, Robust and Extended Height, Composite and Plastic with Rotating Male Jackscrews. Available in size 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. Available in size 15, 26, 44, 62, and 78 only.
W - 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

***STEP 7 - Locking and Polarizing Systems**
0 - None.
V3 - Lock Tab, connector front panel mounted.
V5 - Lock Tab, connector rear panel mounted.
VL - Lock Lever, used with Hoods only.
T - Fixed Female Jackscrews.
T2 - Fixed Female Jackscrews.
T6 - Fixed Male and Female Polarized Jackscrews.
E - Rotating Male Jackscrews.
E2 - Rotating Male Screw Locks.
E6 - Rotating Male and Female Polarized Jackscrews.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
S - Stainless Steel.
X - Tin Plated.
Z - Tin Plated and Dimpled.
C - Cadmium with Dichromate Seal.

STEP 9 - Special Options
Consult Sales Department.

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

**Ferrite inductor is available on contact type 32 only.

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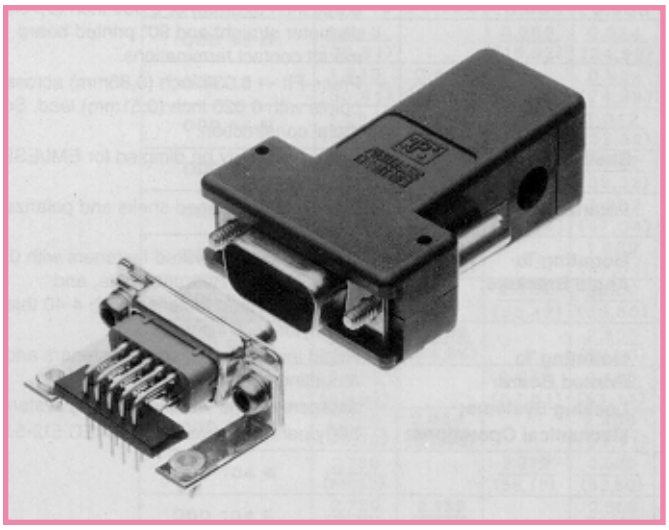
AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED

Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp on wire sizes 20 AWG (0.5mm^2) through 32 AWG (0.03mm^2). DD Series contacts must be ordered on reels.

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

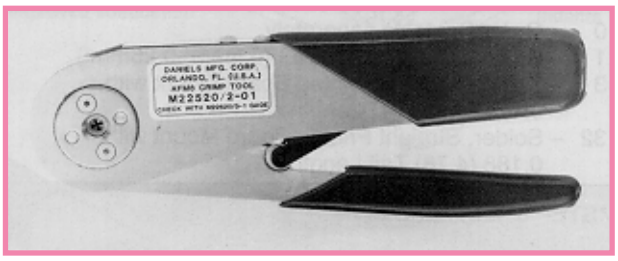


MINIATURE STEP ADJUSTABLE TOOL

(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 (0.5mm^2) through 32 AWG (0.03mm^2).

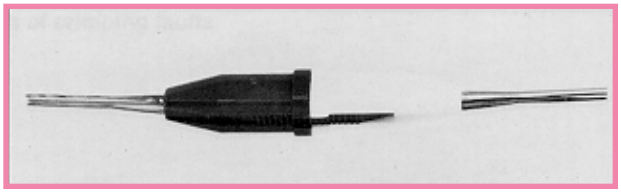
To crimp female contacts, order contact positioner 9502-3. To crimp male contacts, order contact positioner 9502-4. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping Densi-D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



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ODD Series

PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

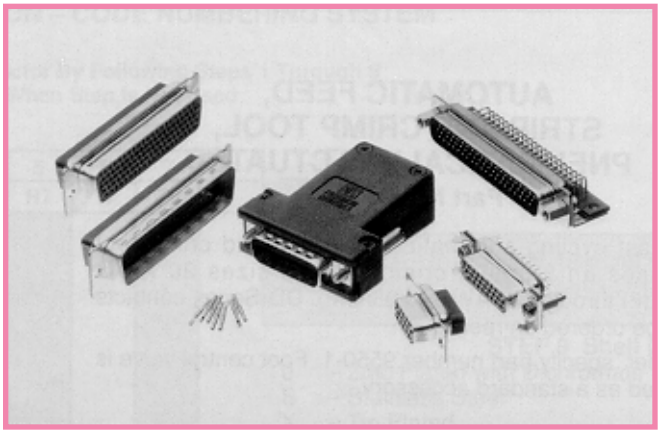
Size 22 Contacts, Removable Crimp and Fixed Press-Fit and Solder Printed Board Mount

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, press-fit and 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-sub-miniature 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 alloy 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 or brass with tin plate, zinc plate with dichromate seal.
Mounting Spacers:	Nylon, plastic and brass, zinc plate with dichromate seal.
Vibration Lock Systems:	Slide lock and lock tabs, steel with nickel 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 dichromate 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 (0.3mm^2) through 30 AWG (0.05mm^2). Solder cup wire, 0.035 inch (0.89mm) hole diameter for 22 AWG (0.3mm^2) wire maximum. 0.020 inch (0.5mm) or 0.030 inch (0.76mm) diameter straight and 90° printed board mount contact terminations. Solid Press-Fit – 0.034 inch (0.86mm) across points with 0.020 inch (0.51mm) lead. Solid metal construction. Compliant Press-Fit – 0.047 inch (1.19mm) diameter with 0.022 inch (0.56mm) lead-in diameter.
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 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:	500 operations minimum per IEC 512-5.

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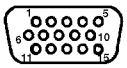
PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

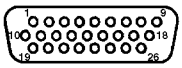
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

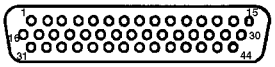
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



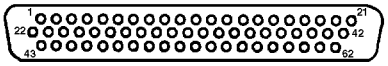
ODD 15



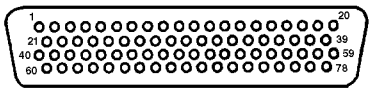
ODD 26



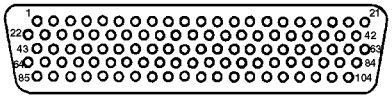
ODD 44



ODD 62

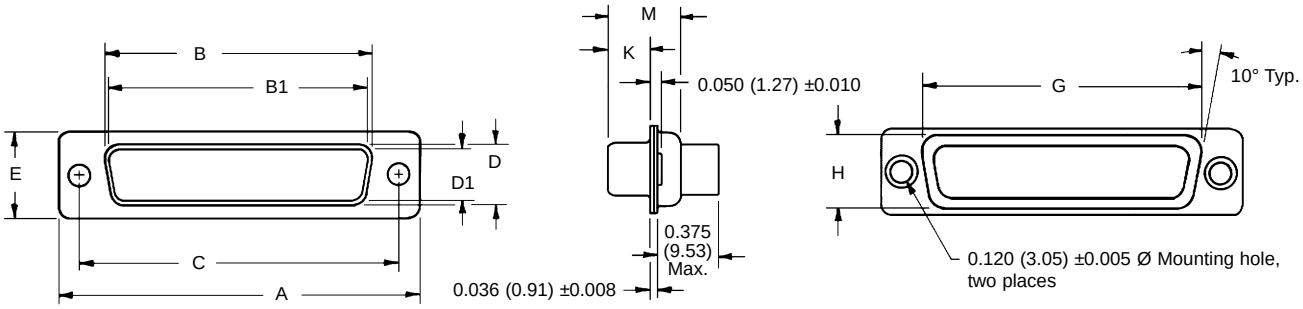


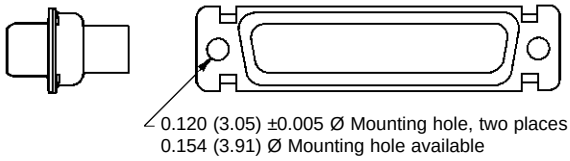
ODD 78



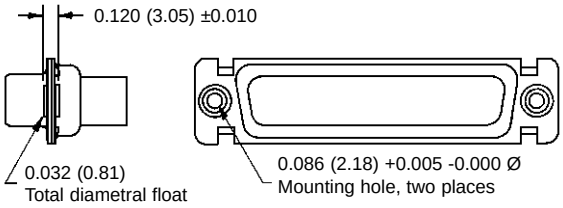
ODD 104

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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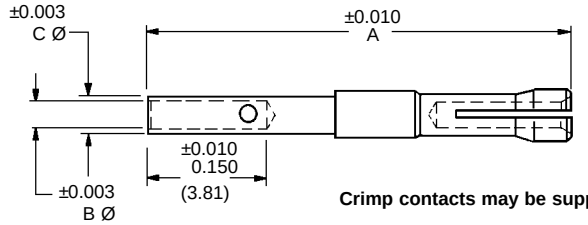
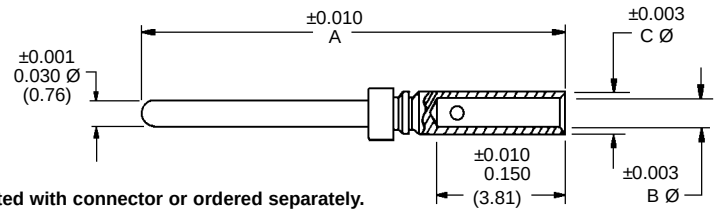
CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT



MALE CONTACT



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

PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
FC8122D	22 / 24 / 26 / 28 / 30 (0.3/0.25/0.12/0.08/0.05)	0.529 (13.44)	0.035 (0.89)	0.047 (1.19)

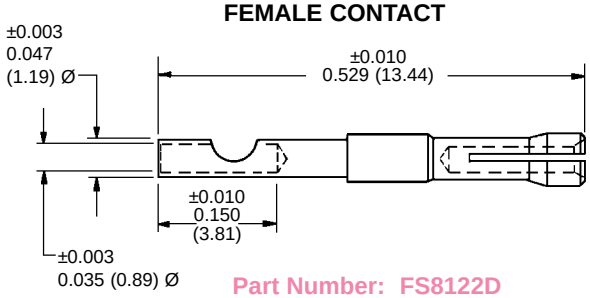
Material - Phosphor bronze
Plating - Gold flash over nickel

PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
MC8122D	22 / 24 / 26 / 28 / 30 (0.3/0.25/0.12/0.08/0.05)	0.531 (13.49)	0.035 (0.89)	0.047 (1.19)

Material - Brass
Plating - Gold flash over nickel

SOLDER CUP CONTACTS

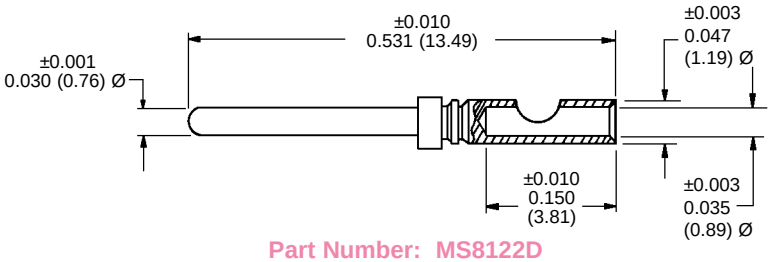
FEMALE CONTACT



Part Number: FS8122D

Material - Phosphor bronze
Plating - Gold flash over nickel

MALE CONTACT

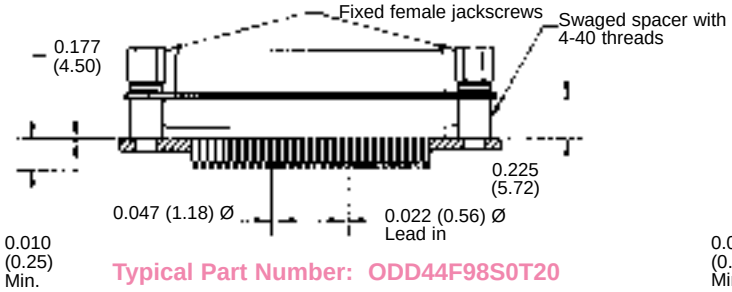


Part Number: MS8122D

Material - Brass
Plating - Gold flash over nickel

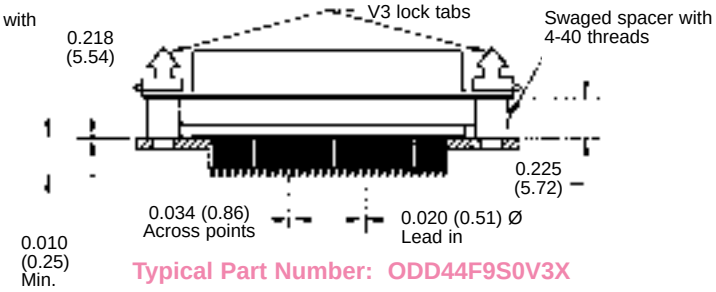
Solder contacts may be supplied kitted with connector or ordered separately.

Press-Fit CONNECTOR



Typical Part Number: ODD44F98S0T20

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



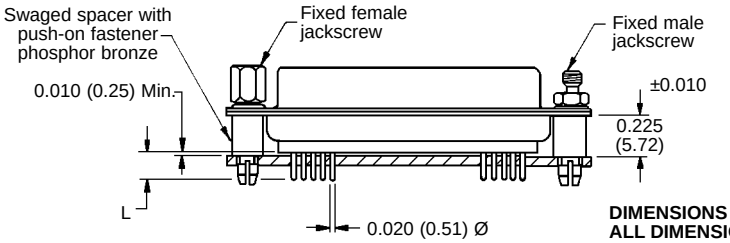
Typical Part Number: ODD44F9S0V3X

For solid press-fit contacts, specify code 9 in step 4 ordering information.

STRAIGHT PRINTED BOARD MOUNT CONNECTOR

Code No.	L
3	0.150 (3.81)
32	0.300 (7.62)

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



DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Typical Part Number: ODD62F3S60T6X

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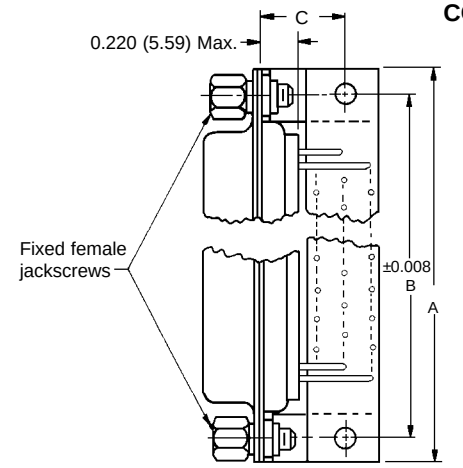
90° PRINTED BOARD MOUNT CONNECTOR

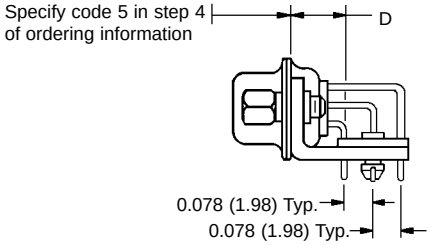
CODE 5, 0.450 (11.50) CONTACT EXTENSION

RUGGED "Robi-D Open Entry" FEMALE CONTACT

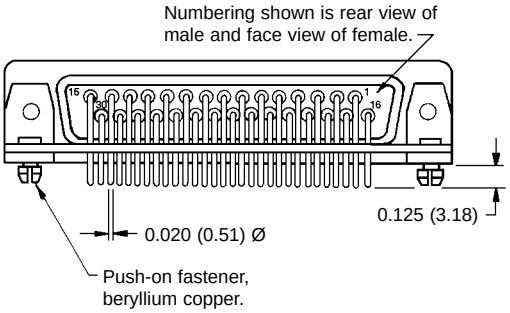


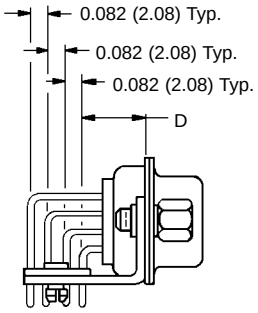
ODD005R7000 0.450 (11.43) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
ODD1505R7000	1.204 (30.58)	0.984 (24.99)	0.528 (13.41)	0.450 (11.43)
ODD2605R7000	1.532 (38.91)	1.312 (33.32)	0.528 (13.41)	0.450 (11.43)
ODD4405R7000	2.072 (52.63)	1.852 (47.04)	0.528 (13.41)	0.450 (11.43)
ODD6205R7000	2.720 (69.09)	2.500 (63.50)	0.528 (13.41)	0.450 (11.43)
ODD7805R7000	2.626 (66.70)	2.406 (61.11)	0.573 (14.55)	0.450 (11.43)

See next page for size 104 Right Angle Connectors.



Typical Part Number: ODD44F5R7NT2X



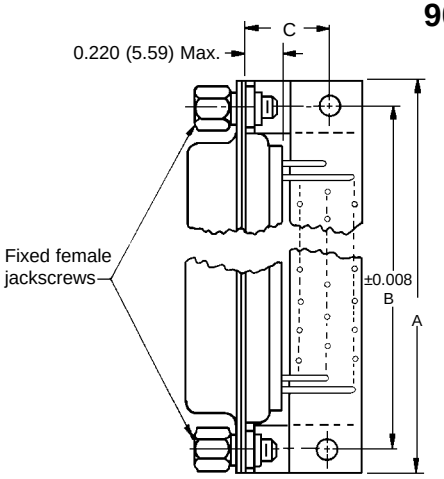


Typical Part Number: ODD78M5R7NT20

90° PRINTED BOARD MOUNT CONNECTOR

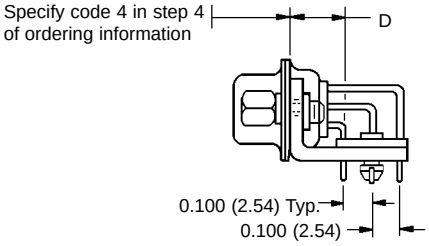
CODE 4, 0.314 (7.98) CONTACT EXTENSION

SLOTTED OPEN ENTRY FEMALE CONTACT

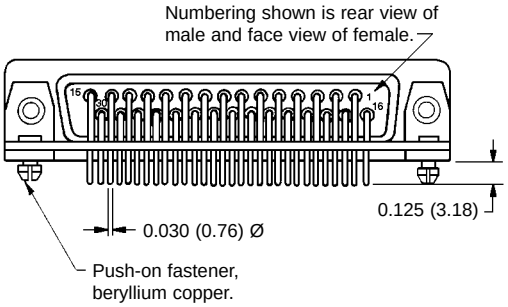


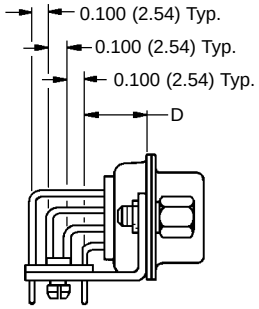
ODD004R7000 0.314 (7.98) CONTACT EXTENSION				
PART NUMBER	A	B	C	D
ODD1504R7000	1.204 (30.58)	0.984 (24.99)	0.414 (10.52)	0.314 (7.98)
ODD2604R7000	1.532 (38.91)	1.312 (33.32)	0.414 (10.52)	0.314 (7.98)
ODD4404R7000	2.072 (52.63)	1.852 (47.04)	0.414 (10.52)	0.314 (7.98)
ODD6204R7000	2.720 (69.09)	2.500 (63.50)	0.414 (10.52)	0.314 (7.98)
ODD7804R7000	2.626 (66.70)	2.406 (61.11)	0.414 (10.52)	0.314 (7.98)

See next page for size 104 Right Angle Connectors.



Typical Part Number: ODD44F4R7NT2X





Typical Part Number: ODD78M4R7NT20

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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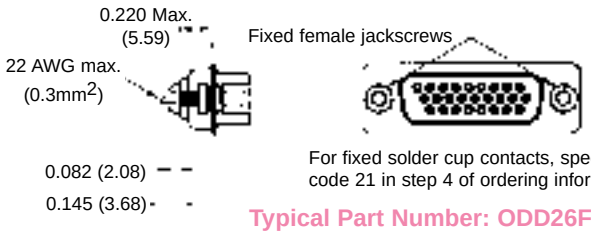
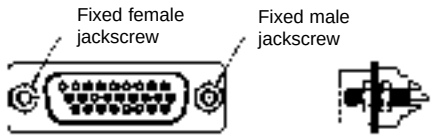
FIXED CONTACT SOLDER CUP CONNECTOR



For fixed solder cup contacts, specify code 21 in step 4 of ordering information.

Typical Part Number: ODD26F2100T2X



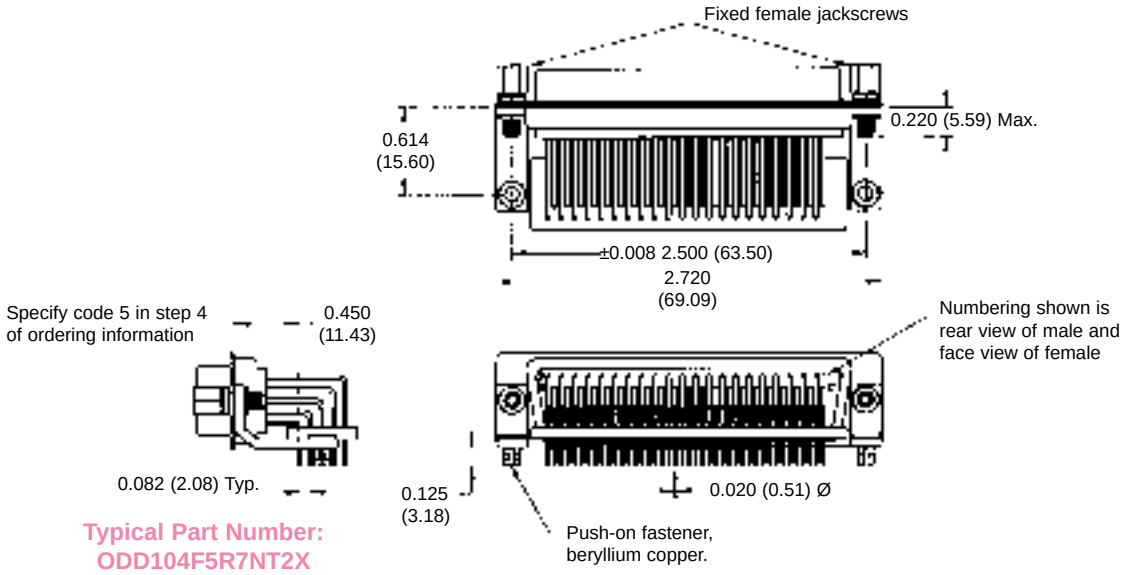
Fixed male and female polarized jackscrews available. Specify code T6 in step 7 of ordering information.

Typical Part Number: ODD26F2100T6X

90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.450 (11.43) CONTACT EXTENSION

RUGGED "Robi-D Open Entry" FEMALE CONTACT
CONTACT VARIANT 104

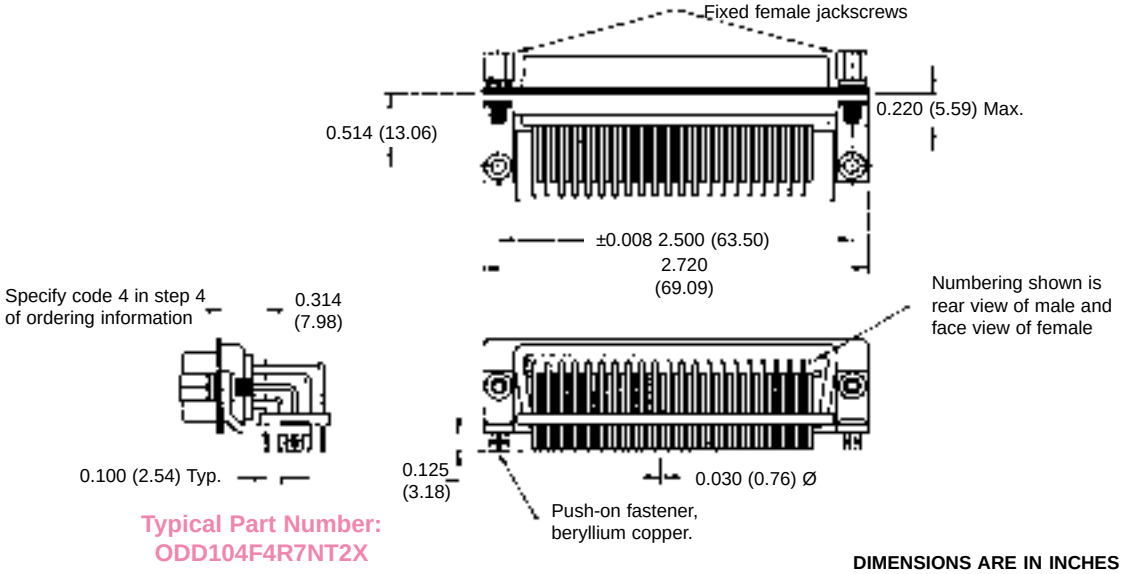


Typical Part Number: ODD104F5R7NT2X

90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.314 (7.98) CONTACT EXTENSION

SLOTTED OPEN ENTRY FEMALE CONTACT
CONTACT VARIANT 104



Typical Part Number: ODD104F4R7NT2X

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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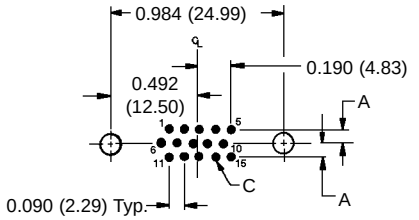
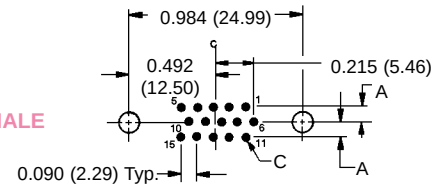
90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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

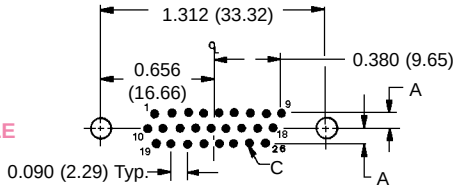
ODD15 MALE



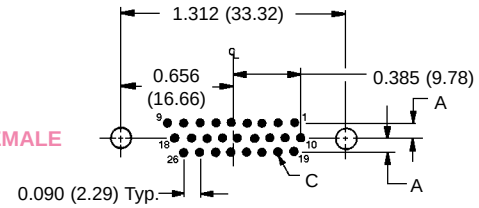
ODD15 FEMALE



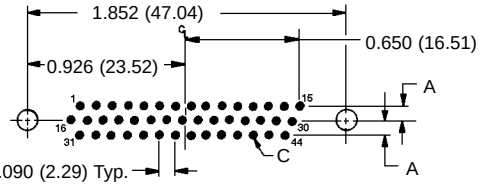
ODD26 MALE



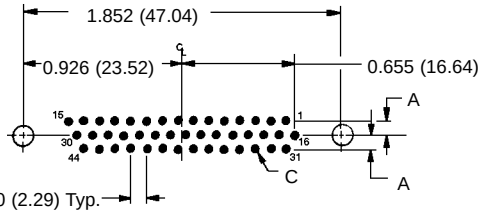
ODD26 FEMALE



ODD44 MALE



ODD44 FEMALE

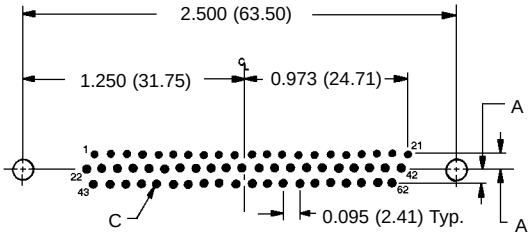


CODE NUMBER	A	B	C Ø	D
4	0.100 (2.54)	0.100 (2.54)	0.045 (1.14)	0.100 (2.54)
3, 32, 5	0.078 (1.98)	0.082 (2.08)	0.035 (0.89)	0.123 (3.12)
9, 98	0.078 (1.98)	0.082 (2.08)	*	0.123 (3.12)

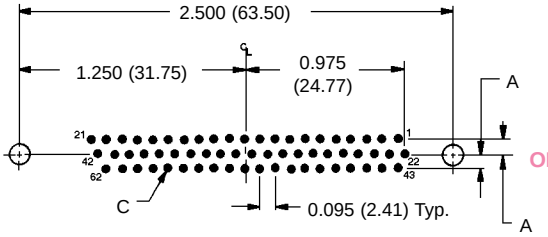
Suggest 0.123 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.
Suggest 0.035 (0.89) Ø hole for contact termination positions.
For Code 9 Solid Press–Fit Contacts:
***Suggest 0.0355 ±0.0010 (0.90) Ø drill with 0.0006 (15µ) minimum tin or tin/lead over 0.0010 (25µ) minimum copper plate. Final hole is 0.0315 +0.0010 -0.0020 (0.80) Ø.**
***For Code 98 "Omega" Compliant Press-Fit Contacts:**
Suggest 0.0453±0.0010 (1.150) Ø hole with 0.0005 (0.013) minimum tin or tin/lead over 0.001 (0.03) minimum copper plate. Final hole size is 0.0394+0.0035-0.0024 (1.000+0.090-0.060) Ø

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

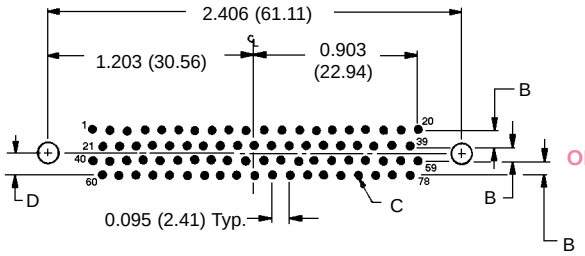
ODD62 MALE



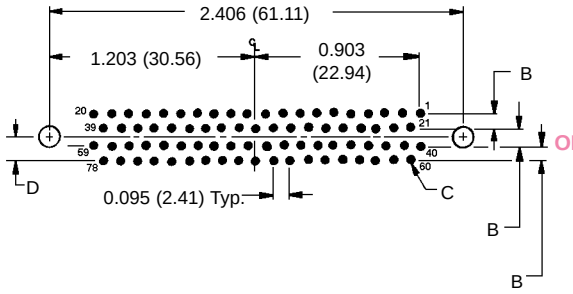
ODD62 FEMALE



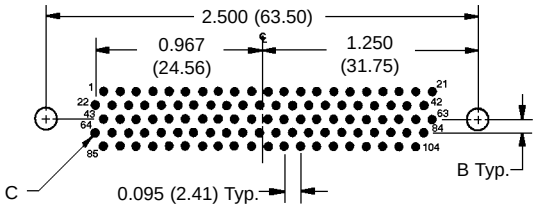
ODD78 MALE



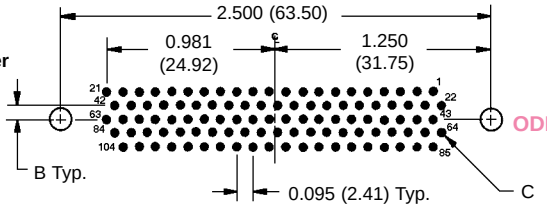
ODD78 FEMALE



ODD104 MALE



ODD104 FEMALE



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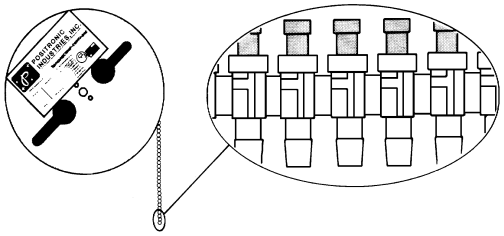
REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

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.



Enlarged section of plastic contact carrier.

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
	ODD	62	F	5	R7	N	T6	S	

STEP 1 - Basic Series
ODD Series

STEP 2 - ODD Series Connector Variants
15, 26, 44, 62, 78, 104

STEP 3 - Connector Gender
M - Male
F - Female

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 Extension.
9 - Press-Fit, Solid.
98 - Press-Fit, Compliant.

*STEP 5 - Mounting Style
0 - Mounting Hole, 0.120 (3.05) Ø.
B3 - Bracket, Mounting, 90° Metal with Cross Bar.
B8 - Bracket, Mounting, 90° Plastic with Cross Bar.
F - Float Mounts, Universal.
P - Threaded Post, Brass, 0.225 (5.71) Length.
P2 - Threaded Post, Nylon, 0.225 (5.71) 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, 0.225 (5.71) 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, 0.225 (5.71) Length.
S7 - Swaged Spacer with Push-on Fastener for use with Ferrite Inductor, 4-40 Threads, 0.375 (9.53) Length.

*STEP 6 - Hoods and Push-On Fasteners
0 - None.
J - Hood, Top Opening, Plastic.
L - Hood, Side Opening, Plastic.
Y - 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.
Z - 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.
G - Hood, EMI/RFI, Metal. Available in size 15, 26, 44, 62, and 78 only.
W - Hood, Top or Side Opening, Plastic. Available in size 15, 26, and 44 only.
N - Push-on Fastener, for 90° Mounting.
**F - Ferrite Inductor.
**Q - Ferrite Inductor with Push-on Fastener, for 90° Mounting Brackets.

*STEP 7 - Locking and Polarizing Systems
0 - None.
V3 - Lock Tab, connector front panel mounted.
V5 - Lock Tab, connector rear panel mounted.
VL - Lock Lever, used with Hoods Only.
T - Fixed Female Jackscrews.
T2 - Fixed Female Jackscrews.
T6 - Fixed Male and Female Polarized Jackscrews.
E - Rotating Male Jackscrews.
E2 - Rotating Male Screw Locks.
E6 - Rotating Male and Female Polarized Jackscrews.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
S - Stainless Steel.
X - Tin Plated.
Z - Tin Plated and Dimpled.

STEP 9 - Special Options
Consult Sales Department.

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

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

For ODD crimping information, see DD Series, p. 26 & 27.

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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 (0.5mm^2) through 32 AWG (0.03mm^2). 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 AWG/(mm²)	AXIAL LOAD POUNDS/(N)
22 (0.3)	12 (53)
24 (0.25)	8 (36)
26 (0.12)	5 (22)
28 (0.08)	3 (13)
30 (0.05)	1.5 (4.4)

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

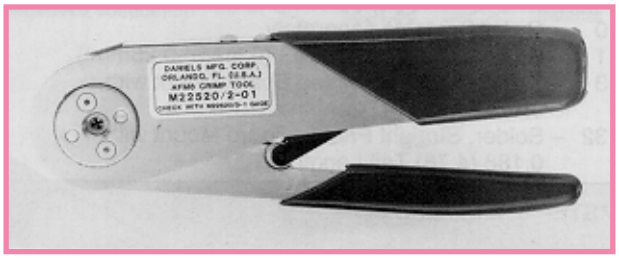
Values may change depending upon what type of wire is used.

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 (0.5mm^2) through 32 AWG (0.03mm^2).

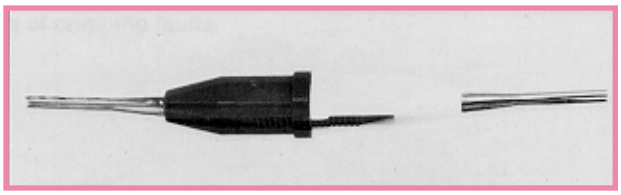
To crimp female contacts, order contact positioner 9502-3. To crimp male contacts, order contact positioner 9502-4. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping ODD Series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

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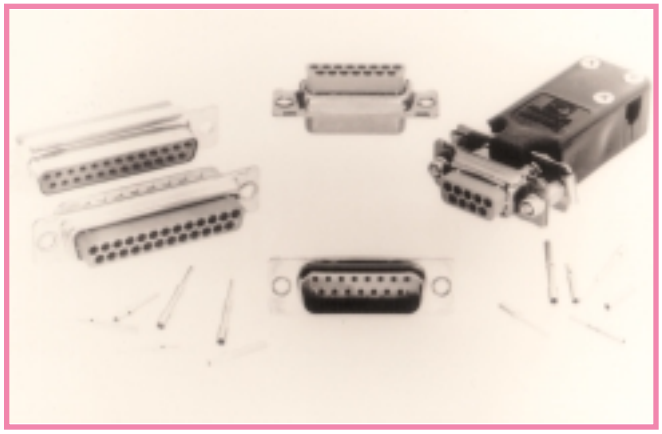
ORD Series

PROFESSIONAL QUALITY CRIMP, REMOVABLE CONTACT, SUBMINIATURE-D CONNECTORS
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Removable Crimp

Industrial Quality Connectors

IEC Publication 807-3
Performance Level Two



ORD Series connectors are low cost, industrial/professional quality D–Subminiature connectors with closed barrel crimp removable contacts. ORD Series connectors are recommended for use in sheltered, mildly corrosive environments having a wide range of temperatures with normal ventilation where high performance is required.

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:

Insulators:	Glass filled DAP per ASTM–D–5948, SDG–F, UL 94V-0, green color.
Contacts:	Male contacts – precision machined brass alloy. Female contacts – precision machined high tensile copper alloy with rugged “Robi–D Open Entry” design.
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. Brass 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 nickel 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:	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 In Insulator:	9 lbs. (40 N).
Contact Terminations:	Closed barrel crimp, wire sizes 18 AWG (1.0mm^2) through 24 AWG (0.25mm^2).
Shells:	Tin–plated male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells and polarized jackscrews.
Locking Systems:	Jackscrews and vibration locking systems.
Mechanical Operations:	500 operations minimum per IEC 512-5 for “ ‘Robi–D’ Open Entry” design.

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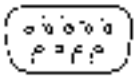
PROFESSIONAL QUALITY CRIMP, REMOVABLE CONTACT, SUBMINIATURE-D CONNECTORS

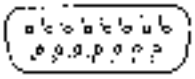
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

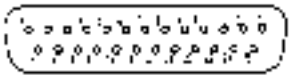
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



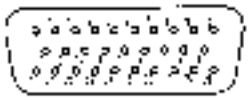
ORD 9



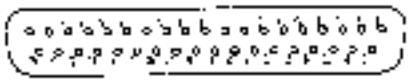
ORD 15



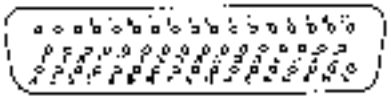
ORD 25



ORD 29

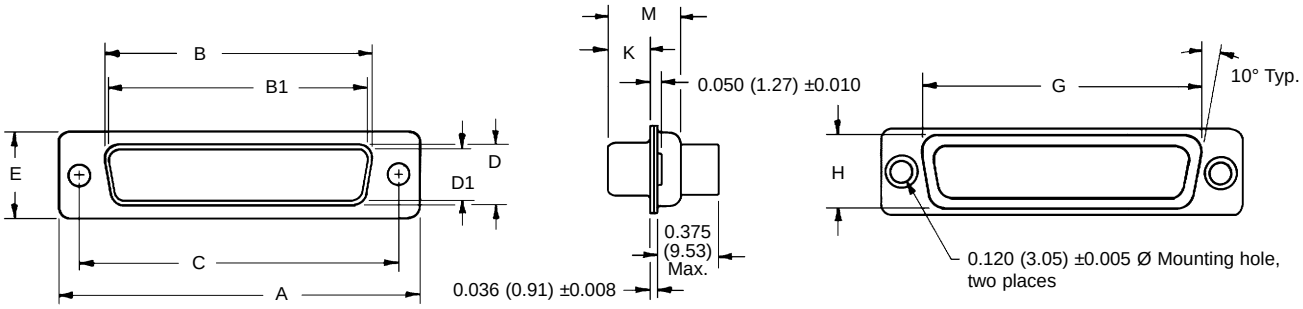


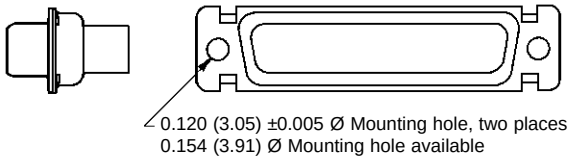
ORD 37



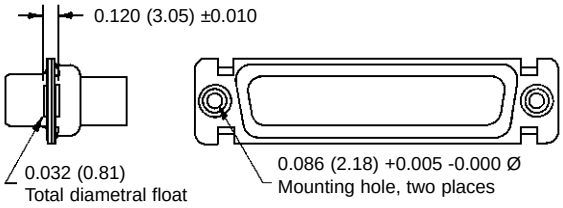
ORD 50

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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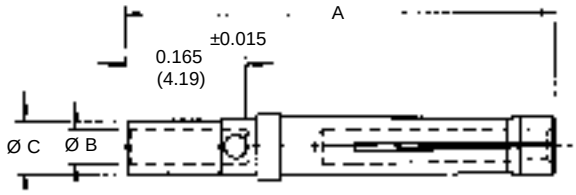
CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT

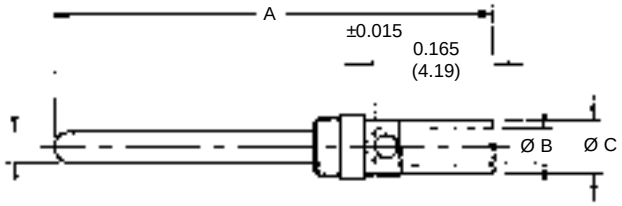
RUGGED 'ROBI–D' OPEN ENTRY DESIGN



Material – Phosphor bronze.

Plating – Gold flash over nickel.

MALE CONTACT



±0.001
Ø 0.040 (1.02)

Material – Brass.

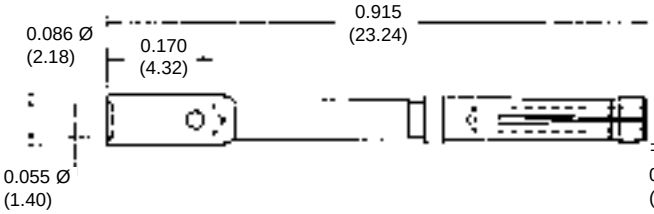
Plating – Gold flash over nickel.

Closed entry contacts are available. See page 43 of the RD Series in this catalog for additional information.

PART NUMBER	WIRE SIZE AWG/(mm²)	A ±0.015	B Ø ±0.005	C Ø ±0.005
FC6120D	20 / 22 / 24 (0.5/0.3/0.25)	0.538 (13.67)	0.044 (1.12)	0.066 (1.68)
MC6020D	20 / 22 / 24 (0.5/0.3/0.25)	0.538 (13.67)	0.044 (1.12)	0.066 (1.68)

FEMALE CONTACT

RUGGED 'ROBI–D' OPEN ENTRY DESIGN



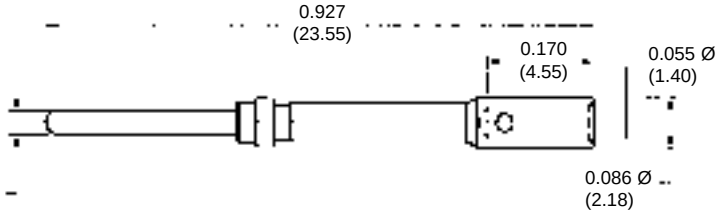
±0.001
0.040 Ø
(1.02)

FC6118D

Material – Phosphor bronze.

Plating – Gold flash over nickel.

MALE CONTACT



MC6018D

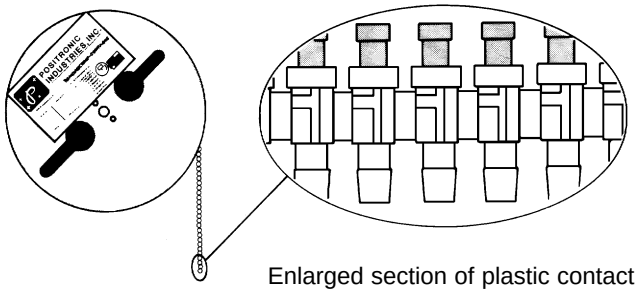
Material – Brass.

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.



Enlarged section of plastic contact carriers

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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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
	ORD	15	M	1	0	H	0	0		

STEP 1 - Basic Series
ORD Series

STEP 2 - ORD Series Connector Variants
9, 15, 25, 29, 37, 50

STEP 3 - Connector Gender
M - Male
F - Female

STEP 4 - Type of Contacts
0 - Ordered Without Contacts.
1 - Crimp, 20 AWG–24 AWG (0.5mm²–0.25mm²).

***STEP 5 - Mounting Style**
0 - Mounting Hole, 0.120 (3.05) Ø.
F - Float Mounts, Universal.
S2 - Swaged Spacer, 4-40 Threads, 0.125 (3.18) Length.
S5 - Swaged Locknut, 4-40 Threads.

***STEP 6 - Hoods**
0 - None.
J - Hood, Top Opening, Plastic.
L - 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 50 only.
W - Hood, Top or Side Opening, Plastic. Available in size 9, 15, and 25 only.

***STEP 7 - Locking and Polarizing Systems**
0 - None.
V3 - Lock Tab, connector front panel mounted.
V5 - Lock Tab, connector rear panel mounted.
VL - Lock Lever, used with Hoods Only.
T - Fixed Female Jackscrews.
T2 - Fixed Female Jackscrews.
T6 - Fixed Male and Female Polarized Jackscrews.
E - Rotating Male Jackscrews.
E2 - Rotating Male Screw Locks.
E6 - Rotating Male and Female Polarized Jackscrews.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
S - Stainless Steel.
X - Tin Plated.
Z - Tin Plated and Dimpled.
C - Cadmium plated with Dichromate Seal.

STEP 9 - Special Options
Consult Sales Department.

*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. 46.

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Rhapso-D Series

MILITARY QUALITY, CRIMP REMOVABLE CONTACT, SUBMINIATURE-D CONNECTORS
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Crimp Removable

Military/Industrial Quality Connectors

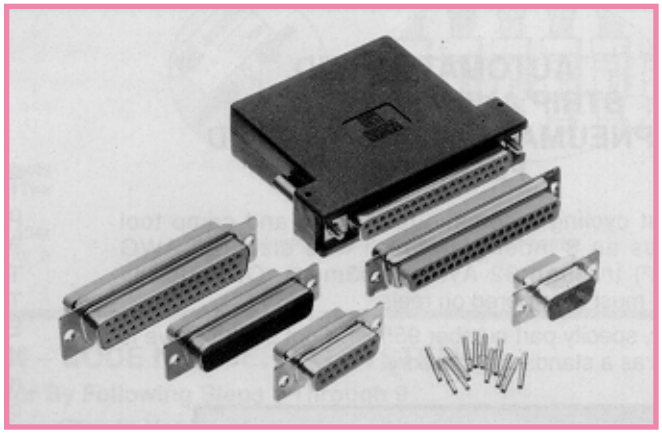
IEC Publication 807-3 Performance Level One

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:

Insulator:	Glass filled DAP per ASTM-D-5948, SDG-F, UL 94V-0, green color.
Contacts:	Male contacts – precision machined brass alloy. Female contacts – precision machined high tensile copper alloy with stainless steel shroud or open entry Robi-D design.
Contact Plating:	Military performance – 0.000050 inch (1.25 microns) gold over copper plate. Industrial performance – gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc and cadmium plate with dichromate seal, stainless steel, passivated.
Mounting Spacers:	Brass, zinc plate with dichromate seal.
Jackscrew Systems:	Steel with zinc plate and dichromate seal, or clear zinc plate.
Vibration Lock Systems:	Slide lock and lock tabs, steel with nickel plate.
Hoods:	Thermoplastic UL 94V-0. Composite, 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 In Insulator:	9 lbs. (40 N).
Contact Terminations:	Closed barrel crimp, wire sizes 18 AWG (1.0mm^2) through 30 AWG (0.05mm^2).
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells and polarized jackscrews.
Locking Systems:	Jackscrews and vibration locking systems.
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.

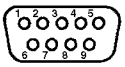
Downloaded from Arrow.com.

MILITARY QUALITY, CRIMP REMOVABLE CONTACT, SUBMINIATURE-D CONNECTORS

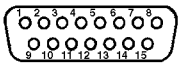
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

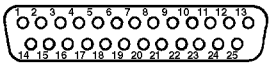
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



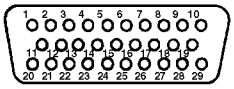
RD 9



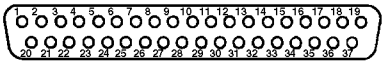
RD 15



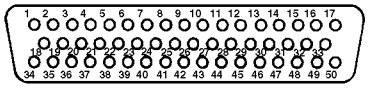
RD 25



RD 29

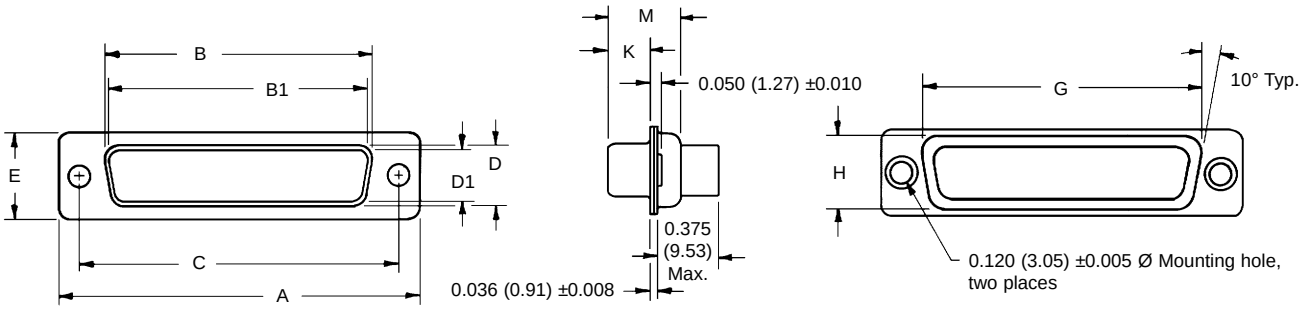


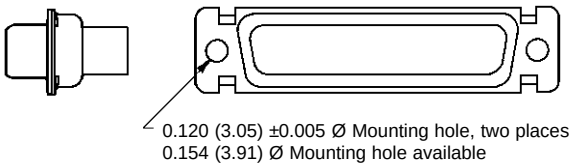
RD 37



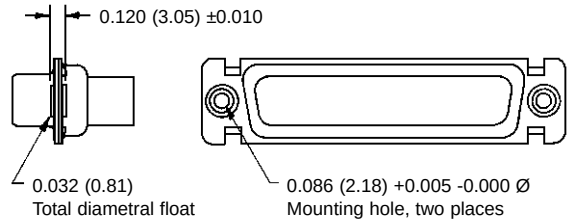
RD 50

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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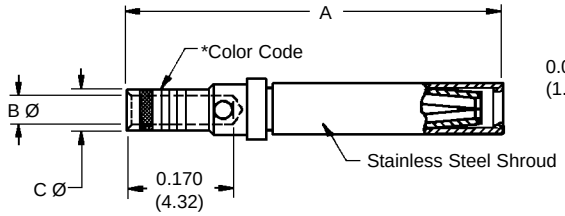
CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT (“CLOSED ENTRY” DESIGN)



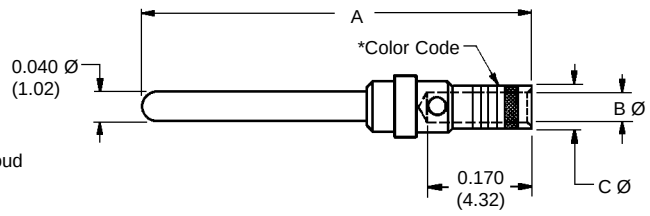
Material - Leaded nickel copper.

Plating - Gold flash over nickel or 0.000050 inch (1.25µ) gold over copper for military specification contacts.

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

PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
FC6020D	20 / 22 / 24 (0.5/0.3/0.25)	0.538 (13.67)	0.044 (1.12)	0.066 (1.68)
FC6026D	26 / 28 / 30 (0.12/0.08/0.05)	0.538 (13.67)	0.027 (0.69)	0.066 (1.68)
*M39029/63-368	20 / 22 / 24 (0.5/0.3/0.25)	0.538 (13.67)	0.044 (1.12)	0.066 (1.68)

MALE CONTACT



Material - Brass.

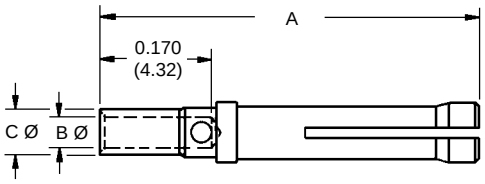
Plating - Gold flash over nickel or 0.000050 inch (1.25µ) gold over copper for military specification contacts.

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

PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
MC6020D	20 / 22 / 24 (0.5/0.3/0.25)	0.550 (13.97)	0.044 (1.12)	0.066 (1.68)
MC6026D	26 / 28 / 30 (0.12/0.08/0.05)	0.550 (13.97)	0.027 (0.69)	0.066 (1.68)
*M39029/64-369	20 / 22 / 24 (0.5/0.3/0.25)	0.550 (13.97)	0.044 (1.12)	0.066 (1.68)

Crimp contacts may be supplied kitted with connector or ordered separately.
See page 46 for crimp tool information.

FEMALE CONTACT (“”Robi-D Open Entry”” DESIGN)

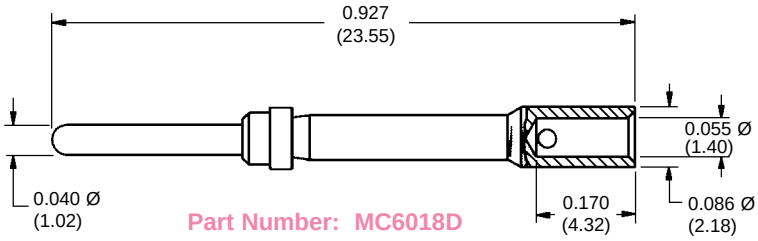


Material - Phosphor bronze.

Plating - Gold flash over nickel.

PART NUMBER	WIRE SIZE AWG/(mm²)	A	B Ø	C Ø
FC6120D	20 / 22 / 24 (0.5/0.3/0.25)	0.538 (13.67)	0.044 (1.12)	0.066 (1.68)

MALE CONTACT
18 AWG (1.0mm²) max.

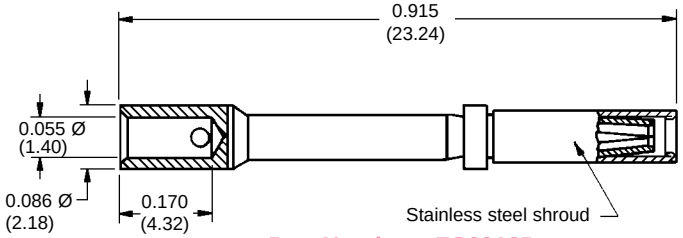


Part Number: MC6018D

Material - Brass.

Plating - Gold flash over nickel.

FEMALE CONTACT (“CLOSED ENTRY” DESIGN)
18 AWG (1.0mm²) max.



Part Number: FC6018D

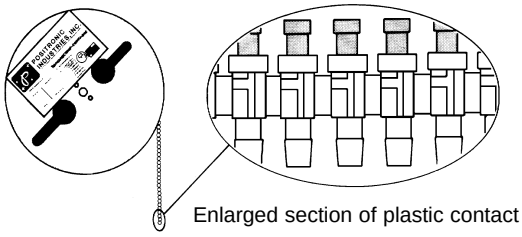
Material - Phosphor bronze.

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 FC6026DR for a female contact.



Enlarged section of plastic contact carriers

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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

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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
	RD	15	M	12	0	H	0	0		

STEP 1 - Basic Series
RD Series

STEP 2 - RD Series Connector Variants
9, 15, 25, 29, 37, 50

STEP 3 - Connector Gender
M - Male
F - Female

STEP 4 - Type of Contacts
0 - Ordered Without Contacts.
1 - Crimp, 20 AWG–24 AWG ($0.5mm^2$–$0.25mm^2$).
12 - Crimp, 26 AWG–30 AWG ($0.12mm^2$–$0.08mm^2$).
14 - Crimp, 20 AWG–24 AWG ($0.5mm^2$–$0.25mm^2$) "Robi-D Open Entry" female contact.

***STEP 5 - Mounting Style**
0 - Mounting Hole, 0.120 (3.05) Ø.
F - Float Mounts, Universal.
S2 - Swaged Spacer, 4-40 Threads, 0.125 (3.18) Length.
S5 - Swaged Locknut, 4-40 Threads.

***STEP 6 - Hoods**
0 - None.
J - Hood, Top Opening, Plastic.
L - 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.

***STEP 7 - Locking and Polarizing Systems**
0 - None.
V3 - Lock Tab, connector front panel mounted.
V5 - Lock Tab, connector rear panel mounted.
VL - Lock Lever, used with Hoods Only.
T - Fixed Female Jackscrews.
T2 - Fixed Female Jackscrews.
T6 - Fixed Male and Female Polarized Jackscrews.
E - Rotating Male Jackscrews.
E2 - Rotating Male Screw Locks.
E6 - Rotating Male and Female Polarized Jackscrews.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
S - Stainless Steel.
X - Tin Plated.
Z - Tin Plated and Dimpled.
C - Cadmium plated with Dichromate Seal.

STEP 9 - Special Options
Consult Sales Department.

*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.

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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 (0.5mm^2) through 32 AWG (0.03mm^2). 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 AWG/(mm^2)	AXIAL LOAD POUNDS/(N)
18 (1.0)	28 (125)
20 (0.5)	20 (89)
22 (0.3)	12 (53)
24 (0.25)	8 (36)
26 (0.12)	5 (22)
28 (0.08)	3 (13)
30 (0.05)	1.5 (6.7)

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

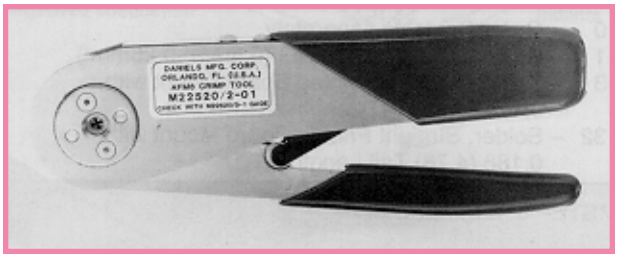
Values may change depending upon what type of wire is used.

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 (1.0mm^2) through 32 AWG (0.03mm^2).

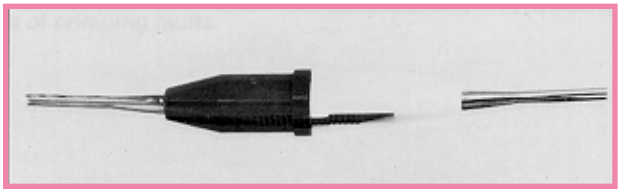
To crimp wire size 18 AWG (1.0mm^2), order contact positioner 9502-11. To crimp wire size 20 AWG (0.5mm^2) through 30 AWG (0.05mm^2), order contact positioner 9502-5. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 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

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Harmo-D Series

MILITARY QUALITY, FIXED CONTACT, SUBMINIATURE-D CONNECTORS
FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Fixed

Military/Industrial Quality Connectors

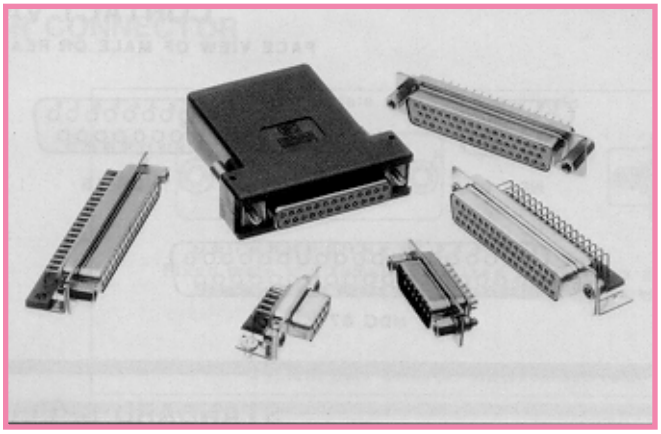
IEC Publication 807-2 Performance Level One

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 brass alloy. Female contacts – precision machined high tensile phosphor bronze with stainless steel shroud.
Contact Plating:	Military performance – 0.000050 inch (1.25 microns) gold over copper plate. Industrial performance – gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc and cadmium plate with dichromate seal, stainless steel, passivated.
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 plate.
Hoods:	Thermoplastic UL 94V-0. Composite, 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:	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 (0.5mm^2) 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.
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 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.

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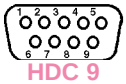
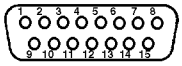
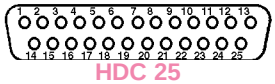
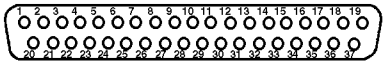
CONTACT VARIANTS

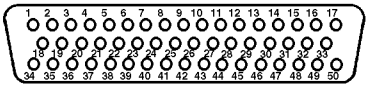
FACE VIEW OF MALE OR REAR VIEW OF FEMALE


HDC 9

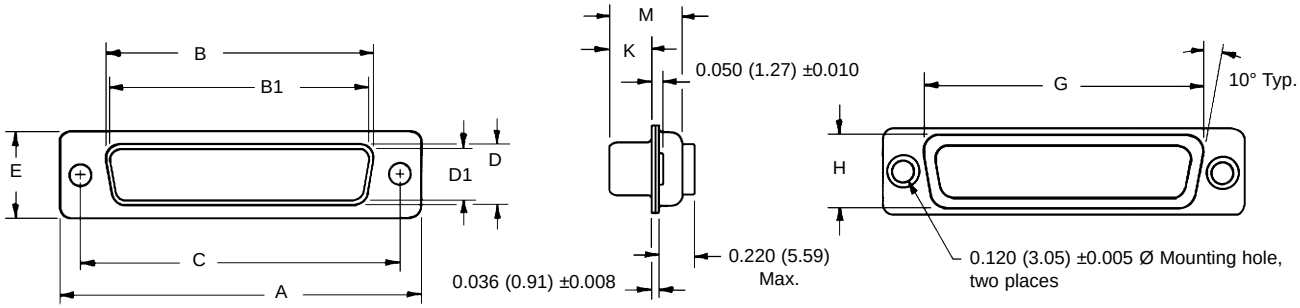

HDC 15

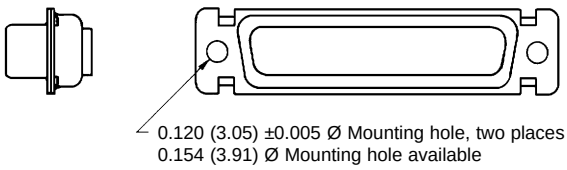

HDC 25


HDC 37

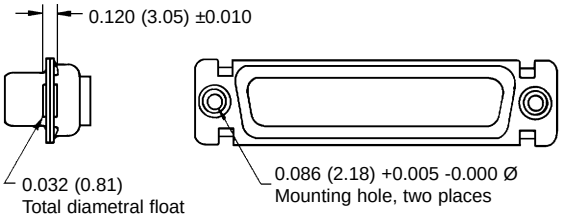

HDC 50

STANDARD SHELL ASSEMBLY





OPTIONAL SHELL ASSEMBLY



OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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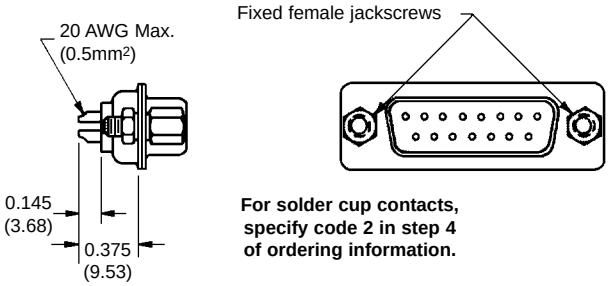
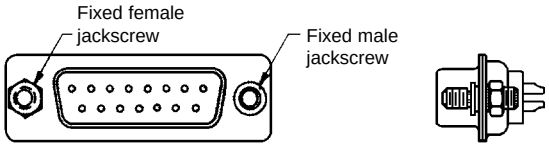
SOLDER CUP CONNECTOR



For solder cup contacts, specify code 2 in step 4 of ordering information.

Typical Part Number: HDC15M200T2Z



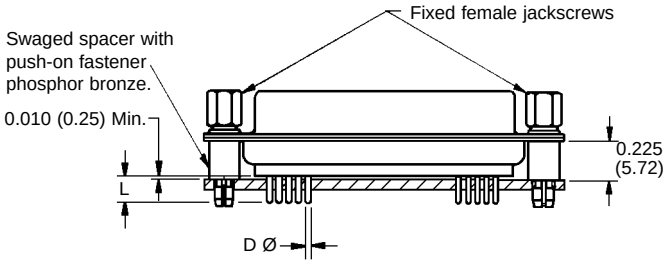
Fixed male and female polarized jackscrews available. Specify code T6 in step 7 of ordering information.

Typical Part Number: HDC15M200T6Z

STRAIGHT PRINTED BOARD MOUNT CONNECTOR

CODE NUMBER	L	D Ø
3	0.170 (4.32)	0.028 (0.71)
32	0.375 (9.53)	0.028 (0.71)
36	0.236 (6.00)	0.024 (0.61)

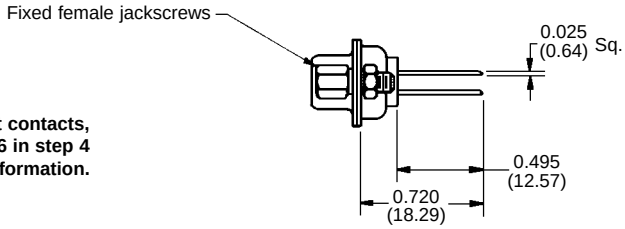
For straight printed board mount contacts, specify code no. in step 4 of ordering information.



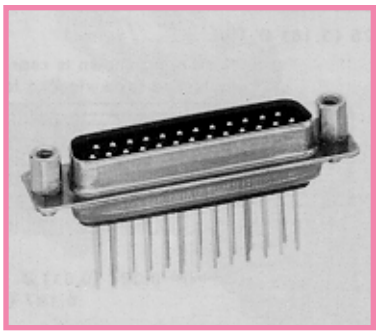
Typical Part Number: HDC25F3S60T0

WRAP POST CONNECTOR

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



Typical part number: HDC15F600T0



HDC25M6S50T0

**DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.**

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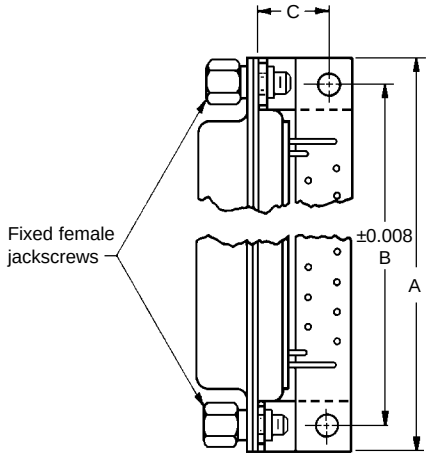
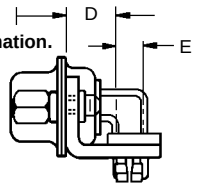
90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.283 (7.19) CONTACT EXTENSION

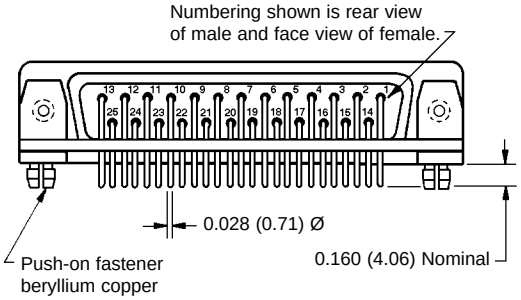


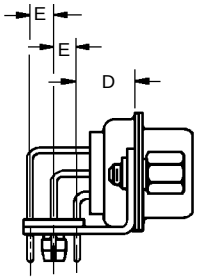
HDC005B3000 0.283 (7.19) CONTACT EXTENSION					
PART NUMBER	A	B	C	D	E
HDC905B3000	1.204 (30.58)	0.984 (24.99)	0.339 (8.61)	0.283 (7.19)	0.112 (2.84)
HDC1505B3000	1.532 (38.91)	1.312 (33.32)	0.339 (8.61)	0.283 (7.19)	0.112 (2.84)
HDC2505B3000	2.072 (52.63)	1.852 (47.04)	0.339 (8.61)	0.283 (7.19)	0.112 (2.84)
HDC3705B3000	2.720 (69.09)	2.500 (63.50)	0.339 (8.61)	0.283 (7.19)	0.112 (2.84)
HDC5005B3000	2.626 (66.70)	2.406 (61.11)	0.395 (10.03)	0.283 (7.19)	0.112 (2.84)

Specify code 5 in step 4 of ordering information.



Typical Part Number:
HDC25M5R7NT2X

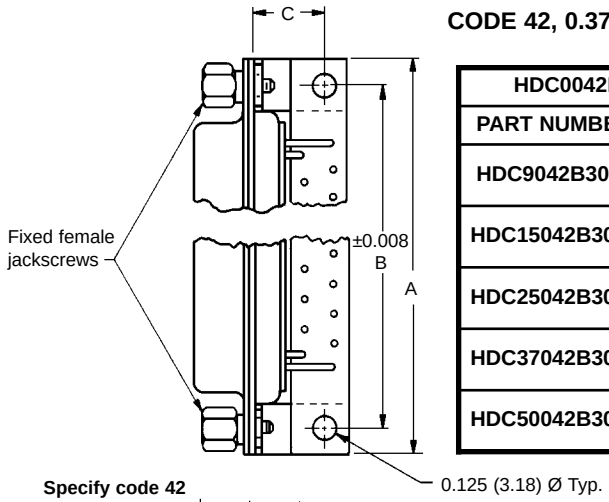




Typical Part Number:
HDC50F5R7NTX

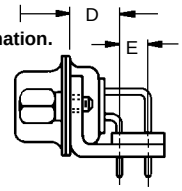
90° PRINTED BOARD MOUNT CONNECTOR

CODE 42, 0.370 (9.40) CONTACT EXTENSION

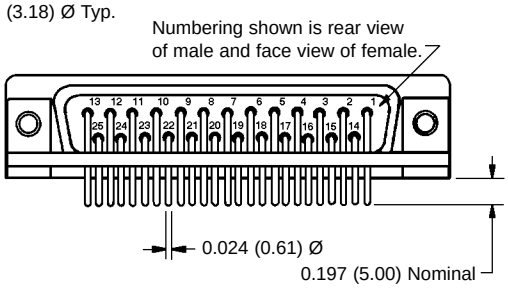


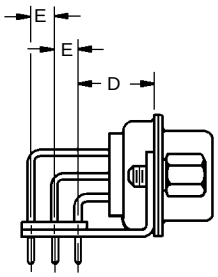
HDC0042B3000 0.370 (9.40) CONTACT EXTENSION					
PART NUMBER	A	B	C	D	E
HDC9042B3000	1.204 (30.58)	0.984 (24.99)	0.420 (10.67)	0.370 (9.40)	0.100 (2.54)
HDC15042B3000	1.532 (38.91)	1.312 (33.32)	0.420 (10.67)	0.370 (9.40)	0.100 (2.54)
HDC25042B3000	2.072 (52.63)	1.852 (47.04)	0.420 (10.67)	0.370 (9.40)	0.100 (2.54)
HDC37042B3000	2.720 (69.09)	2.500 (63.50)	0.420 (10.67)	0.370 (9.40)	0.100 (2.54)
HDC50042B3000	2.626 (66.70)	2.406 (61.11)	0.470 (11.94)	0.370 (9.40)	0.100 (2.54)

Specify code 42 in step 4 of ordering information.



Typical Part Number:
HDC25M42B30T2X





Typical Part Number:
HDC50M42B30T2X

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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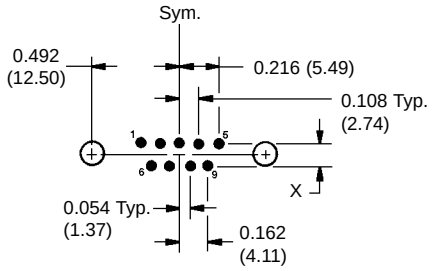
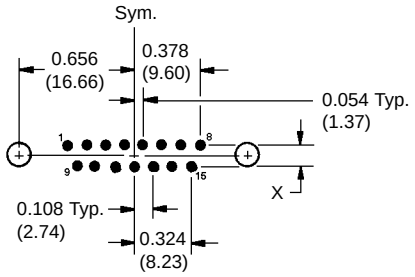
90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

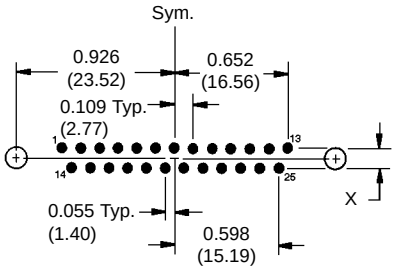
Hole identification shown for male connector, use mirror image for female connector.
Mount connector with mating face positioned to follow direction of arrows.



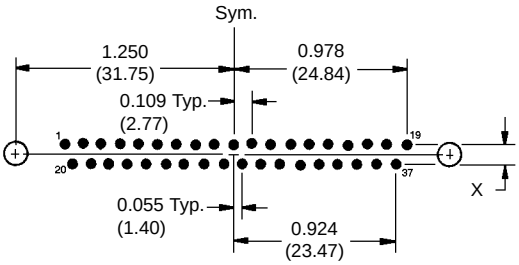
HDC 9



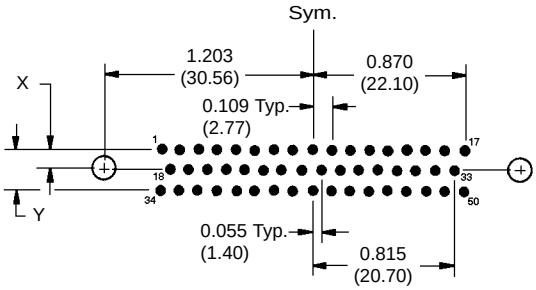
HDC 15



HDC 25



HDC 37

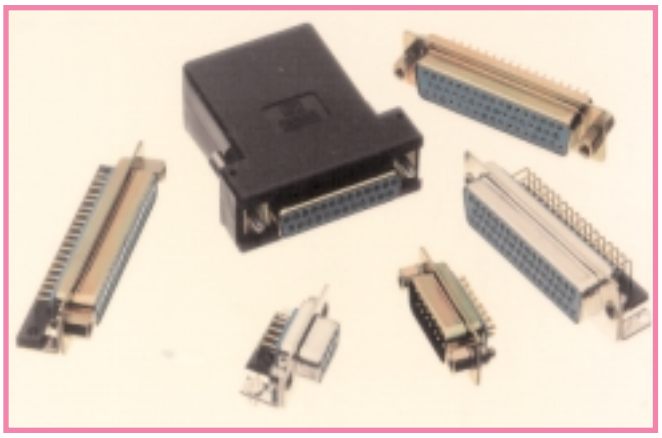


HDC 50

CODE NUMBER	X	Y
3	0.112 (2.84)	0.224 (5.69)
5	0.112 (2.84)	0.224 (5.69)
32	0.112 (2.84)	0.224 (5.69)
36	0.112 (2.84)	0.224 (5.69)
*42	0.100 (2.54)	0.200 (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 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.



DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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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
	HDC	37	F	5	B3	0	T	0		

STEP 1 - Basic Series
HDC Series

STEP 2 - HDC Series Connector Variants
9, 15, 25, 37, 50

STEP 3 - Connector Gender
M - Male
F - Female

STEP 4 - Type of Contacts
2 - Solder cup.
3 - Solder, Straight Printed Board Mount with 0.170 (4.32) Tail Length.
32 - Solder, Straight Printed Board Mount with 0.375 (9.52) Tail Length.
36 - Solder, Straight Printed Board Mount with 0.236 (5.99) Tail Length.
42 - Solder, Metric System 90° Printed Board Mount with 0.370 (9.40) Contact Extension.
5 - Solder, 90° Printed Board Mount with 0.283 (7.19) Contact Extension.
6 - Wrap Post.

***STEP 5 - Mounting Style**
0 - Mounting Hole, 0.120 (3.05) Ø.
B3 - Bracket, Mounting, 90° Metal with Cross Bar.
B8 - Bracket, Mounting, 90° Plastic with Cross Bar.
F - Float Mounts, Universal.
P - Threaded Post, Brass, 0.225 (5.71) Length.
P2 - Threaded Post, Nylon, 0.225 (5.71) 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, 0.225 (5.71) 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, 0.225 (5.71) Length.
S7 - Swaged Spacer with Push-on Fastener for use with Ferrite Inductor, 4-40 Threads, 0.375 (9.53) Length.

***STEP 6 - Hoods and Push-On Fasteners**
0 - None.
J - Hood, Top Opening, Plastic.
L - 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 and Extended Height, Composite and Plastic with Rotating Male Jackscrews.
H - Hood, Top Opening, Metal. Available in size 15, 25, 37 and 50 only.
G - Hood, EMI/RFI, Metal.
W - Hood, Top or Side Opening, Plastic. Available is size 9, 15, and 25 only.
N - Push-on Fastener, for 90° Mounting Brackets.
**F - Ferrite Inductor.

***STEP 7 - Locking and Polarizing Systems**
0 - None.
V3 - Lock Tab, connector front panel mounted.
V5 - Lock Tab, connector rear panel mounted.
VL - Lock Lever, used with Hoods Only.
T - Fixed Female Jackscrews.
T2 - Fixed Female Jackscrews.
T6 - Fixed Male and Female Polarized Jackscrews.
E - Rotating Male Jackscrews.
E2 - Rotating Male Screw Locks.
E6 - Rotating Male and Female Polarized Jackscrews.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
S - Stainless Steel.
X - Tin Plated.
Z - Tin Plated and Dimpled.
C - Cadmium plated with Dichromate Seal

STEP 9 - Special Options
Consult Sales Department.

*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.

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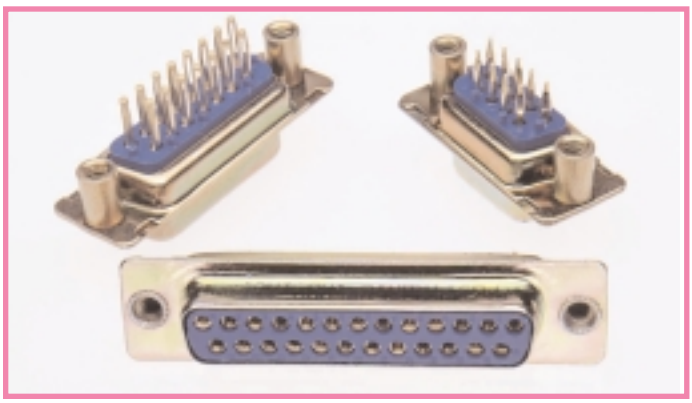
PCD Series

PROFESSIONAL QUALITY, STANDARD DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Fixed Machined Contact, "Bi-Spring" or "Omega" Compliant Termination Repairable Contact

Professional Quality
IEC 807-2 & IEC 352-5
MIL-STD 2166
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 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-through-hole 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 plated-through-hole, thereby accomplishing the repair of the connector without 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.
Contacts:	Male and female contacts are precision machined–high tensile phosphor bronze.
Contact Plating:	Professional performance - Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate or zinc plate with dichromate seal.
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:	Less than 0.001 ohms per IEC 512-2, Test 2a.
Change in Contact Resistance of Connection after Mechanical, Electrical or Climatic Conditioning:	Less than 0.001 ohms increase per IEC 512-2, 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.

MECHANICAL CHARACTERISTICS:

Repairable Contacts Solid Metal Construction:	Size 20 contact male – 0.040 inch (1.02mm) diameter: female contact – rugged open-entry design or closed entry design.
Contact Retention In Insulator:	5 lbs. (21 N) minimum.
Compliant Termination Bi-Spring Construction:	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.
Press-In Force of Contact into plated-through-hole of 0.125 inch (3.18mm) printed board:	2.5 lbs. (10.5 N).
Push-Out Force of Contact from plated-through-hole of 0.125 inch (3.18mm) printed board:	2 lbs. (8.4 N).
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:	4 lbs. (16.8 N).
Push-Out Force of Contact from plated-through-hole of 0.125 inch (3.18mm) printed board:	6 lbs. (25.2 N).
Vibration Test per MIL-STD 1344, Method 2005, Test Conditioning:	No electrical discontinuity of 1 µs or greater.
Connector Polarization:	Trapezoidal shaped shells and polarized jackscrews.
Locking System:	Jackscrews and vibration locking systems.
Mechanical Operations:	500 operations per IEC 512-5.

CLIMATIC CHARACTERISTICS:

Temperature Range:	-55°C to +125°C.

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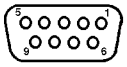
PCD Series

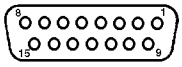
PROFESSIONAL QUALITY, STANDARD DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

PCD CONTACT VARIANTS

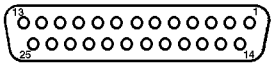
FACE VIEW OF FEMALE CONNECTOR OR REAR VIEW OF MALE CONNECTOR



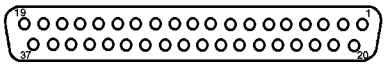
PCD 9



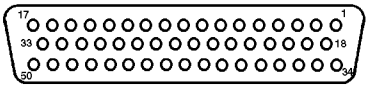
PCD 15



PCD 25

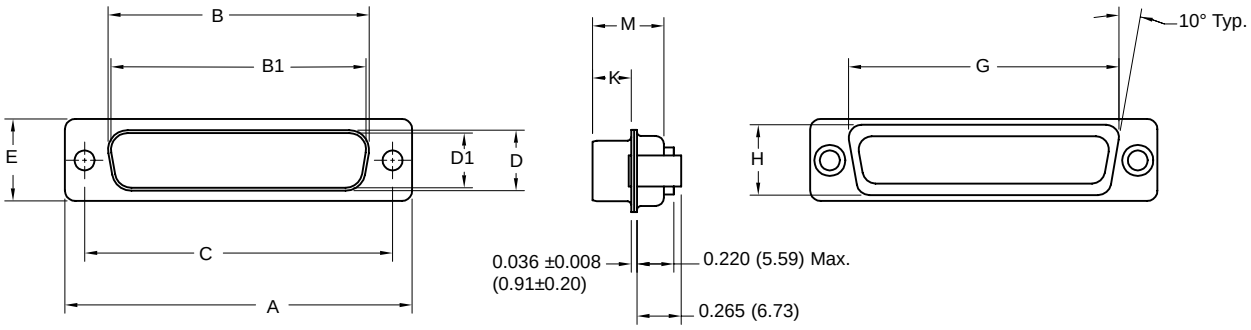


PCD 37



PCD 50

STANDARD SHELL ASSEMBLY



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

"Bi-Spring" Compliant Termination

"Omega" Compliant Termination

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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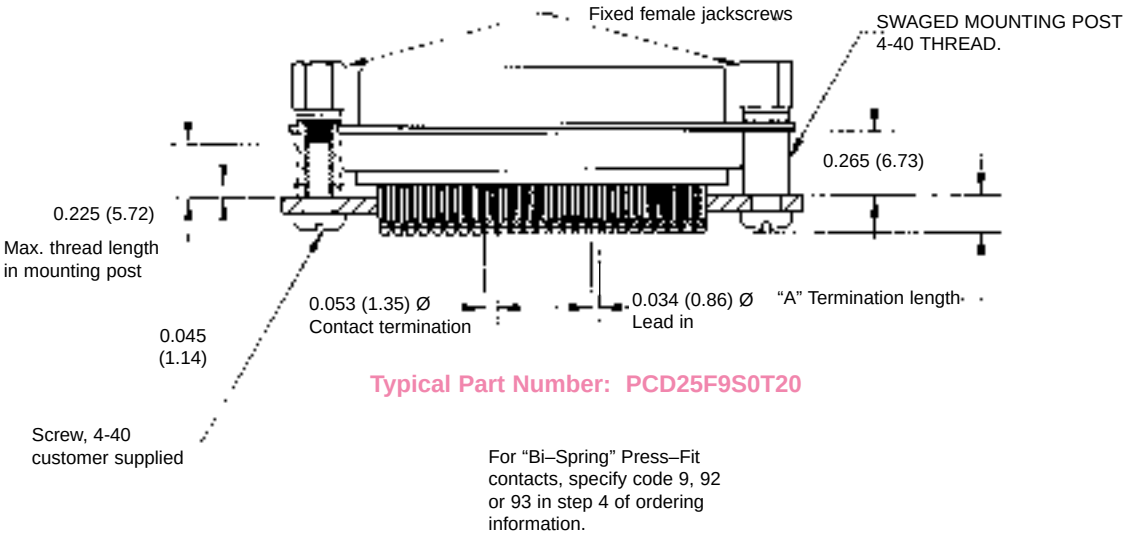
BI–SPRING COMPLIANT PRESS-FIT CONNECTOR



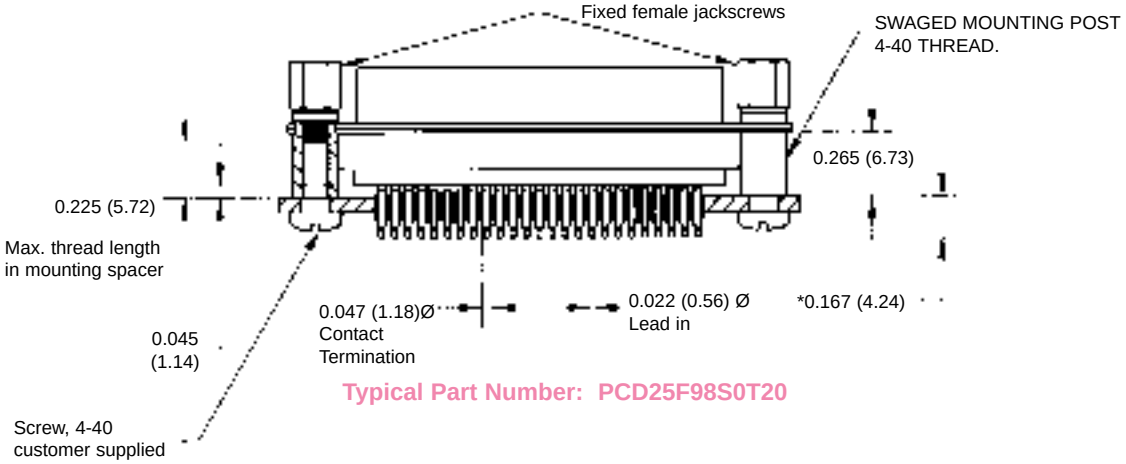
Typical Part Number: PCD25F9S0T20

Detail of Bi–Spring contacts

*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.

Detail of Omega contacts

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

*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.

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

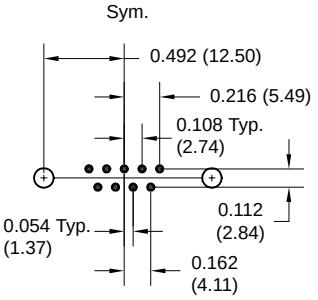
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

COMPLIANT PRESS-FIT CONNECTOR PRINTED BOARD CONTACT HOLE PATTERN

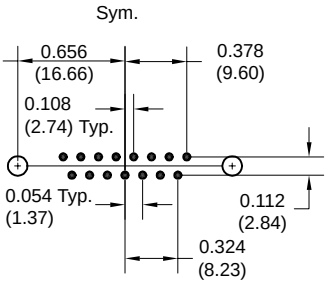
For Bi–Spring contact terminations: Suggest hole with 0.0001 (0.003) minimum solder over 0.001 (0.03) minimum copper plate. Final hole size is Ø 0.047±0.002 (1.19±0.05).

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).

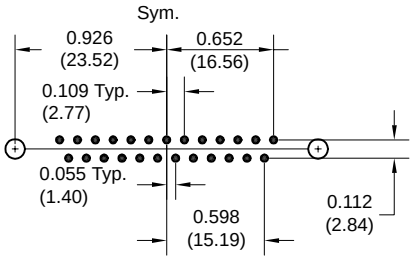
Suggest 0.120 (3.05)Ø hole for mounting connector



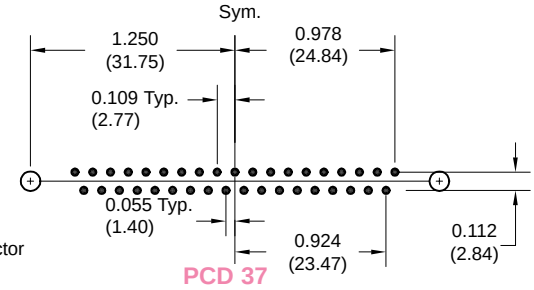
PCD 9



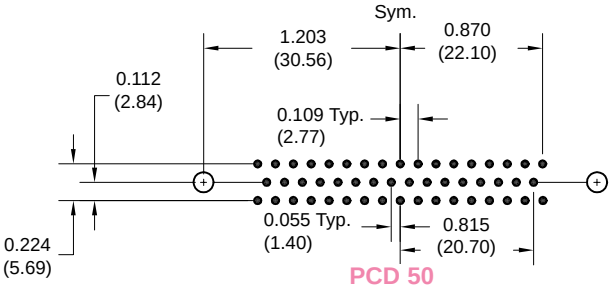
PCD 15



PCD 25

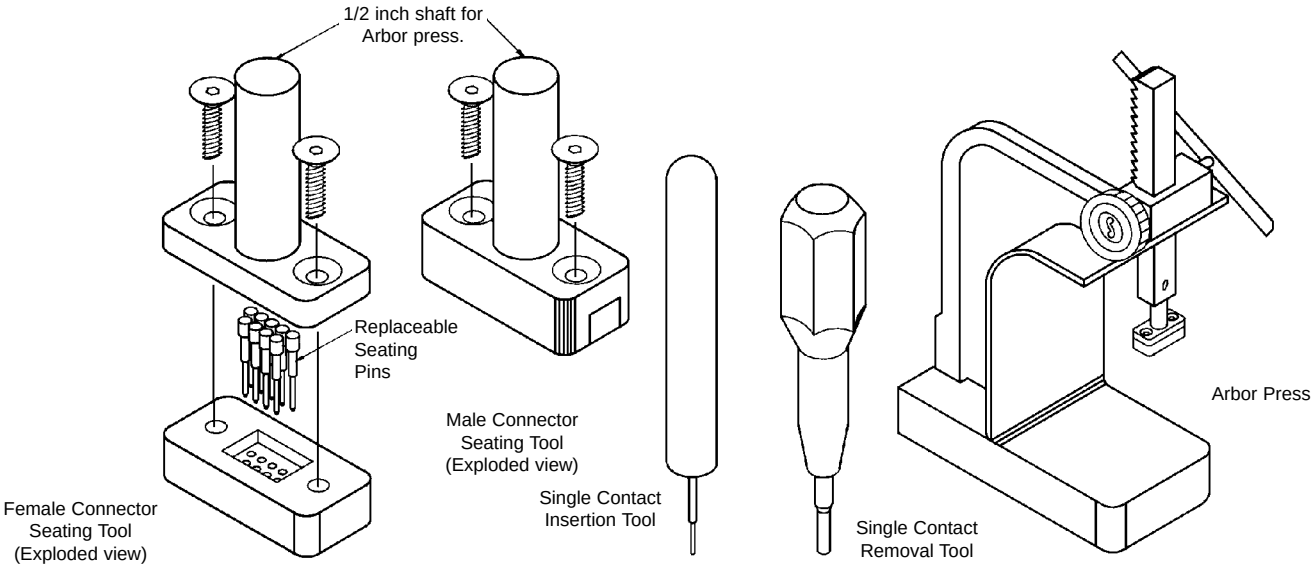


PCD 37



PCD 50

PCD SERIES PRESS-FIT CONNECTORS INSTALLATION TOOLS



Positronic recommended tools for PCD Series Connectors and Contacts

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

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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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
	PCD	25	M	9	S	0	T2	X		

STEP 1 - Basic Series
PCD Series

STEP 2 - PCD Series Connector Variants
9, 15, 25, 37, 50

STEP 3 - Connector Gender
M - Male
F - Female
FC - Female, Closed Entry

STEP 4 - Type of Contacts – Compliant Press-Fit
9 - Bi-Spring type compliant, termination length 0.153 (3.89).
92 - Bi-Spring type compliant, termination length 0.183 (4.65).
93 - Bi-Spring type compliant, termination length 0.218 (5.54).
98 - Omega type compliant.

STEP 5 - Mounting Style
S - Swaged Mounting Post 4-40 Threads 0.265 (6,73) Length.

STEP 6 - Hoods
0 - None

STEP 7 - Locking and Polarizing Systems
0 - None.
V3 - Lock Tab.
T6 - Fixed Male and Female Polarized Jackscrews.
T2 - Fixed Female Jackscrews, 4-40 Thread.
Note: These options must be ordered with connector and cannot be ordered separately.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
X - Tin Plated.
Z - Tin Plated and Dimpled.

STEP 9 - Special Options
Consult Sales Department.

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 (0.75 MICRONS) OVER NICKEL PLATE
-51 GOLD FLASH OVER NICKEL PLATE

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PCDD Series

PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS 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
MIL-STD 2166

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 press-in 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-through-hole 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:

Insulator:	Glass filled polyester per MIL-M-24519, U.L. 94V-0, blue color.
Contacts:	Male and female contacts are precision machined–high tensile phosphor bronze.
Contact Plating:	Professional performance - Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate or zinc plate with dichromate seal.
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:	Less than 0.001 ohms per IEC 512-2, Test 2a.
Change in Contact Resistance of Connection after Mechanical, Electrical or Climatic Conditioning:	Less than 0.001 ohms increase per IEC 512-2, 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:	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 In Insulator:	5 lbs. (21 N) minimum.
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:	4 lbs. (16.8 N).
Push-Out Force of Contact from plated-through-hole of 0.125 inch (3.18mm) printed board:	6 lbs. (25.2 N).
Vibration Test per MIL-STD 1344, Method 2005, Test Conditioning:	No electrical discontinuity of 1 µs or greater.
Connector Polarization:	Trapezoidal shaped shells and polarized jackscrews.
Locking System:	Jackscrews and vibration locking systems.
Mechanical Operations:	500 operations per IEC 512-5.

CLIMATIC CHARACTERISTICS:

Temperature Range:	-55°C to +125°C.

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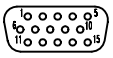
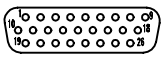
PCDD Series

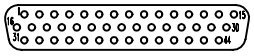
PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

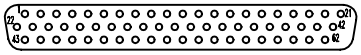
PCDD CONTACT VARIANTS

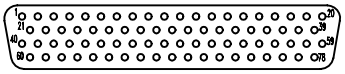
FACE VIEW OF MALE AND REAR VIEW OF FEMALE

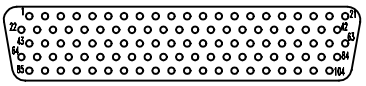

PCDD 15


PCDD 26

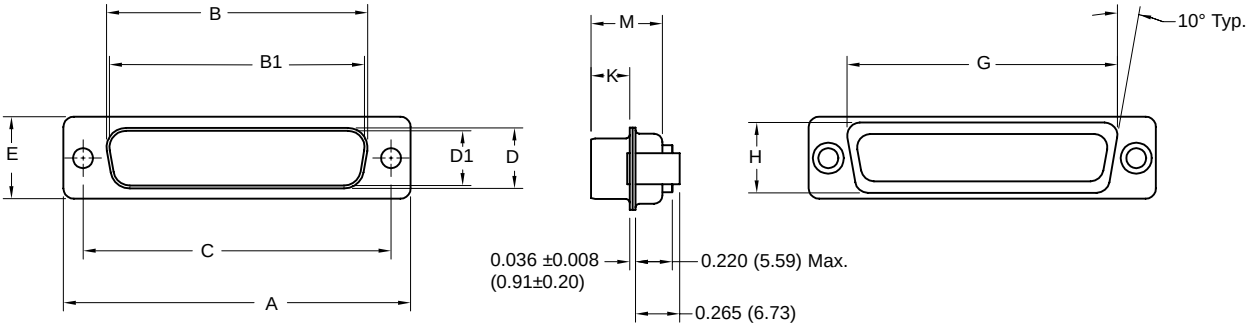

PCDD 44


PCDD 62


PCDD 78

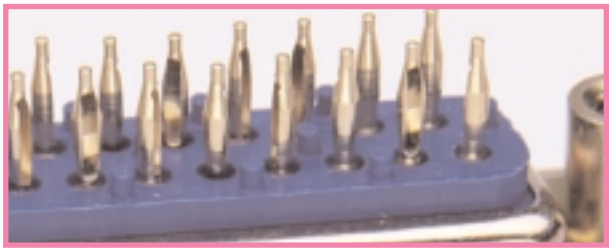

PCDD 104

STANDARD SHELL ASSEMBLY



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

"Omega" Compliant Termination



DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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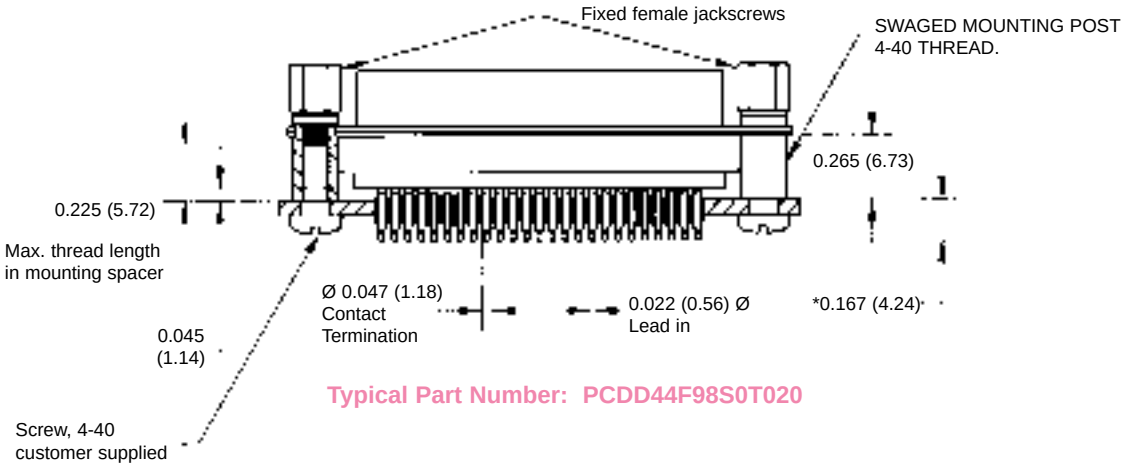
PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

OMEGA COMPLIANT PRESS-FIT CONNECTOR



Typical Part Number: PCDD44F98S0T020

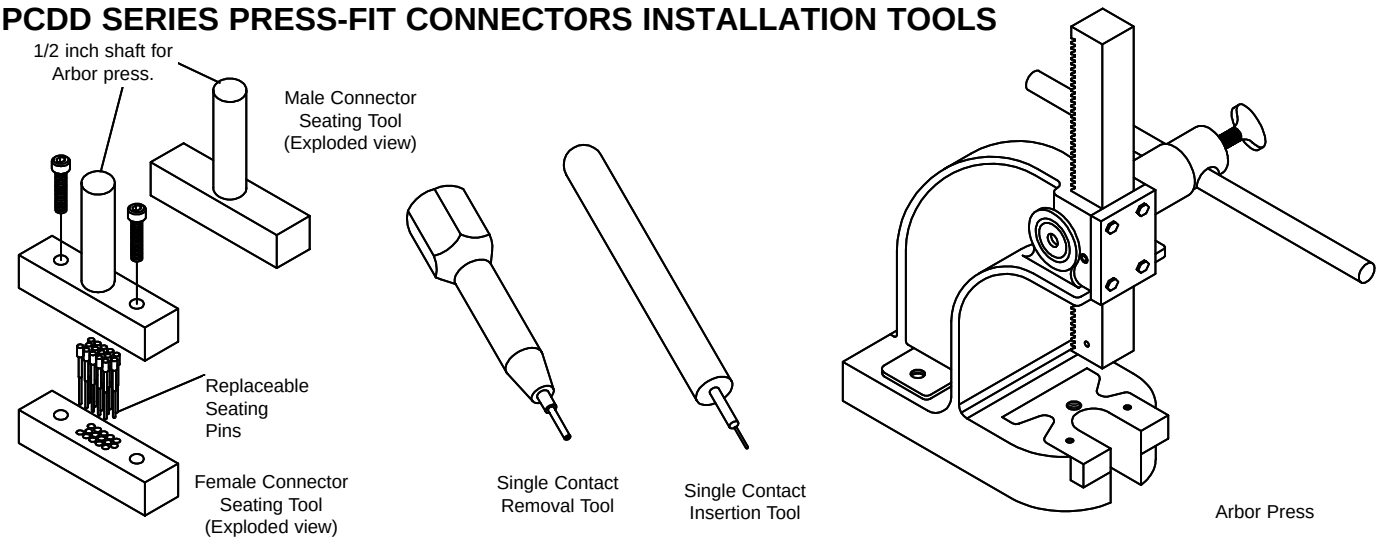
For "Omega" Press–Fit contacts, specify code 98 in step 4 of ordering information.

Detail of Omega contacts

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

*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

Series	Connector Seating		Single Contact Insertion		Single Contact Removal
	Male	Female	Male	Female	
PCDD 15	9512-1-0-41	9512-11-0-41	9512-103-0 FOR ALL SIZE	9512-104-0 FOR ALL SIZE	9512-105-0 FOR ALL SIZE
PCDD 26	9512-2-0-41	9512-12-0-41			
PCDD 44	9512-3-0-41	9512-13-0-41			
PCDD 62	9512-4-0-41	9512-14-0-41			
PCDD 78	9512-5-0-41	9512-15-0-41			
PCDD 104	9512-16-0-41	9512-17-0-41			
Arbor press for connector seating tools-9530-1-0			1 ton capacity		4 inch throat
Replacement pins for connector seating tools,			Female - 855-751-0-41		

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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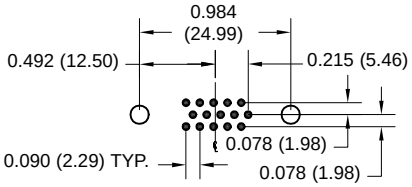
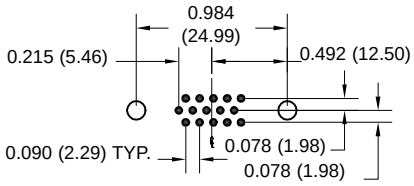
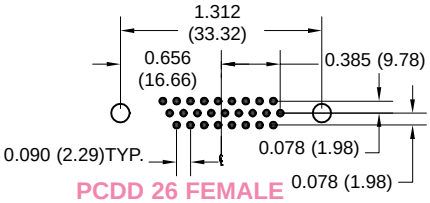
COMPLIANT PRESS-FIT CONNECTOR PRINTED BOARD CONTACT HOLE PATTERN



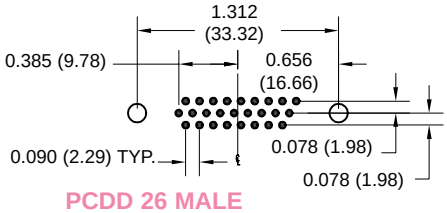
PCDD 15 FEMALE



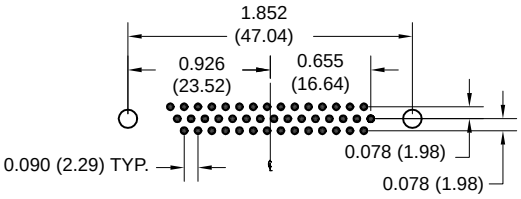
PCDD 15 MALE



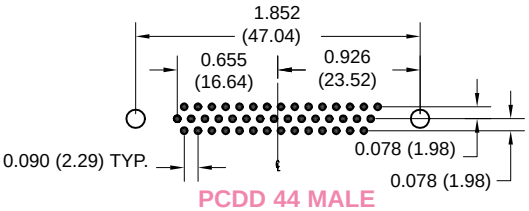
PCDD 26 FEMALE



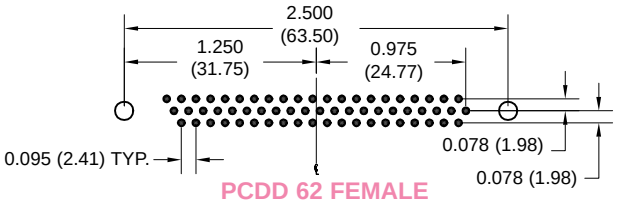
PCDD 26 MALE



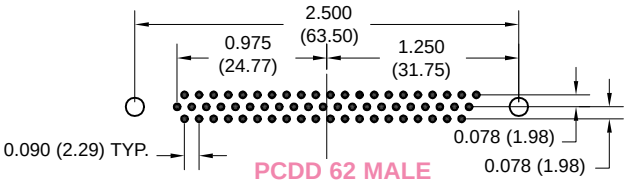
PCDD 44 FEMALE



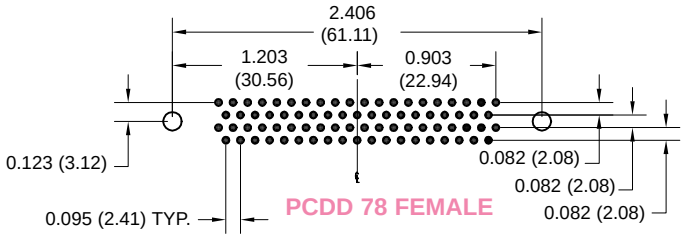
PCDD 44 MALE



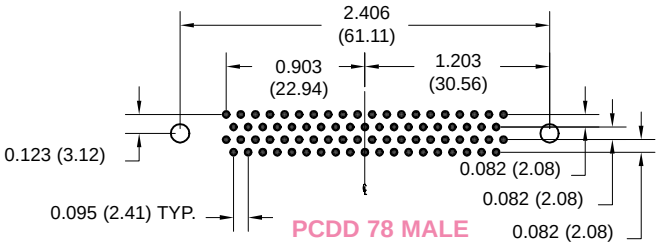
PCDD 62 FEMALE



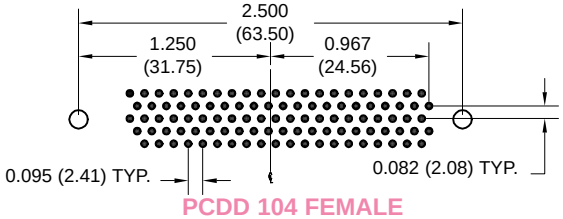
PCDD 62 MALE



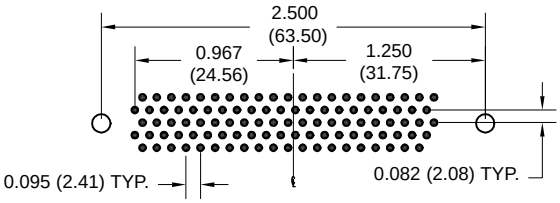
PCDD 78 FEMALE



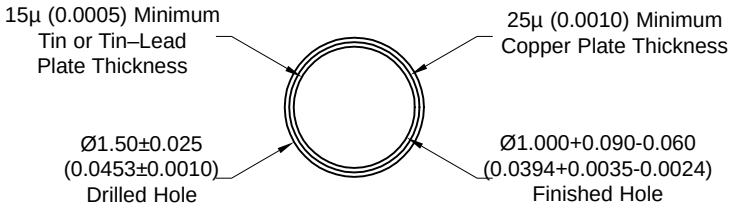
PCDD 78 MALE



PCDD 104 FEMALE



PCDD 104 MALE



CONTACT HOLE DIAMETERS

Suggest Ø 0.120 (3.05)
Mounting hole size

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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
	PCDD	26	M	98	S	0	T2	X		

STEP 1 - Basic Series
PCDD Series

STEP 2 - PCDD Series Connector Variants
15, 26, 44, 62, 78, 104

STEP 3 - Connector Gender
M - Male
F - Female
FC - Female, Closed Entry

STEP 4 - Type of Contacts
98 - Omega type compliant.

STEP 5 - Mounting Style
S - Swaged Mounting Post 4-40 Threads
0.265 (6,73) Length.

STEP 6 - Hoods
0 - None

STEP 7 - Locking and Polarizing Systems
0 - None.
V3 - Lock Tab.
T6 - Fixed Male and Female Polarized Jackscrews.
T2 - Fixed Female Jackscrews, 4-40 Thread.
Note: These options must be ordered with connector and cannot be ordered separately.

STEP 8 - Shell Options
0 - Zinc Plated with Dichromate Seal.
X - Tin Plated.
Z - Tin Plated and Dimpled.

STEP 9 - Special Options
Consult Sales Department.

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 (0.75 MICRONS) OVER NICKEL PLATE
-51 GOLD FLASH OVER NICKEL PLATE

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Q.P.L.
CONNECTORS

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

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 PART NUMBER	POSITRONIC * PART NUMBER
M24308/1-1	HDC9F20000-50
M24308/1-1F	HDC9F2000C-50
M24308/1-2	HDC15F20000-50
M24308/1-2F	HDC15F2000C-50
M24308/1-3	HDC25F20000-50
M24308/1-3F	HDC25F2000C-50
M24308/1-4	HDC37F20000-50
M24308/1-4F	HDC37F2000C-50
M24308/1-5	HDC50F20000-50
M24308/1-5F	HDC50F2000C-50
M24308/1-23	HDC9F2F000-50
M24308/1-23F	HDC9F2F00C-50
M24308/1-24	HDC15F2F000-50
M24308/1-24F	HDC15F2F00C-50
M24308/1-25	HDC25F2F000-50
M24308/1-25F	HDC25F2F00C-50
M24308/1-26	HDC37F2F000-50
M24308/1-26F	HDC37F2F00C-50
M24308/1-27	HDC50F2F000-50
M24308/1-27F	HDC50F2F00C-50
M24308/1-34	HDC9F20000-50-799.0
M24308/1-35	HDC15F20000-50-799.0
M24308/1-36	HDC25F20000-50-799.0
M24308/1-37	HDC37F20000-50-799.0
M24308/1-38	HDC50F20000-50-799.0
M24308/1-56	HDC9F2F000-50-799.2
M24308/1-57	HDC15F2F000-50-799.2
M24308/1-58	HDC25F2F000-50-799.2
M24308/1-59	HDC37F2F000-50-799.2
M24308/1-60	HDC50F2F000-50-799.2
M24308/2-1	RD9F10000-50
M24308/2-1F	RD9F1000C-50
M24308/2-2	RD15F10000-50
M24308/2-2F	RD15F1000C-50
M24308/2-3	RD25F10000-50
M24308/2-3F	RD25F1000C-50
M24308/2-4	RD37F10000-50
M24308/2-4F	RD37F1000C-50
M24308/2-5	RD50F10000-50
M24308/2-5F	RD50F1000C-50
M24308/2-6	RD9F10000-50-400.0
M24308/2-6F	RD9F1000C-50-400.0
M24308/2-7	RD15F10000-50-400.0
M24308/2-7F	RD15F1000C-50-400.0
M24308/2-8	RD25F10000-50-400.0
M24308/2-8F	RD25F1000C-50-400.0
M24308/2-9	RD37F10000-50-400.0
M24308/2-9F	RD37F1000C-50-400.0
M24308/2-10	RD50F10000-50-400.0
M24308/2-10F	RD50F1000C-50-400.0
M24308/2-11	DD15F10000-50
M24308/2-11F	DD15F1000C-50
M24308/2-12	DD26F10000-50
M24308/2-12F	DD26F1000C-50
M24308/2-13	DD44F10000-50
M24308/2-13F	DD44F1000C-50
M24308/2-14	DD62F10000-50
M24308/2-14F	DD62F1000C-50
M24308/2-15	DD78F10000-50
M24308/2-15F	DD78F1000C-50
M24308/2-16	DD104F10000-50
M24308/2-16F	DD104F1000C-50
M24308/2-17	DD15F10000-50-400.1
M24308/2-17F	DD15F1000C-50-400.1
M24308/2-18	DD26F10000-50-400.1
M24308/2-18F	DD26F1000C-50-400.1
M24308/2-19	DD44F10000-50-400.1
M24308/2-19F	DD44F1000C-50-400.1
M24308/2-20	DD62F10000-50-400.1
M24308/2-20F	DD62F1000C-50-400.1
M24308/2-21	DD78F10000-50-400.1
M24308/2-21F	DD78F1000C-50-400.1
M24308/2-22	DD104F10000-50-400.1
M24308/2-22F	DD104F1000C-50-400.1
M24308/2-281	RD9F00000
M24308/2-281F	RD9F0000C
M24308/2-282	RD15F00000
M24308/2-282F	RD15F0000C
M24308/2-283	RD25F00000
M24308/2-283F	RD25F0000C
M24308/2-284	RD37F00000
M24308/2-284F	RD37F0000C
M24308/2-285	RD50F00000
M24308/2-285F	RD50F0000C
M24308/2-286	DD15F00000
M24308/2-286F	DD15F0000C
M24308/2-287	DD26F00000
M24308/2-287F	DD26F0000C
M24308/2-288	DD44F00000
M24308/2-288F	DD44F0000C
M24308/2-289	DD62F00000
M24308/2-289F	DD62F0000C
M24308/2-290	DD78F00000
M24308/2-290F	DD78F0000C
M24308/2-291	DD104F00000
M24308/2-291F	DD104F0000C
M24308/2-342	RD9F1F000-50
M24308/2-342F	RD9F1F00C-50
M24308/2-343	RD15F1F000-50
M24308/2-343F	RD15F1F00C-50
M24308/2-344	RD25F1F000-50
M24308/2-344F	RD25F1F00C-50
M24308/2-345	RD37F1F000-50
M24308/2-345F	RD37F1F00C-50
M24308/2-346	RD50F1F000-50
M24308/2-346F	RD50F1F00C-50
M24308/2-347	DD15F1F000-50
M24308/2-347F	DD15F1F00C-50
M24308/2-348	DD26F1F000-50
M24308/2-348F	DD26F1F00C-50
M24308/2-349	DD44F1F000-50
M24308/2-349F	DD44F1F00C-50
M24308/2-350	DD62F1F000-50
M24308/2-350F	DD62F1F00C-50
M24308/2-351	DD78F1F000-50
M24308/2-351F	DD78F1F00C-50
M24308/2-352	DD104F1F000-50
M24308/2-352F	DD104F1F00C-50
M24308/2-353	RD9F1F000-50-400.0
M24308/2-353F	RD9F1F00C-50-400.0
M24308/2-354	RD15F1F000-50-400.0
M24308/2-354F	RD15F1F00C-50-400.0
M24308/2-355	RD25F1F000-50-400.0
M24308/2-355F	RD25F1F00C-50-400.0
M24308/2-356	RD37F1F000-50-400.0
M24308/2-356F	RD37F1F00C-50-400.0
M24308/2-357	RD50F1F000-50-400.0
M24308/2-357F	RD50F1F00C-50-400.0
M24308/2-358	DD15F1F000-50-400.1
M24308/2-358F	DD15F1F00C-50-400.1
M24308/2-359	DD26F1F000-50-400.1
M24308/2-359F	DD26F1F00C-50-400.1
M24308/2-360	DD44F1F000-50-400.1
M24308/2-360F	DD44F1F00C-50-400.1
M24308/2-361	DD62F1F000-50-400.1
M24308/2-361F	DD62F1F00C-50-400.1
M24308/2-362	DD78F1F000-50-400.1
M24308/2-362F	DD78F1F00C-50-400.1
M24308/2-363	DD104F1F000-50-400.1
M24308/2-363F	DD104F1F00C-50-400.1
M24308/2-482	RD9F0F000
M24308/2-482F	RD9F0F00C
M24308/2-483	RD15F0F000
M24308/2-483F	RD15F0F00C
M24308/2-484	RD25F0F000
M24308/2-484F	RD25F0F00C
M24308/2-485	RD37F0F000
M24308/2-485F	RD37F0F00C
M24308/2-486	RD50F0F000
M24308/2-486F	RD50F0F00C
M24308/2-487	DD15F0F000
M24308/2-487F	DD15F0F00C
M24308/2-488	DD26F0F000
M24308/2-488F	DD26F0F00C
M24308/2-489	DD44F0F000
M24308/2-489F	DD44F0F00C
M24308/2-490	DD62F0F000
M24308/2-490F	DD62F0F00C
M24308/2-491	DD78F0F000
M24308/2-491F	DD78F0F00C
M24308/2-492	DD104F0F000
M24308/2-492F	DD104F0F00C
M24308/2-516	RD9F10000-50-799.0
M24308/2-517	RD15F10000-50-799.0
M24308/2-518	RD25F10000-50-799.0
M24308/2-519	RD37F10000-50-799.0
M24308/2-520	RD50F10000-50-799.0
M24308/2-521	RD9F10000-50-799.1
M24308/2-522	RD15F10000-50-799.1
M24308/2-523	RD25F10000-50-799.1
M24308/2-524	RD37F10000-50-799.1
M24308/2-525	RD50F10000-50-799.1
M24308/2-526	DD15F10000-50-799.0
M24308/2-527	DD26F10000-50-799.0
M24308/2-528	DD44F10000-50-799.0
M24308/2-529	DD62F10000-50-799.0
M24308/2-530	DD78F10000-50-799.0
M24308/2-531	DD104F10000-50-799.0
M24308/2-532	DD15F10000-50-799.1
M24308/2-533	DD26F10000-50-799.1
M24308/2-534	DD44F10000-50-799.1
M24308/2-535	DD62F10000-50-799.1
M24308/2-536	DD78F10000-50-799.1
M24308/2-537	DD104F10000-50-799.1
M24308/2-560	RD9F00000-799.0
M24308/2-561	RD15F00000-799.0
M24308/2-562	RD25F00000-799.0
M24308/2-563	RD37F00000-799.0
M24308/2-564	RD50F00000-799.0
M24308/2-565	DD15F00000-799.0
M24308/2-566	DD26F00000-799.0
M24308/2-567	DD44F00000-799.0
M24308/2-568	DD62F00000-799.0
M24308/2-569	DD78F00000-799.0
M24308/2-570	DD104F00000-799.0
M24308/2-585	RD9F1F000-50-799.2
M24308/2-586	RD15F1F000-50-799.2
M24308/2-587	RD25F1F000-50-799.2
M24308/2-588	RD37F1F000-50-799.2
M24308/2-589	RD50F1F000-50-799.2
M24308/2-590	DD15F1F000-50-799.2
M24308/2-591	DD26F1F000-50-799.2
M24308/2-592	DD44F1F000-50-799.2
M24038/2-593	DD62F1F000-50-799.2
M24308/2-594	DD78F1F000-50-799.2
M24308/2-595	DD104F1F000-50-799.2
M24308/2-596	RD9F1F000-50-799.3
M24308/2-597	RD15F1F000-50-799.3
M24308/2-598	RD25F1F000-50-799.3
M24308/2-599	RD37F1F000-50-799.3
M24308/2-600	RD50F1F000-50-799.3
M24308/2-601	DD15F1F000-50-799.3
M24308/2-602	DD26F1F000-50-799.3
M24308/2-603	DD44F1F000-50-799.3
M24308/2-604	DD62F1F000-50-799.3
M24308/2-605	DD78F1F000-50-799.3
M24308/2-606	DD104F1F000-50-799.3
M24308/2-607	RD9F0F000-799.2
M24308/2-608	RD15F0F000-799.2
M24308/2-609	RD25F0F000-799.2
M24308/2-610	RD37F0F000-799.2
M24308/2-611	RD50F0F000-799.2
M24308/2-612	DD15F0F000-799.2
M24308/2-613	DD26F0F000-799.2
M24308/2-614	DD44F0F000-799.2
M24308/2-615	DD62F0F000-799.2
M24308/2-616	DD78F0F000-799.2
M24308/2-617	DD104F0F000-799.2
M24308/3-1	HDC9M20000-50
M24308/3-1F	HDC9M2000C-50
M24308/3-2	HDC15M20000-50
M24308/3-2F	HDC15M2000C-50
M24308/3-3	HDC25M20000-50
M24308/3-3F	HDC25M2000C-50
M24308/3-4	HDC37M20000-50
M24308/3-4F	HDC37M2000C-50
M24308/3-5	HDC50M20000-50
M24308/3-5F	HDC50M2000C-50
M24308/3-12	HDC9M2F000-50
M24308/3-12F	HDC9M2F00C-50
M24308/3-13	HDC15M2F000-50
M24308/3-13F	HDC15M2F00C-50
M24308/3-14	HDC25M2F000-50
M24308/3-14F	HDC25M2F00C-50
M24308/3-15	HDC37M2F000-50
M24308/3-15F	HDC37M2F00C-50
M24308/3-16	HDC50M2F000-50
M24308/3-16F	HDC50M2F00C-50
M24308/3-17	HDC9M2F000-50
M24308/3-17F	HDC9M2F00C-50
M24308/3-18	HDC15M2F000-50
M24308/3-18F	HDC15M2F00C-50
M24308/3-19	HDC25M2F000-50
M24308/3-19F	HDC25M2F00C-50
M24308/3-20	HDC37M2F000-50
M24308/3-20F	HDC37M2F00C-50
M24308/3-21	HDC50M2F000-50
M24308/3-21F	HDC50M2F00C-50
M24308/3-23	HDC9M20000-50-799.0
M24308/3-24	HDC15M20000-50-799.0
M24308/3-25	HDC25M20000-50-799.0
M24308/3-26	HDC37M20000-50-799.0
M24308/3-27	HDC50M20000-50-799.0
M24308/3-39	HDC9M2F000-50-799.2
M24308/3-40	HDC15M2F000-50-799.2
M24308/3-41	HDC25M2F000-50-799.2
M24308/3-42	HDC37M2F000-50-799.2
M24308/3-43	HDC50M2F000-50-799.2
M24308/4-1	RD9M10000-50
M24308/4-1F	RD9M1000C-50
M24308/4-2	RD15M10000-50
M24308/4-2F	RD15M1000C-50
M24308/4-3	RD25M10000-50
M24308/4-3F	RD25M1000C-50
M24308/4-4	RD37M10000-50
M24308/4-4F	RD37M1000C-50
M24308/4-5	RD50M10000-50
M24308/4-5F	RD50M1000C-50
M24308/4-6	RD9M10000-50-400.0
M24308/4-6F	RD9M1000C-50-400.0
M24308/4-7	RD15M10000-50-400.0
M24308/4-7F	RD15M1000C-50-400.0
M24308/4-8	RD25M10000-50-400.0
M24308/4-8F	RD25M1000C-50-400.0
M24308/4-9	RD37M10000-50-400.0
M24308/4-9F	RD37M1000C-50-400.0
M24308/4-10	RD50M10000-50-400.0
M24308/4-10F	RD50M1000C-50-400.0
M24308/4-11	DD15M10000-50
M24308/4-11F	DD15M1000C-50
M24308/4-12	DD26M10000-50
M24308/4-12F	DD26M1000C-50
M24308/4-13	DD44M10000-50
M24308/4-13F	DD44M1000C-50
M24308/4-14	DD62M10000-50
M24308/4-14F	DD62M1000C-50
M24308/4-15	DD78M10000-50
M24308/4-15F	DD78M1000C-50
M24308/4-16	DD104M10000-50
M24308/4-16F	DD104M1000C-50
M24308/4-17	DD15M10000-50-400.1
M24308/4-17F	DD15M1000C-50-400.1
M24308/4-18	DD26M10000-50-400.1
M24308/4-18F	DD26M1000C-50-400.1
M24308/4-19	DD44M10000-50-400.1
M24308/4-19F	DD44M1000C-50-400.1
M24308/4-20	DD62M10000-50-400.1
M24308/4-20F	DD62M1000C-50-400.1
M24308/4-21	DD78M10000-50-400.1
M24308/4-21F	DD78M1000C-50-400.1
M24308/4-22	DD104M10000-50-400.1
M24308/4-22F	DD104M1000C-50-400.1
M24308/4-259	RD9M00000
M24308/4-259F	RD9M0000C
M24308/4-260	RD15M00000
M24308/4-260F	RD15M0000C
M24308/4-261	RD25M00000
M24308/4-261F	RD25M0000C
M24308/4-262	RD37M00000
M24308/4-262F	RD37M0000C
M24308/4-263	RD50M00000
M24308/4-263F	RD50M0000C
M24308/4-264	DD15M00000
M24308/4-264F	DD15M0000C
M24308/4-265	DD26M00000
M24308/4-265F	DD26M0000C
M24308/4-266	DD44M00000
M24308/4-266F	DD44M0000C
M24308/4-267	DD62M00000
M24308/4-267F	DD62M0000C
M24308/4-268	DD78M00000
M24308/4-268F	DD78M0000C
M24308/4-269	DD104M00000
M24308/4-269F	DD104M0000C
M24308/4-302	RD9M1F000-50
M24308/4-302F	RD9M1F00C-50

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

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Q.P.L.
CONNECTORS

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

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.
Positronic RD Series contacts are Q.P.L. approved to MIL-C-39029 per test report number 39029-694-79.

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/4-303	RD15M1F000-50
M24308/4-303F	RD15M1F00C-50
M24308/4-304	RD25M1F000-50
M24308/4-304F	RD25M1F00C-50
M24308/4-305	RD37M1F000-50
M24308/4-305F	RD37M1F00C-50
M24308/4-306	RD50M1F000-50
M24308/4-306F	RD50M1F00C-50
M24308/4-313	RD9M1F000-50-400.0
M24308/4-313F	RD9M1F00C-50-400.0
M24308/4-314	RD15M1F000-50-400.0
M24308/4-314F	RD15M1F00C-50-400.0
M24308/4-315	RD25M1F000-50-400.0
M24308/4-315F	RD25M1F00C-50-400.0
M24308/4-316	RD37M1F000-50-400.0
M24308/4-316F	RD37M1F00C-50-400.0
M24308/4-317	RD50M1F000-50-400.0
M24308/4-317F	RD50M1F00C-50-400.0
M24308/4-324	RD9M0F000
M24308/4-324F	RD9M0F00C
M24308/4-325	RD15M0F000
M24308/4-325F	RD15M0F00C
M24308/4-326	RD25M0F000
M24308/4-326F	RD25M0F00C
M24308/4-327	RD37M0F000
M24308/4-327F	RD37M0F00C
M24308/4-328	RD50M0F000
M24308/4-328F	RD50M0F00C
M24308/4-335	RD9M10000-50-799.0
M24308/4-336	RD15M10000-50-799.0
M24308/4-337	RD25M10000-50-799.0
M24308/4-338	RD37M10000-50-799.0
M24308/4-339	RD50M10000-50-799.0
M24308/4-340	RD9M10000-50-799.1
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M24308/4-342	RD25M10000-50-799.1
M24308/4-343	RD37M10000-50-799.1
M24308/4-344	RD50M10000-50-799.1
M24308/4-345	DD15M10000-50-799.0
M24308/4-346	DD26M10000-50-799.0
M24308/4-347	DD44M10000-50-799.0
M24308/4-348	DD62M10000-50-799.0
M24308/4-349	DD78M10000-50-799.0
M24308/4-350	DD104M10000-50-799.0
M24308/4-351	DD15M10000-50-799.1
M24308/4-352	DD26M10000-50-799.1
M24308/4-353	DD44M10000-50-799.1
M24308/4-354	DD62M10000-50-799.1
M24308/4-355	DD78M10000-50-799.1
M24308/4-356	DD104M10000-50-799.1
M24308/4-357	RD9M00000-799.0
M24308/4-358	RD15M00000-799.0
M24308/4-359	RD25M00000-799.0
M24308/4-360	RD37M00000-799.0
M24308/4-361	RD50M00000-799.0
M24308/4-362	DD15M00000-799.0
M24308/4-363	DD26M00000-799.0
M24308/4-364	DD44M00000-799.0
M24308/4-365	DD62M00000-799.0
M24308/4-366	DD78M00000-799.0
M24308/4-367	DD104M00000-799.0
M24308/4-401	RD9M1F000-50-799.2
M24308/4-402	RD15M1F000-50-799.2
M24308/4-403	RD25M1F000-50-799.2
M24308/4-404	RD37M1F000-50-799.2
M24308/4-405	RD50M1F000-50-799.2
M24308/4-406	DD15M1F000-50-799.2
M24308/4-407	DD26M1F000-50-799.2
M24308/4-408	DD44M1F000-50-799.2
M24308/4-409	DD62M1F000-50-799.2
M24308/4-410	DD78M1F000-50-799.2
M24308/4-411	DD104M1F000-50-799.2
M24308/4-412	RD9M1F000-50-799.3
M24308/4-413	RD15M1F000-50-799.3
M24308/4-414	RD25M1F000-50-799.3
M24308/4-415	RD37M1F000-50-799.3
M24308/4-416	RD50M1F000-50-799.3
M24308/4-417	DD15M1F000-50-799.3
M24308/4-418	DD26M1F000-50-799.3
M24308/4-419	DD44M1F000-50-799.3
M24308/4-420	DD62M1F000-50-799.3
M24308/4-421	DD78M1F000-50-799.3
M24308/4-422	DD104M1F000-50-799.3
M24308/4-423	RD9M0F000-799.2
M24308/4-424	RD15M0F000-799.2
M24308/4-425	RD25M0F000-799.2
M24308/4-426	RD37M0F000-799.2
M24308/4-427	RD50M0F000-799.2
M24308/4-428	DD15M0F000-799.2
M24308/4-429	DD26M0F000-799.2
M24308/4-430	DD44M0F000-799.2
M24308/4-431	DD62M0F000-799.2
M24308/4-432	DD78M0F000-799.2
M24308/4-433	DD104M0F000-799.2
M24308/4-435	RD9M1F000-50
M24308/4-435F	RD9M1F00C-50
M24308/4-436	RD15M1F000-50
M24308/4-436F	RD15M1F00C-50
M24308/4-437	RD25M1F000-50
M24308/4-437F	RD25M1F00C-50
M24308/4-438	RD37M1F000-50
M24308/4-438F	RD37M1F00C-50
M24308/4-439	RD50M1F000-50
M24308/4-439F	RD50M1F00C-50
M24308/4-440	DD15M10000-50
M24308/4-440F	DD15M1000C-50
M24308/4-441	DD26M10000-50
M24308/4-441F	DD26M1000C-50
M24308/4-442	DD44M10000-50
M24308/4-442F	DD44M1000C-50
M24308/4-443	DD62M10000-50
M24308/4-443F	DD62M1000C-50
M24308/4-444	DD78M10000-50
M24308/4-444F	DD78M1000C-50
M24308/4-445	DD104M10000-50
M24308/4-445F	DD104M1000C-50
M24308/4-446	RD9M1F000-50-400.0
M24308/4-446F	RD9M1F00C-50-400.0
M24308/4-447	RD15M1F000-50-400.0
M24308/4-447F	RD15M1F00C-50-400.0
M24308/4-448	RD25M1F000-50-400.0
M24308/4-448F	RD25M1F00C-50-400.0
M24308/4-449	RD37M1F000-50-400.0
M24308/4-449F	RD37M1F00C-50-400.0
M24308/4-450	RD50M1F000-50-400.0
M24308/4-450F	RD50M1F00C-50-400.0
M24308/4-451	DD15M1F000-50-400.1
M24308/4-451F	DD15M1F00C-50-400.1
M24308/4-452	DD26M1F000-50-400.1
M24308/4-452F	DD26M1F00C-50-400.1
M24308/4-453	DD44M1F000-50-400.1
M24308/4-453F	DD44M1F00C-50-400.1
M24308/4-454	DD62M1F000-50-400.1
M24308/4-454F	DD62M1F00C-50-400.1
M24308/4-455	DD78M1F000-50-400.1
M24308/4-455F	DD78M1F00C-50-400.1
M24308/4-456	DD104M1F000-50-400.1
M24308/4-456F	DD104M1F00C-50-400.1
M24308/4-457	RD9M0F000
M24308/4-457F	RD9M0F00C
M24308/4-458	RD15M0F000
M24308/4-458F	RD15M0F00C
M24308/4-459	RD25M0F000
M24308/4-459F	RD25M0F00C
M24308/4-460	RD37M0F000
M24308/4-460F	RD37M0F00C
M24308/4-461	RD50M0F000
M24308/4-461F	RD50M0F00C
M24308/4-462	DD15M0F000
M24308/4-462F	DD15M0F00C
M24308/4-463	DD26M0F000
M24308/4-463F	DD26M0F00C
M24308/4-464	DD44M0F000
M24308/4-464F	DD44M0F00C
M24308/4-465	DD62M0F000
M24308/4-465F	DD62M0F00C
M24308/4-466	DD78M0F000
M24308/4-466F	DD78M0F00C
M24308/4-467	DD104M0F000
M24308/4-467F	DD104M0F00C
M24308/5-1	HDC9F20000-50-403.0
M24308/5-1F	HDC9F2000C-50-403.0
M24308/5-1P	HDC9F2000S-50
M24308/5-2	HDC15F20000-50-403.0
M24308/5-2F	HDC15F2000C-50-403.0
M24308/5-2P	HDC15F2000S-50
M24308/5-3	HDC25F20000-50-403.0
M24308/5-3F	HDC25F2000C-50-403.0
M24308/5-3P	HDC25F2000S-50
M24308/5-4	HDC37F20000-50-403.0
M24308/5-4F	HDC37F2000C-50-403.0
M24308/5-4P	HDC37F2000S-50
M24308/5-5	HDC50F20000-50-403.0
M24308/5-5F	HDC50F2000C-50-403.0
M24308/5-5P	HDC50F2000S-50
M24308/5-23	HDC9F2F000-50-403.0
M24308/5-23F	HDC9F2F00C-50-403.0
M24308/5-23P	HDC9F2F00S-50
M24308/5-24	HDC15F2F000-50-403.0
M24308/5-24F	HDC15F2F00C-50-403.0
M24308/5-24P	HDC15F2F00S-50
M24308/5-25	HDC25F2F000-50-403.0
M24308/5-25F	HDC25F2F00C-50-403.0
M24308/5-25P	HDC25F2F00S-50
M24308/5-26	HDC37F2F000-50-403.0
M24308/5-26F	HDC37F2F00C-50-403.0
M24308/5-26P	HDC37F2F00S-50
M24308/5-27	HDC50F2F000-50-403.0
M24308/5-27F	HDC50F2F00C-50-403.0
M24308/5-27P	HDC50F2F00S-50
M24308/5-34	HDC9F20000-50-403.3
M24308/5-35	HDC15F20000-50-403.3
M24308/5-36	HDC25F20000-50-403.3
M24308/5-37	HDC37F20000-50-403.3
M24308/5-38	HDC50F20000-50-403.3
M24308/5-56	HDC9F2F000-50-403.4
M24308/5-57	HDC15F2F000-50-403.4
M24308/5-58	HDC25F2F000-50-403.4
M24308/5-59	HDC37F2F000-50-403.4
M24308/5-60	HDC50F2F000-50-403.4
M24308/6-1	RD9F10000-50-403.0
M24308/6-1F	RD9F1000C-50-403.0
M24308/6-1P	RD9F1000S-50
M24308/6-2	RD15F10000-50-403.0
M24308/6-2F	RD15F1000C-50-403.0
M24308/6-2P	RD15F1000S-50
M24308/6-3	RD25F10000-50-403.0
M24308/6-3F	RD25F1000C-50-403.0
M24308/6-3P	RD25F1000S-50
M24308/6-4	RD37F10000-50-403.0
M24308/6-4F	RD37F1000C-50-403.0
M24308/6-4P	RD37F1000S-50
M24308/6-5	RD50F10000-50-403.0
M24308/6-5F	RD50F1000C-50-403.0
M24308/6-5P	RD50F1000S-50
M24308/6-6	RD9F10000-50-403.1
M24308/6-6F	RD9F1000C-50-403.1
M24308/6-6P	RD9F1000S-50-400.0
M24308/6-7	RD15F10000-50-403.1
M24308/6-7F	RD15F1000C-50-403.1
M24308/6-7P	RD15F1000S-50-400.0
M24308/6-8	RD25F10000-50-403.1
M24308/6-8F	RD25F1000C-50-403.1
M24308/6-8P	RD25F1000S-50-400.0
M24308/6-9	RD37F10000-50-403.1
M24308/6-9F	RD37F1000C-50-403.1
M24308/6-9P	RD37F1000S-50-400.0
M24308/6-10	RD50F10000-50-403.1
M24308/6-10F	RD50F1000C-50-403.1
M24308/6-10P	RD50F1000S-50-400.0
M24308/6-11	DD15F10000-50-403.0
M24308/6-11F	DD15F1000C-50-403.0
M24308/6-11P	DD15F1000S-50
M24308/6-12	DD26F10000-50-403.0
M24308/6-12F	DD26F1000C-50-403.0
M24308/6-12P	DD26F1000S-50
M24308/6-13	DD44F10000-50-403.0
M24308/6-13F	DD44F1000C-50-403.0
M24308/6-13P	DD44F1000S-50
M24308/6-14	DD62F10000-50-403.0
M24308/6-14F	DD62F1000C-50-403.0
M24308/6-14P	DD62F1000S-50
M24308/6-15	DD78F10000-50-403.0
M24308/6-15F	DD78F1000C-50-403.0
M24308/6-15P	DD78F1000S-50
M24308/6-16	DD104F10000-50-403.0
M24308/6-16F	DD104F1000C-50-403.0
M24308/6-16P	DD104F1000S-50
M24308/6-17	DD15F10000-50-403.2
M24308/6-17F	DD15F1000C-50-403.2
M24308/6-17P	DD15F1000S-50-400.1
M24308/6-18	DD26F10000-50-403.2
M24308/6-18F	DD26F1000C-50-403.2
M24308/6-18P	DD26F1000S-50-400.1
M24308/6-19	DD44F10000-50-403.2
M24308/6-19F	DD44F1000C-50-403.2
M24308/6-19P	DD44F1000S-50-400.1
M24308/6-20	DD62F10000-50-403.2
M24308/6-20F	DD62F1000C-50-403.2
M24308/6-20P	DD62F1000S-50-400.1
M24308/6-21	DD78F10000-50-403.2
M24308/6-21F	DD78F1000C-50-403.2
M24308/6-21P	DD78F1000S-50-400.1
M24308/6-22	DD104F10000-50-403.2
M24308/6-22F	DD104F1000C-50-403.2
M24308/6-22P	DD104F1000S-50-400.1
M24308/6-281	RD9F00000-403.0
M24308/6-281F	RD9F0000C-403.0
M24308/6-281P	RD9F0000S
M24308/6-282	RD15F00000-403.0
M24308/6-282F	RD15F0000C-403.0
M24308/6-282P	RD15F0000S
M24308/6-283	RD25F00000-403.0
M24308/6-283F	RD25F0000C-403.0
M24308/6-283P	RD25F0000S
M24308/6-284	RD37F00000-403.0
M24308/6-284F	RD37F0000C-403.0
M24308/6-284P	RD37F0000S
M24308/6-285	RD50F00000-403.0
M24308/6-285F	RD50F0000C-403.0
M24308/6-285P	RD50F0000S
M24308/6-286	DD15F00000-403.0
M24308/6-286F	DD15F0000C-403.0
M24308/6-286P	DD15F0000S
M24308/6-287	DD26F00000-403.0
M24308/6-287F	DD26F0000C-403.0
M24308/6-287P	DD26F0000S
M24308/6-288	DD44F00000-403.0
M24308/6-288F	DD44F0000C-403.0
M24308/6-288P	DD44F0000S
M24308/6-289	DD62F00000-403.0
M24308/6-289F	DD62F0000C-403.0
M24308/6-289P	DD62F0000S
M24308/6-290	DD78F00000-403.0
M24308/6-290F	DD78F0000C-403.0
M24308/6-290P	DD78F0000S
M24308/6-291	DD104F00000-403.0
M24308/6-291F	DD104F0000C-403.0
M24308/6-291P	DD104F0000S
M24308/6-453	RD9F1F000-50-403.0
M24308/6-453F	RD9F1F00C-50-403.0
M24308/6-453P	RD9F1F00S-50
M24308/6-454	RD15F1F000-50-403.0
M24308/6-454F	RD15F1F00C-50-403.0
M24308/6-454P	RD15F1F00S-50
M24308/6-455	RD25F1F000-50-403.0
M24308/6-455F	RD25F1F00C-50-403.0
M24308/6-455P	RD25F1F00S-50
M24308/6-456	RD37F1F000-50-403.0
M24308/6-456F	RD37F1F00C-50-403.0
M24308/6-456P	RD37F1F00S-50
M24308/6-457	RD50F1F000-50-403.0
M24308/6-457F	RD50F1F00C-50-403.0
M24308/6-457P	RD50F1F00S-50
M24308/6-458	DD15F1F000-50-403.0
M24308/6-458F	DD15F1F00C-50-403.0

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

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Q.P.L.
CONNECTORS

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

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.
Positronic RD Series contacts are Q.P.L. approved to MIL-C-39029 per test report number 39029-694-79.

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/6-458P	DD15F1F00S-50
M24308/6-459	DD26F1F000-50-403.0
M24308/6-459F	DD26F1F00C-50-403.0
M24308/6-459P	DD26F1F00S-50
M24308/6-460	DD44F1F000-50-403.0
M24308/6-460F	DD44F1F00C-50-403.0
M24308/6-460P	DD44F1F00S-50
M24308/6-461	DD62F1F000-50-403.0
M24308/6-461F	DD62F1F00C-50-403.0
M24308/6-461P	DD62F1F00S-50
M24308/6-462	DD78F1F000-50-403.0
M24308/6-462F	DD78F1F00C-50-403.0
M24308/6-462P	DD78F1F00S-50
M24308/6-463	DD104F1F000-50-403.0
M24308/6-463F	DD104F1F00C-50-403.0
M24308/6-463P	DD104F1F00S-50
M24308/6-464	RD9F1F000-50-403.1
M24308/6-464F	RD9F1F00C-50-403.1
M24308/6-464P	RD9F1F00S-50-400.0
M24308/6-465	RD15F1F000-50-403.1
M24308/6-465F	RD15F1F00C-50-403.1
M24308/6-465P	RD15F1F00S-50-400.0
M24308/6-466	RD25F1F000-50-403.1
M24308/6-466F	RD25F1F00C-50-403.1
M24308/6-466P	RD25F1F00S-50-400.0
M24308/6-467	RD37F1F000-50-403.1
M24308/6-467F	RD37F1F00C-50-403.1
M24308/6-467P	RD37F1F00S-50-400.0
M24308/6-468	RD50F1F000-50-403.1
M24308/6-468F	RD50F1F00C-50-403.1
M24308/6-468P	RD50F1F00S-50-400.0
M24308/6-469	DD15F1F000-50-403.2
M24308/6-469F	DD15F1F00C-50-403.2
M24308/6-469P	DD15F1F00S-50-400.1
M24308/6-470	DD26F1F000-50-403.2
M24308/6-470F	DD26F1F00C-50-403.2
M24308/6-470P	DD26F1F00S-50-400.1
M24308/6-471	DD44F1F000-50-403.2
M24308/6-471F	DD44F1F00C-50-403.2
M24308/6-471P	DD44F1F00S-50-400.1
M24308/6-472	DD62F1F000-50-403.2
M24308/6-472F	DD62F1F00C-50-403.2
M24308/6-472P	DD62F1F00S-50-400.1
M24308/6-473	DD78F1F000-50-403.2
M24308/6-473F	DD78F1F00C-50-403.2
M24308/6-473P	DD78F1F00S-50-400.1
M24308/6-474	DD104F1F000-50-403.2
M24308/6-474F	DD104F1F00C-50-403.2
M24308/6-474P	DD104F1F00S-50-400.1
M24308/6-491	RD9F0F000-403.0
M24308/6-491F	RD9F0F00C-403.0
M24308/6-491P	RD9F0F00S
M24308/6-492	RD15F0F000-403.0
M24308/6-492F	RD15F0F00C-403.0
M24308/6-492P	RD15F0F00S
M24308/6-493	RD25F0F000-403.0
M24308/6-493F	RD25F0F00C-403.0
M24308/6-493P	RD25F0F00S
M24308/6-494	RD37F0F000-403.0
M24308/6-494F	RD37F0F00C-403.0
M24308/6-494P	RD37F0F00S
M24308/6-495	RD50F0F000-403.0
M24308/6-495F	RD50F0F00C-403.0
M24308/6-495P	RD50F0F00S
M24308/6-496	DD15F0F000-403.0
M24308/6-496F	DD15F0F00C-403.0
M24308/6-496P	DD15F0F00S
M24308/6-497	DD26F0F000-403.0
M24308/6-497F	DD26F0F00C-403.0
M24308/6-497P	DD26F0F00S
M24308/6-498	DD44F0F000-403.0
M24308/6-498F	DD44F0F00C-403.0
M24308/6-498P	DD44F0F00S
M24308/6-499	DD62F0F000-403.0
M24308/6-499F	DD62F0F00C-403.0
M24308/6-499P	DD62F0F00S
M24308/6-500	DD78F0F000-403.0
M24308/6-500F	DD78F0F00C-403.0
M24308/6-500P	DD78F0F00S
M24308/6-501	DD104F0F000-403.0
M24308/6-501F	DD104F0F00C-403.0

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/6-501P	DD104F0F00S
M24308/6-502	RD9F10000-50-403.3
M24308/6-503	RD15F10000-50-403.3
M24308/6-504	RD25F10000-50-403.3
M24308/6-505	RD37F10000-50-403.3
M24308/6-506	RD50F10000-50-403.3
M24308/6-507	RD9F10000-50-403.5
M24308/6-508	RD15F10000-50-403.5
M24308/6-509	RD25F10000-50-403.5
M24308/6-510	RD37F10000-50-403.5
M24308/6-511	RD50F10000-50-403.5
M24308/6-512	DD15F10000-50-403.3
M24308/6-513	DD26F10000-50-403.3
M24308/6-514	DD44F10000-50-403.3
M24308/6-515	DD62F10000-50-403.3
M24308/6-516	DD78F10000-50-403.3
M24308/6-517	DD104F10000-50-403.3
M24308/6-518	DD15F10000-50-403.5
M24308/6-519	DD26F10000-50-403.5
M24308/6-520	DD44F10000-50-403.5
M24308/6-521	DD62F10000-50-403.5
M24308/6-522	DD78F10000-50-403.5
M24308/6-523	DD104F10000-50-403.5
M24308/6-540	RD9F00000-403.3
M24308/6-541	RD15F00000-403.3
M24308/6-542	RD25F00000-403.3
M24308/6-543	RD37F00000-403.3
M24308/6-544	RD50F00000-403.3
M24308/6-545	DD15F00000-403.3
M24308/6-546	DD26F00000-403.3
M24308/6-547	DD44F00000-403.3
M24308/6-548	DD62F00000-403.3
M24308/6-549	DD78F00000-403.3
M24308/6-550	DD104F00000-403.3
M24308/6-551	RD9F1F000-50-403.4
M24308/6-552	RD15F1F000-50-403.4
M24308/6-553	RD25F1F000-50-403.4
M24308/6-554	RD37F1F000-50-403.4
M24308/6-555	RD50F1F000-50-403.4
M24308/6-556	DD15F1F000-50-403.4
M24308/6-557	DD26F1F000-50-403.4
M24308/6-558	DD44F1F000-50-403.4
M24308/6-559	DD62F1F000-50-403.4
M24308/6-560	DD78F1F000-50-403.4
M24308/6-561	DD104F1F000-50-403.4
M24308/6-562	RD9F1F000-50-403.6
M24308/6-563	RD15F1F000-50-403.6
M24308/6-564	RD25F1F000-50-403.6
M24308/6-565	RD37F1F000-50-403.6
M24308/6-566	RD50F1F000-50-403.6
M24308/6-567	DD15F1F000-50-403.6
M24308/6-568	DD26F1F000-50-403.6
M24308/6-569	DD44F1F000-50-403.6
M24308/6-570	DD62F1F000-50-403.6
M24308/6-571	DD78F1F000-50-403.6
M24308/6-572	DD104F1F000-50-403.6
M24308/6-573	RD9F0F000-403.4
M24308/6-574	RD15F0F000-403.4
M24308/6-575	RD25F0F000-403.4
M24308/6-576	RD37F0F000-403.4
M24308/6-577	RD50F0F000-403.4
M24308/6-578	DD15F0F000-403.4
M24308/6-579	DD26F0F000-403.4
M24308/6-580	DD44F0F000-403.4
M24308/6-581	DD62F0F000-403.4
M24308/6-582	DD78F0F000-403.4
M24308/6-583	DD104F0F000-403.4
M24308/7-1	HDC9M20000-50-403.0
M24308/7-1F	HDC9M2000C-50-403.0
M24308/7-1P	HDC9M2000S-50
M24308/7-2	HDC15M20000-50-403.0
M24308/7-2F	HDC15M2000C-50-403.0
M24308/7-2P	HDC15M2000S-50
M24308/7-3	HDC25M20000-50-403.0
M24308/7-3F	HDC25M2000C-50-403.0
M24308/7-3P	HDC25M2000S-50
M24308/7-4	HDC37M20000-50-403.0
M24308/7-4F	HDC37M2000C-50-403.0
M24308/7-4P	HDC37M2000S-50
M24308/7-5	HDC50M20000-50-403.0
M24308/7-5F	HDC50M2000C-50-403.0

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/7-5P	HDC50M2000S-50
M24308/7-12	HDC9M2F000-50-403.0
M24308/7-12F	HDC9M2F00C-50-403.0
M24308/7-12P	HDC9M2F00S-50
M24308/7-13	HDC15M2F000-50-403.0
M24308/7-13F	HDC15M2F00C-50-403.0
M24308/7-13P	HDC15M2F00S-50
M24308/7-14	HDC25M2F000-50-403.0
M24308/7-14F	HDC25M2F00C-50-403.0
M24308/7-14P	HDC25M2F00S-50
M24308/7-15	HDC37M2F000-50-403.0
M24308/7-15F	HDC37M2F00C-50-403.0
M24308/7-15P	HDC37M2F00S-50
M24308/7-16	HDC50M2F000-50-403.0
M24308/7-16F	HDC50M2F00C-50-403.0
M24308/7-16P	HDC50M2F00S-50
M24308/7-17	HDC9M2F000-50-403.0
M24308/7-17F	HDC9M2F00C-50-403.0
M24308/7-17P	HDC9M2F00S-50
M24308/7-18	HDC15M2F000-50-403.0
M24308/7-18F	HDC15M2F00C-50-403.0
M24308/7-18P	HDC15M2F00S-50
M24308/7-19	HDC25M2F000-50-403.0
M24308/7-19F	HDC25M2F00C-50-403.0
M24308/7-19P	HDC25M2F00S-50
M24308/7-20	HDC37M2F000-50-403.0
M24308/7-20F	HDC37M2F00C-50-403.0
M24308/7-20P	HDC37M2F00S-50
M24308/7-21	HDC50M2F000-50-403.0
M24308/7-21F	HDC50M2F00C-50-403.0
M24308/7-21P	HDC50M2F00S-50
M24308/7-23	HDC9M20000-50-403.3
M24308/7-24	HDC15M20000-50-403.3
M24308/7-25	HDC25M20000-50-403.3
M24308/7-26	HDC37M20000-50-403.3
M24308/7-27	HDC50M20000-50-403.3
M24308/7-34	HDC9M2F000-50-403.4
M24308/7-35	HDC15M2F000-50-403.4
M24308/7-36	HDC25M2F000-50-403.4
M24308/7-37	HDC37M2F000-50-403.4
M24308/7-38	HDC50M2F000-50-403.4
M24308/8-1	RD9M10000-50-403.0
M24308/8-1F	RD9M1000C-50-403.0
M24308/8-1P	RD9M1000S-50
M24308/8-2	RD15M10000-50-403.0
M24308/8-2F	RD15M1000C-50-403.0
M24308/8-2P	RD15M1000S-50
M24308/8-3	RD25M10000-50-403.0
M24308/8-3F	RD25M1000C-50-403.0
M24308/8-3P	RD25M1000S-50
M24308/8-4	RD37M10000-50-403.0
M24308/8-4F	RD37M1000C-50-403.0
M24308/8-4P	RD37M1000S-50
M24308/8-5	RD50M10000-50-403.0
M24308/8-5F	RD50M1000C-50-403.0
M24308/8-5P	RD50M1000S-50
M24308/8-6	RD9M10000-50-403.1
M24308/8-6F	RD9M1000C-50-403.1
M24308/8-6P	RD9M1000S-50-400.0
M24308/8-7	RD15M10000-50-403.1
M24308/8-7F	RD15M1000C-50-403.1
M24308/8-7P	RD15M1000S-50-400.0
M24308/8-8	RD25M10000-50-403.1
M24308/8-8F	RD25M1000C-50-403.1
M24308/8-8P	RD25M1000S-50-400.0
M24308/8-9	RD37M10000-50-403.1
M24308/8-9F	RD37M1000C-50-403.1
M24308/8-9P	RD37M1000S-50-400.0
M24308/8-10	RD50M10000-50-403.1
M24308/8-10F	RD50M1000C-50-403.1
M24308/8-10P	RD50M1000S-50-400.0
M24308/8-11	DD15M10000-50-403.0
M24308/8-11F	DD15M1000C-50-403.0
M24308/8-11P	DD15M1000S-50
M24308/8-12	DD26M10000-50-403.0
M24308/8-12F	DD26M1000C-50-403.0
M24308/8-12P	DD26M1000S-50
M24308/8-13	DD44M10000-50-403.0
M24308/8-13F	DD44M1000C-50-403.0
M24308/8-13P	DD44M1000S-50
M24308/8-14	DD62M10000-50-403.0

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/8-14F	DD62M1000C-50-403.0
M24308/8-14P	DD62M1000S-50
M24308/8-15	DD78M10000-50-403.0
M24308/8-15F	DD78M1000C-50-403.0
M24308/8-15P	DD78M1000S-50
M24308/8-16	DD104M10000-50-403.0
M24308/8-16F	DD104M1000C-50-403.0
M24308/8-16P	DD104M1000S-50
M24308/8-17	DD15M10000-50-403.2
M24308/8-17F	DD15M1000C-50-403.2
M24308/8-17P	DD15M1000S-50-400.1
M24308/8-18	DD26M10000-50-403.2
M24308/8-18F	DD26M1000C-50-403.2
M24308/8-18P	DD26M1000S-50-400.1
M24308/8-19	DD44M10000-50-403.2
M24308/8-19F	DD44M1000C-50-403.2
M24308/8-19P	DD44M1000S-50-400.1
M24308/8-20	DD62M10000-50-403.2
M24308/8-20F	DD62M1000C-50-403.2
M24308/8-20P	DD62M1000S-50-400.1
M24308/8-21	DD78M10000-50-403.2
M24308/8-21F	DD78M1000C-50-403.2
M24308/8-21P	DD78M1000S-50-400.1
M24308/8-22	DD104M10000-50-403.2
M24308/8-22F	DD104M1000C-50-403.2
M24308/8-22P	DD104M1000S-50-400.1
M24308/8-259	RD9M00000-403.0
M24308/8-259F	RD9M0000C-403.0
M24308/8-259P	RD9M0000S
M24308/8-260	RD15M00000-403.0
M24308/8-260F	RD15M0000C-403.0
M24308/8-260P	RD15M0000S
M24308/8-261	RD25M00000-403.0
M24308/8-261F	RD25M0000C-403.0
M24308/8-261P	RD25M0000S
M24308/8-262	RD37M00000-403.0
M24308/8-262F	RD37M0000C-403.0
M24308/8-262P	RD37M0000S
M24308/8-263	RD50M00000-403.0
M24308/8-263F	RD50M0000C-403.0
M24308/8-263P	RD50M0000S
M24308/8-264	DD15M00000-403.0
M24308/8-264F	DD15M0000C-403.0
M24308/8-264P	DD15M0000S
M24308/8-265	DD26M00000-403.0
M24308/8-265F	DD26M0000C-403.0
M24308/8-265P	DD26M0000S
M24308/8-266	DD44M00000-403.0
M24308/8-266F	DD44M0000C-403.0
M24308/8-266P	DD44M0000S
M24308/8-267	DD62M00000-403.0
M24308/8-267F	DD62M0000C-403.0
M24308/8-267P	DD62M0000S
M24308/8-268	DD78M00000-403.0
M24308/8-268F	DD78M0000C-403.0
M24308/8-268P	DD78M0000S
M24308/8-269	DD104M00000-403.0
M24308/8-269F	DD104M0000C-403.0
M24308/8-269P	DD104M0000S
M24308/8-335	RD9M10000-50-403.3
M24308/8-336	RD15M10000-50-403.3
M24308/8-337	RD25M10000-50-403.3
M24308/8-338	RD37M10000-50-403.3
M24308/8-339	RD50M10000-50-403.3
M24308/8-340	RD9M10000-50-403.5
M24308/8-341	RD15M10000-50-403.5
M24308/8-342	RD25M10000-50-403.5
M24308/8-343	RD37M10000-50-403.5
M24308/8-344	RD50M10000-50-403.5
M24308/8-345	DD15M10000-50-403.3
M24308/8-346	DD26M10000-50-403.3
M24308/8-347	DD44M10000-50-403.3
M24308/8-348	DD62M10000-50-403.3
M24308/8-349	DD78M10000-50-403.3
M24308/8-350	DD104M10000-50-403.3
M24308/8-351	DD15M10000-50-403.5
M24308/8-352	DD26M10000-50-403.5
M24308/8-353	DD44M10000-50-403.5
M24308/8-354	DD62M10000-50-403.5
M24308/8-355	DD78M10000-50-403.5
M24308/8-356	DD104M10000-50-403.5

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

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Q.P.L.
CONNECTORS

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

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.
Positronic RD Series contacts are Q.P.L. approved to MIL-C-39029 per test report number 39029-694-79.

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/8-357	RD9M00000-403.3
M24308/8-358	RD15M00000-403.3
M24308/8-359	RD25M00000-403.3
M24308/8-360	RD37M00000-403.3
M24308/8-361	RD50M00000-403.3
M24308/8-362	DD15M00000-403.3
M24308/8-363	DD26M00000-403.3
M24308/8-364	DD44M00000-403.3
M24308/8-365	DD62M00000-403.3
M24308/8-366	DD78M00000-403.3
M24308/8-367	DD104M00000-403.3
M24308/8-401	RD9M1F000-50-403.4
M24308/8-402	RD15M1F000-50-403.4
M24308/8-403	RD25M1F000-50-403.4
M24308/8-404	RD37M1F000-50-403.4
M24308/8-405	RD50M1F000-50-403.4
M24308/8-406	DD15M1F000-50-403.4
M24308/8-407	DD26M1F000-50-403.4
M24308/8-408	DD44M1F000-50-403.4
M24308/8-409	DD62M1F000-50-403.4
M24308/8-410	DD78M1F000-50-403.4
M24308/8-411	DD104M1F000-50-403.4
M24308/8-412	RD9M1F000-50-403.6
M24308/8-413	RD15M1F000-50-403.6
M24308/8-414	RD25M1F000-50-403.6
M24308/8-415	RD37M1F000-50-403.6
M24308/8-416	RD50M1F000-50-403.6
M24308/8-417	DD15M1F000-50-403.6
M24308/8-418	DD26M1F000-50-403.6
M24308/8-419	DD44M1F000-50-403.6
M24308/8-420	DD62M1F000-50-403.6
M24308/8-421	DD78M1F000-50-403.6
M24308/8-422	DD104M1F000-50-403.6
M24308/8-423	RD9M0F000-403.4
M24308/8-424	RD15M0F000-403.4
M24308/8-425	RD25M0F000-403.4
M24308/8-426	RD37M0F000-403.4
M24308/8-427	RD50M0F000-403.4
M24308/8-428	DD15M0F000-403.4
M24308/8-429	DD26M0F000-403.4
M24308/8-430	DD44M0F000-403.4
M24308/8-431	DD62M0F000-403.4
M24308/8-432	DD78M0F000-403.4
M24308/8-433	DD104M0F000-403.4
M24308/8-435	RD9M1F000-50-403.0
M24308/8-435F	RD9M1F00C-50-403.0
M24308/8-435P	RD9M1F00S-50
M24308/8-436	RD15M1F000-50-403.0
M24308/8-436F	RD15M1F00C-50-403.0
M24308/8-436P	RD15M1F00S-50
M24308/8-437	RD25M1F000-50-403.0
M24308/8-437F	RD25M1F00C-50-403.0
M24308/8-437P	RD25M1F00S-50
M24308/8-438	RD37M1F000-50-403.0
M24308/8-438F	RD37M1F00C-50-403.0
M24308/8-438P	RD37M1F00S-50
M24308/8-439	RD50M1F000-50-403.0
M24308/8-439F	RD50M1F00C-50-403.0
M24308/8-439P	RD50M1F00S-50
M24308/8-440	DD15M1F000-50-403.0
M24308/8-440F	DD15M1F00C-50-403.0
M24308/8-440P	DD15M1F00S-50
M24308/8-441	DD26M1F000-50-403.0
M24308/8-441F	DD26M1F00C-50-403.0
M24308/8-441P	DD26M1F00S-50
M24308/8-442	DD44M1F000-50-403.0
M24308/8-442F	DD44M1F00C-50-403.0
M24308/8-442P	DD44M1F00S-50
M24308/8-443	DD62M1F000-50-403.0
M24308/8-443F	DD62M1F00C-50-403.0
M24308/8-443P	DD62M1F00S-50
M24308/8-444	DD78M1F000-50-403.0
M24308/8-444F	DD78M1F00C-50-403.0
M24308/8-444P	DD78M1F00S-50
M24308/8-445	DD104M1F000-50-403.0
M24308/8-445F	DD104M1F00C-50-403.0
M24308/8-445P	DD104M1F00S-50
M24308/8-446	RD9M1F000-50-403.1
M24308/8-446F	RD9M1F00C-50-403.1
M24308/8-446P	RD9M1F00S-50-400.0

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/8-447	RD15M1F000-50-403.1
M24308/8-447F	RD15M1F00C-50-403.1
M24308/8-447P	RD15M1F00S-50-400.0
M24308/8-448	RD25M1F000-50-403.1
M24308/8-448F	RD25M1F00C-50-403.1
M24308/8-448P	RD25M1F00S-50-400.0
M24308/8-449	RD37M1F000-50-403.1
M24308/8-449F	RD37M1F00C-50-403.1
M24308/8-449P	RD37M1F00S-50-400.0
M24308/8-450	RD50M1F000-50-403.1
M24308/8-450F	RD50M1F00C-50-403.1
M24308/8-450P	RD50M1F00S-50-400.0
M24308/8-451	DD15M1F000-50-403.2
M24308/8-451F	DD15M1F00C-50-403.2
M24308/8-451P	DD15M1F00S-50-400.1
M24308/8-452	DD26M1F000-50-403.2
M24308/8-452F	DD26M1F00C-50-403.2
M24308/8-452P	DD26M1F00S-50-400.1
M24308/8-453	DD44M1F000-50-403.2
M24308/8-453F	DD44M1F00C-50-403.2
M24308/8-453P	DD44M1F00S-50-400.1
M24308/8-454	DD62M1F000-50-403.2
M24308/8-454F	DD62M1F00C-50-403.2
M24308/8-454P	DD62M1F00S-50-400.1
M24308/8-455	DD78M1F000-50-403.2
M24308/8-455F	DD78M1F00C-50-403.2
M24308/8-455P	DD78M1F00S-50-400.1
M24308/8-456	DD104M1F000-50-403.2
M24308/8-456F	DD104M1F00C-50-403.2
M24308/8-456P	DD104M1F00S-50-400.1
M24308/8-457	RD9M0F000-403.0
M24308/8-457F	RD9M0F00C-403.0
M24308/8-457P	RD9M0F00S
M24308/8-458	RD15M0F000-403.0
M24308/8-458F	RD15M0F00C-403.0
M24308/8-458P	RD15M0F00S
M24308/8-459	RD25M0F000-403.0
M24308/8-459F	RD25M0F00C-403.0
M24308/8-459P	RD25M0F00S
M24308/8-460	RD37M0F000-403.0
M24308/8-460F	RD37M0F00C-403.0
M24308/8-460P	RD37M0F00S
M24308/8-461	RD50M0F000-403.0
M24308/8-461F	RD50M0F00C-403.0
M24308/8-461P	RD50M0F00S
M24308/8-462	DD15M0F000-403.0
M24308/8-462F	DD15M0F00C-403.0
M24308/8-462P	DD15M0F00S
M24608/8-463	DD26M0F000-403.0
M24308/8-463F	DD26M0F00C-403.0
M24308/8-463P	DD26M0F00S
M24308/8-464	DD44M0F000-403.0
M24308/8-464F	DD44M0F00C-403.0
M24308/8-464P	DD44M0F00S
M24308/8-465	DD62M0F000-403.0
M24308/8-465F	DD62M0F00C-403.0
M24308/8-465P	DD62M0F00S
M24308/8-466	DD78M0F000-403.0
M24308/8-466F	DD78M0F00C-403.0
M24308/8-466P	DD78M0F00S
M24308/8-467	DD104M0F000-403.0
M24308/8-467F	DD104M0F00C-403.0
M24308/8-467P	DD104M0F00S
M24308/23-1	HDC9F3P000-50
M24308/23-1F	HDC9F3P00C-50
M24308/23-1P	HDC9F3P00S-50
M24308/23-2	HDC15F3P000-50
M24308/23-2F	HDC15F3P00C-50
M24308/23-2P	HDC15F3P00S-50
M24308/23-3	HDC25F3P000-50
M24308/23-3F	HDC25F3P00C-50
M24308/23-3P	HDC25F3P00S-50
M24308/23-4	HDC37F3P000-50
M24308/23-4F	HDC37F3P00C-50
M24308/23-4P	HDC37F3P00S-50
M24308/23-5	HDC50F3P000-50
M24308/23-5F	HDC50F3P00C-50
M24308/23-5P	HDC50F3P00S-50
M24308/23-7	HDC9F3P000-50-375.10
M24308/23-7F	HDC9F3P00C-50-375.10

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/23-7P	HDC9F3P00S-50-375.10
M24308/23-8	HDC15F3P000-50-375.10
M24308/23-8F	HDC15F3P00C-50-375.10
M24308/23-8P	HDC15F3P00S-50-375.10
M24308/23-9	HDC25F3P000-50-375.10
M24308/23-9F	HDC25F3P00C-50-375.10
M24308/23-9P	HDC25F3P00S-50-375.10
M24308/23-10	HDC37F3P000-50-375.10
M24308/23-10F	HDC37F3P00C-50-375.10
M24308/23-10P	HDC37F3P00S-50-375.10
M24308/23-11	HDC50F3P000-50-375.10
M24308/23-11F	HDC50F3P00C-50-375.10
M24308/23-11P	HDC50F3P00S-50-375.10
M24308/23-13	HDC9F3P000-50-375.2
M24308/23-13F	HDC9F3P00C-50-375.2
M24308/23-13P	HDC9F3P00S-50-375.2
M24308/23-14	HDC15F3P000-50-375.2
M24308/23-14F	HDC15F3P00C-50-375.2
M24308/23-14P	HDC15F3P00S-50-375.2
M24308/23-15	HDC25F3P000-50-375.2
M24308/23-15F	HDC25F3P00C-50-375.2
M24308/23-15P	HDC25F3P00S-50-375.2
M24308/23-16	HDC37F3P000-50-375.2
M24308/23-16F	HDC37F3P00C-50-375.2
M24308/23-16P	HDC37F3P00S-50-375.2
M24308/23-17	HDC50F3P000-50-375.2
M24308/23-17F	HDC50F3P00C-50-375.2
M24308/23-17P	HDC50F3P00S-50-375.2
M24308/23-19	HDC9F3P000-50-375.9
M24308/23-19F	HDC9F3P00C-50-375.9
M24308/23-19P	HDC9F3P00S-50-375.9
M24308/23-20	HDC15F3P000-50-375.9
M24308/23-20F	HDC15F3P00C-50-375.9
M24308/23-20P	HDC15F3P00S-50-375.9
M24308/23-21	HDC25F3P000-50-375.9
M24308/23-21F	HDC25F3P00C-50-375.9
M24308/23-21P	HDC25F3P00S-50-375.9
M24308/23-22	HDC37F3P000-50-375.9
M24308/23-22F	HDC37F3P00C-50-375.9
M24308/23-22P	HDC37F3P00S-50-375.9
M24308/23-23	HDC50F3P000-50-375.9
M24308/23-23F	HDC50F3P00C-50-375.9
M24308/23-23P	HDC50F3P00S-50-375.9
M24308/23-25	HDC9F5B8000-50-376.6
M24308/23-25F	HDC9F5B800C-50-376.6
M24308/23-25P	HDC9F5B800S-50-376.6
M24308/23-26	HDC15F5B8000-50-376.6
M24308/23-26F	HDC15F5B800C-50-376.6
M24308/23-26P	HDC15F5B800S-50-376.6
M24308/23-27	HDC25F5B8000-50-376.6
M24308/23-27F	HDC25F5B800C-50-376.6
M24308/23-27P	HDC25F5B800S-50-376.6
M24308/23-28	HDC37F5B8000-50-376.6
M24308/23-28F	HDC37F5B800C-50-376.6
M24308/23-28P	HDC37F5B800S-50-376.6
M24308/23-29	HDC50F5B8000-50-376.6
M24308/23-29F	HDC50F5B800C-50-376.6
M24308/23-29P	HDC50F5B800S-50-376.6
M24308/23-31	HDC9F5B8000-50
M24308/23-31F	HDC9F5B800C-50
M24308/23-31P	HDC9F5B800S-50
M24308/23-32	HDC15F5B8000-50
M24308/23-32F	HDC15F5B800C-50
M24308/23-32P	HDC15F5B800S-50
M24308/23-33	HDC25F5B8000-50
M24308/23-33F	HDC25F5B800C-50
M24308/23-33P	HDC25F5B800S-50
M24308/23-34	HDC37F5B8000-50
M24308/23-34F	HDC37F5B800C-50
M24308/23-34P	HDC37F5B800S-50
M24308/23-35	HDC50F5B8000-50
M24308/23-35F	HDC50F5B800C-50
M24308/23-35P	HDC50F5B800S-50
M24308/23-37	HDC9F5B8000-50-376.5
M24308/23-37F	HDC9F5B800C-50-376.5
M24308/23-37P	HDC9F5B800S-50-376.5
M24308/23-38	HDC15F5B8000-50-376.5
M24308/23-38F	HDC15F5B800C-50-376.5
M24308/23-38P	HDC15F5B800S-50-376.5
M24308/23-39	HDC25F5B8000-50-376.5

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/23-39F	HDC25F5B800C-50-376.5
M24308/23-39P	HDC25F5B800S-50-376.5
M24308/23-40	HDC37F5B8000-50-376.5
M24308/23-40F	HDC37F5B800C-50-376.5
M24308/23-40P	HDC37F5B800S-50-376.5
M24308/23-41	HDC50F5B8000-50-376.5
M24308/23-41F	HDC50F5B800C-50-376.5
M24308/23-41P	HDC50F5B800S-50-376.5
M24308/23-43	HDC9F5B8000-50-376.2
M24308/23-43F	HDC9F5B800C-50-376.2
M24308/23-43P	HDC9F5B800S-50-376.2
M24308/23-44	HDC15F5B8000-50-376.2
M24308/23-44F	HDC15F5B800C-50-376.2
M24308/23-44P	HDC15F5B800S-50-376.2
M24308/23-45	HDC25F5B8000-50-376.2
M24308/23-45F	HDC25F5B800C-50-376.2
M24308/23-45P	HDC25F5B800S-50-376.2
M24308/23-46	HDC37F5B8000-50-376.2
M24308/23-46F	HDC37F5B800C-50-376.2
M24308/23-46P	HDC37F5B800S-50-376.2
M24308/23-47	HDC50F5B8000-50-376.2
M24308/23-47F	HDC50F5B800C-50-376.2
M24308/23-47P	HDC50F5B800S-50-376.2
M24308/23-49	HDC9F5B8000-50-376.8
M24308/23-49F	HDC9F5B800C-50-376.8
M24308/23-49P	HDC9F5B800S-50-376.8
M24308/23-50	HDC15F5B8000-50-376.8
M24308/23-50F	HDC15F5B800C-50-376.8
M24308/23-50P	HDC15F5B800S-50-376.8
M24308/23-51	HDC25F5B8000-50-376.8
M24308/23-51F	HDC25F5B800C-50-376.8
M24308/23-51P	HDC25F5B800S-50-376.8
M24308/23-52	HDC37F5B8000-50-376.8
M24308/23-52F	HDC37F5B800C-50-376.8
M24308/23-52P	HDC37F5B800S-50-376.8
M24308/23-53	HDC50F5B8000-50-376.8
M24308/23-53F	HDC50F5B800C-50-376.8
M24308/23-53P	HDC50F5B800S-50-376.8
M24308/23-55	HDC9F5B8000-50-376.7
M24308/23-55F	HDC9F5B800C-50-376.7
M24308/23-55P	HDC9F5B800S-50-376.7
M24308/23-56	HDC15F5B8000-50-376.7
M24308/23-56F	HDC15F5B800C-50-376.7
M24308/23-56P	HDC15F5B800S-50-376.7
M24308/23-57	HDC25F5B8000-50-376.7
M24308/23-57F	HDC25F5B800C-50-376.7
M24308/23-57P	HDC25F5B800S-50-376.7
M24308/23-58	HDC37F5B8000-50-376.7
M24308/23-58F	HDC37F5B800C-50-376.7
M24308/23-58P	HDC37F5B800S-50-376.7
M24308/23-59	HDC50F5B8000-50-376.7
M24308/23-59F	HDC50F5B800C-50-376.7
M24308/23-59P	HDC50F5B800S-50-376.7
M24308/23-61	DD15F3P000-50
M24308/23-61F	DD15F3P00C-50
M24308/23-61P	DD15F3P00S-50
M24308/23-62	DD26F3P000-50
M24308/23-62F	DD26F3P00C-50
M24308/23-62P	DD26F3P00S-50
M24308/23-63	DD44F3P000-50
M24308/23-63F	DD44F3P00C-50
M24308/23-63P	DD44F3P00S-50
M24308/23-64	DD62F3P000-50
M24308/23-64F	DD62F3P00C-50
M24308/23-64P	DD62F3P00S-50
M24308/23-65	DD78F3P000-50
M24308/23-65F	DD78F3P00C-50
M24308/23-65P	DD78F3P00S-50
M24308/23-67	DD15F32P000-50
M24308/23-67F	DD15F32P00C-50
M24308/23-67P	DD15F32P00S-50
M24308/23-68	DD26F32P000-50
M24308/23-68F	DD26F32P00C-50
M24308/23-68P	DD26F32P00S-50
M24308/23-69	DD44F32P000-50
M24308/23-69F	DD44F32P00C-50
M24308/23-69P	DD44F32P00S-50
M24308/23-70	DD62F32P000-50
M24308/23-70F	DD62F32P00C-50
M24308/23-70P	DD62F32P00S-50

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

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Q.P.L.
CONNECTORS

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

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.
Positronic RD Series contacts are Q.P.L. approved to MIL-C-39029 per test report number 39029-694-79.

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/23-71	DD78F32P000-50
M24308/23-71F	DD78F32P00C-50
M24308/23-71P	DD78F32P00S-50
M24308/23-73	DD15F4B8000-50
M24308/23-73F	DD15F4B800C-50
M24308/23-73P	DD15F4B800S-50
M24308/23-74	DD26F4B8000-50
M24308/23-74F	DD26F4B800C-50
M24308/23-74P	DD26F4B800S-50
M24308/23-75	DD44F4B8000-50
M24308/23-75F	DD44F4B800C-50
M24308/23-75P	DD44F4B800S-50
M24308/23-76	DD62F4B8000-50
M24308/23-76F	DD62F4B800C-50
M24308/23-76P	DD62F4B800S-50
M24308/23-77	DD78F4B8000-50
M24308/23-77F	DD78F4B800C-50
M24308/23-77P	DD78F4B800S-50
M24308/24-1	HDC9M3P000-50
M24308/24-1F	HDC9M3P00C-50
M24308/24-1P	HDC9M3P00S-50
M24308/24-2	HDC15M3P000-50
M24308/24-2F	HDC15M3P00C-50
M24308/24-2P	HDC15M3P00S-50
M24308/24-3	HDC25M3P000-50
M24308/24-3F	HDC25M3P00C-50
M24308/24-3P	HDC25M3P00S-50
M24308/24-4	HDC37M3P000-50
M24308/24-4F	HDC37M3P00C-50
M24308/24-4P	HDC37M3P00S-50
M24308/24-5	HDC50M3P000-50
M24308/24-5F	HDC50M3P00C-50
M24308/24-5P	HDC50M3P00S-50
M24308/24-7	HDC9M3P000-50-375.10
M24308/24-7F	HDC9M3P00C-50-375.10
M24308/24-7P	HDC9M3P00S-50-375.10
M24308/24-8	HDC15M3P000-50-375.10
M24308/24-8F	HDC15M3P00C-50-375.10
M24308/24-8P	HDC15M3P00S-50-375.10
M24308/24-9	HDC25M3P000-50-375.10
M24308/24-9F	HDC25M3P00C-50-375.10
M24308/24-9P	HDC25M3P00S-50-375.10
M24308/24-10	HDC37M3P000-50-375.10
M24308/24-10F	HDC37M3P00C-50-375.10
M24308/24-10P	HDC37M3P00S-50-375.10
M24308/24-11	HDC50M3P000-50-375.10
M24308/24-11F	HDC50M3P00C-50-375.10
M24308/24-11P	HDC50M3P00S-50-375.10
M24308/24-13	HDC9M3P000-50-375.3
M24308/24-13F	HDC9M3P00C-50-375.3
M24308/24-13P	HDC9M3P00S-50-375.3
M24308/24-14	HDC15M3P000-50-375.3
M24308/24-14F	HDC15M3P00C-50-375.3
M24308/24-14P	HDC15M3P00S-50-375.3
M24308/24-15	HDC25M3P000-50-375.3
M24308/24-15F	HDC25M3P00C-50-375.3
M24308/24-15P	HDC25M3P00S-50-375.3
M24308/24-16	HDC37M3P000-50-375.3
M24308/24-16F	HDC37M3P00C-50-375.3
M24308/24-16P	HDC37M3P00S-50-375.3
M24308/24-17	HDC50M3P000-50-375.3
M24308/24-17F	HDC50M3P00C-50-375.3
M24308/24-17P	HDC50M3P00S-50-375.3
M24308/24-19	HDC9M3P000-50-375.9
M24308/24-19F	HDC9M3P00C-50-375.9
M24308/24-19P	HDC9M3P00S-50-375.9
M24308/24-20	HDC15M3P000-50-375.9
M24308/24-20F	HDC15M3P00C-50-375.9
M24308/24-20P	HDC15M3P00S-50-375.9
M24308/24-21	HDC25M3P000-50-375.9
M24308/24-21F	HDC25M3P00C-50-375.9
M24308/24-21P	HDC25M3P00S-50-375.9
M24308/24-22	HDC37M3P000-50-375.9
M24308/24-22F	HDC37M3P00C-50-375.9
M24308/24-22P	HDC37M3P00S-50-375.9
M24308/24-23	HDC50M3P000-50-375.9
M24308/24-23F	HDC50M3P00C-50-375.9
M24308/24-23P	HDC50M3P00S-50-375.9
M24308/24-25	HDC9M5B8000-50-376.6
M24308/24-25F	HDC9M5B800C-50-376.6
M24308/24-25P	HDC9M5B800S-50-376.6

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/24-26	HDC15M5B8000-50-376.6
M24308/24-26F	HDC15M5B800C-50-376.6
M24308/24-26P	HDC15M5B800S-50-376.6
M24308/24-27	HDC25M5B8000-50-376.6
M24308/24-27F	HDC25M5B800C-50-376.6
M24308/24-27P	HDC25M5B800S-50-376.6
M24308/24-28	HDC37M5B8000-50-376.6
M24308/24-28F	HDC37M5B800C-50-376.6
M24308/24-28P	HDC37M5B800S-50-376.6
M24308/24-29	HDC50M5B8000-50-376.6
M24308/24-29F	HDC50M5B800C-50-376.6
M24308/24-29P	HDC50M5B800S-50-376.6
M24308/24-31	HDC9M5B8000-50
M24308/24-31F	HDC9M5B800C-50
M24308/24-31P	HDC9M5B800S-50
M24308/24-32	HDC15M5B8000-50
M24308/24-32F	HDC15M5B800C-50
M24308/24-32P	HDC15M5B800S-50
M24308/24-33	HDC25M5B8000-50
M24308/24-33F	HDC25M5B800C-50
M24308/24-33P	HDC25M5B800S-50
M24308/24-34	HDC37M5B8000-50
M24308/24-34F	HDC37M5B800C-50
M24308/24-34P	HDC37M5B800S-50
M24308/24-35	HDC50M5B8000-50
M24308/24-35F	HDC50M5B800C-50
M24308/24-35P	HDC50M5B800S-50
M24308/24-37	HDC9M5B8000-50-376.5
M24308/24-37F	HDC9M5B800C-50-376.5
M24308/24-37P	HDC9M5B800S-50-376.5
M24308/24-38	HDC15M5B8000-50-376.5
M24308/24-38F	HDC15M5B800C-50-376.5
M24308/24-38P	HDC15M5B800S-50-376.5
M24308/24-39	HDC25M5B8000-50-376.5
M24308/24-39F	HDC25M5B800C-50-376.5
M24308/24-39P	HDC25M5B800S-50-376.5
M24308/24-40	HDC37M5B8000-50-376.5
M24308/24-40F	HDC37M5B800C-50-376.5
M24308/24-40P	HDC37M5B800S-50-376.5
M24308/24-41	HDC50M5B8000-50-376.5
M24308/24-41F	HDC50M5B800C-50-376.5
M24308/24-41P	HDC50M5B800S-50-376.5
M24308/24-43	HDC9M5B8000-50-376.3
M24308/24-43F	HDC9M5B800C-50-376.3
M24308/24-43P	HDC9M5B800S-50-376.3
M24308/24-44	HDC15M5B8000-50-376.3
M24308/24-44F	HDC15M5B800C-50-376.3
M24308/24-44P	HDC15M5B800S-50-376.3
M24308/24-45	HDC25M5B8000-50-376.3
M24308/24-45F	HDC25M5B800C-50-376.3
M24308/24-45P	HDC25M5B800S-50-376.3
M24308/24-46	HDC37M5B8000-50-376.3
M24308/24-46F	HDC37M5B800C-50-376.3
M24308/24-46P	HDC37M5B800S-50-376.3
M24308/24-47	HDC50M5B8000-50-376.3
M24308/24-47F	HDC50M5B800C-50-376.3
M24308/24-47P	HDC50M5B800S-50-376.3
M24308/24-49	HDC9M5B8000-50-376.8
M24308/24-49F	HDC9M5B800C-50-376.8
M24308/24-49P	HDC9M5B800S-50-376.8
M24308/24-50	HDC15M5B8000-50-376.8
M24308/24-50F	HDC15M5B800C-50-376.8
M24308/24-50P	HDC15M5B800S-50-376.8
M24308/24-51	HDC25M5B8000-50-376.8
M24308/24-51F	HDC25M5B800C-50-376.8
M24308/24-51P	HDC25M5B800S-50-376.8
M24308/24-52	HDC37M5B8000-50-376.8
M24308/24-52F	HDC37M5B800C-50-376.8
M24308/24-52P	HDC37M5B800S-50-376.8
M24308/24-53	HDC50M5B8000-50-376.8
M24308/24-53F	HDC50M5B800C-50-376.8
M24308/24-53P	HDC50M5B800S-50-376.8
M24308/24-55	HDC9M5B8000-50-376.7
M24308/24-55F	HDC9M5B800C-50-376.7
M24308/24-55P	HDC9M5B800S-50-376.7
M24308/24-56	HDC15M5B8000-50-376.7
M24308/24-56F	HDC15M5B800C-50-376.7
M24308/24-56P	HDC15M5B800S-50-376.7
M24308/24-57	HDC25M5B8000-50-376.7
M24308/24-57F	HDC25M5B800C-50-376.7
M24308/24-57P	HDC25M5B800S-50-376.7

MILITARY PART NUMBER	POSITRONIC * PART NUMBER
M24308/24-58	HDC37M5B8000-50-376.7
M24308/24-58F	HDC37M5B800C-50-376.7
M24308/24-58P	HDC37M5B800S-50-376.7
M24308/24-59	HDC50M5B8000-50-376.7
M24308/24-59F	HDC50M5B800C-50-376.7
M24308/24-59P	HDC50M5B800S-50-376.7
M24308/24-61	DD15M3P000-50
M24308/24-61F	DD15M3P00C-50
M24308/24-61P	DD15M3P00S-50
M24308/24-62	DD26M3P000-50
M24308/24-62F	DD26M3P00C-50
M24308/24-62P	DD26M3P00S-50
M24308/24-63	DD44M3P000-50
M24308/24-63F	DD44M3P00C-50
M24308/24-63P	DD44M3P00S-50
M24308/24-64	DD62M3P000-50
M24308/24-64F	DD62M3P00C-50
M24308/24-64P	DD62M3P00S-50
M24308/24-65	DD78M3P000-50
M24308/24-65F	DD78M3P00C-50
M24308/24-65P	DD78M3P00S-50
M24308/24-67	DD15M32P000-50
M24308/24-67F	DD15M32P00C-50
M24308/24-67P	DD15M32P00S-50
M24308/24-68	DD26M32P000-50
M24308/24-68F	DD26M32P00C-50
M24308/24-68P	DD26M32P00S-50
M24308/24-69	DD44M32P000-50
M24308/24-69F	DD44M32P00C-50
M24308/24-69P	DD44M32P00S-50
M24308/24-70	DD62M32P000-50
M24308/24-70F	DD62M32P00C-50
M24308/24-70P	DD62M32P00S-50
M24308/24-71	DD78M32P000-50
M24308/24-71F	DD78M32P00C-50
M24308/24-71P	DD78M32P00S-50
M24308/24-73	DD15M4B8000-50
M24308/24-73F	DD15M4B800C-50
M24308/24-73P	DD15M4B800S-50
M24308/24-74	DD26M4B8000-50
M24308/24-74F	DD26M4B800C-50
M24308/24-74P	DD26M4B800S-50
M24308/24-75	DD44M4B8000-50
M24308/24-75F	DD44M4B800C-50
M24308/24-75P	DD44M4B800S-50
M24308/24-76	DD62M4B8000-50
M24308/24-76F	DD62M4B800C-50
M24308/24-76P	DD62M4B800S-50
M24308/24-77	DD78M4B8000-50
M24308/24-77F	DD78M4B800C-50
M24308/24-77P	DD78M4B800S-50
M24308/25-6	D00000E20
M24308/25-6F	D00000E20-462.31
M24308/25-6P	D00000E20-462.23
M24308/26-1	D00000T20-462.32
M24308/26-1F	D00000T20-462.33
M24308/26-1P	D00000T20-462.7
M24308/26-2	D00000T30-462.32
M24308/26-2F	D00000T30-462.33
M24308/26-2P	D00000T30-462.7
CRIMP CONTACTS	
M39029/57-354	FC8022D-50
M39029/58-360	MC8022D-50
M39029/63-368	FC6020D-50
M39029/64-369	MC6020D-50
METAL HOODS	
M85049/48-1-3F	RD25000H00
M85049/48-1-4F	RD37000H00
M85049/48-1-5F	RD50000H00

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

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