



PDF CATALOG OF INDUSTRIAL AND MILITARY APPLICATION SUBMINIATURE-D CONNECTORS

NOTE: In order to reduce download times, we have removed the graphically intense catalog cover from this PDF catalog. If you are using a printed version in conjunction with this PDF version, revision levels can be found on the inside front cover of the printed version and on page 2 of this PDF version.

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 TORQUE | | | | | | | | |
|--|-------------------------|--------------------|---------------------------|--------------------|---------|--|--|--|
| МАТ | MATERIAL Nm in-lb in-oz | | | | | | | |
| Phos. | . Bronze | 0.90 | 8.0 | 128 | | | | |
| B | rass | 0.68 | 6.0 | 96 | | | | |
| Alur | minum | 0.45 | 4.0 | 64 | | | | |
| N | ylon | 0.11 | 1.0 | 16 | | | | |
| hese torque values are | ا applicable e | for threads only a | ı nd do not apply to h | ardware assemblies | s. Thes | | | |

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.

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Positronic Industries' FEDERAL SUPPLY CODE FOR MANUFACTURERS is number 28198.

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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.

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.

HARMO-D CONNECTORS 47-52

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.

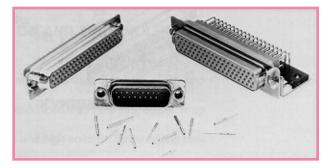
PCD Series. Machined contact, compliant termination, repairable, 7.5 ampere nominal rating. Five connector variants, 9 through 50 contacts. Professional quality connectors, conform to IEC 807-2, Performance Level Two.

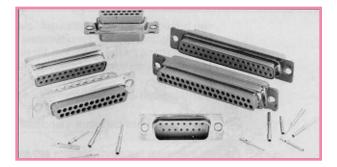
HIGH DENSITY PRESS-FIT CONNECTORS...... 58-62

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

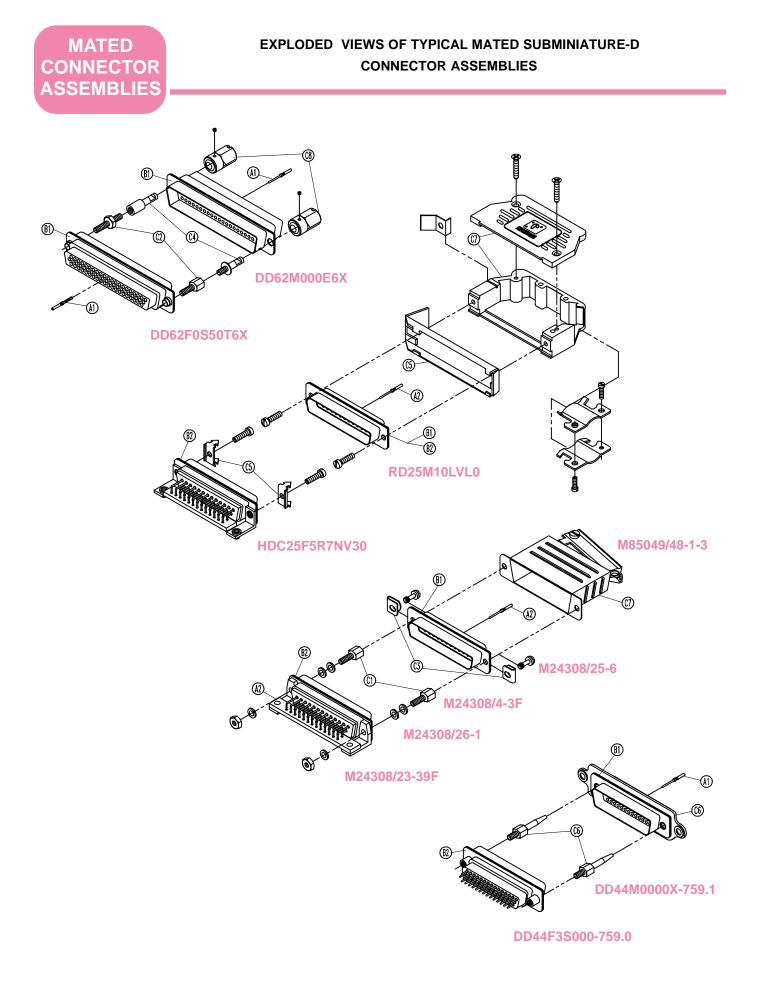




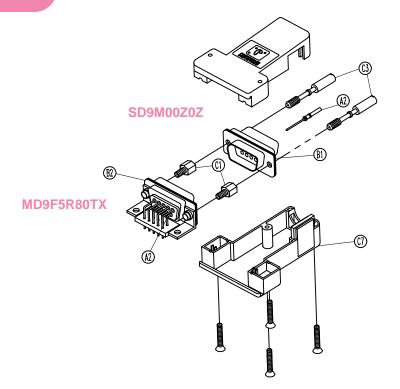












CONNECTOR COMPONENT DESCRIPTION AND TERMINOLOGY

- 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 nonpolarized 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.

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

Melo-D/Euro-D **Series**

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

IEC Publication 807-2 Performance Level Two

U.L. Recognized File #E49351

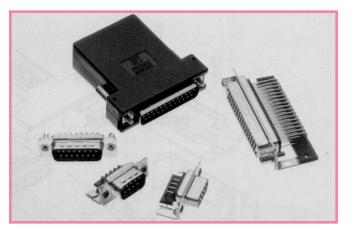
CSA Recognized File #LR54219

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 con-tact 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

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 termina-



tions 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 com-patible 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.

Female contact

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 dichro- |

mate seal.

MECHANICAL CHARACTERISTICS: Fixed Contacts: Size 20 contact, male contact - 0.040 inch 1 02mm) diameter

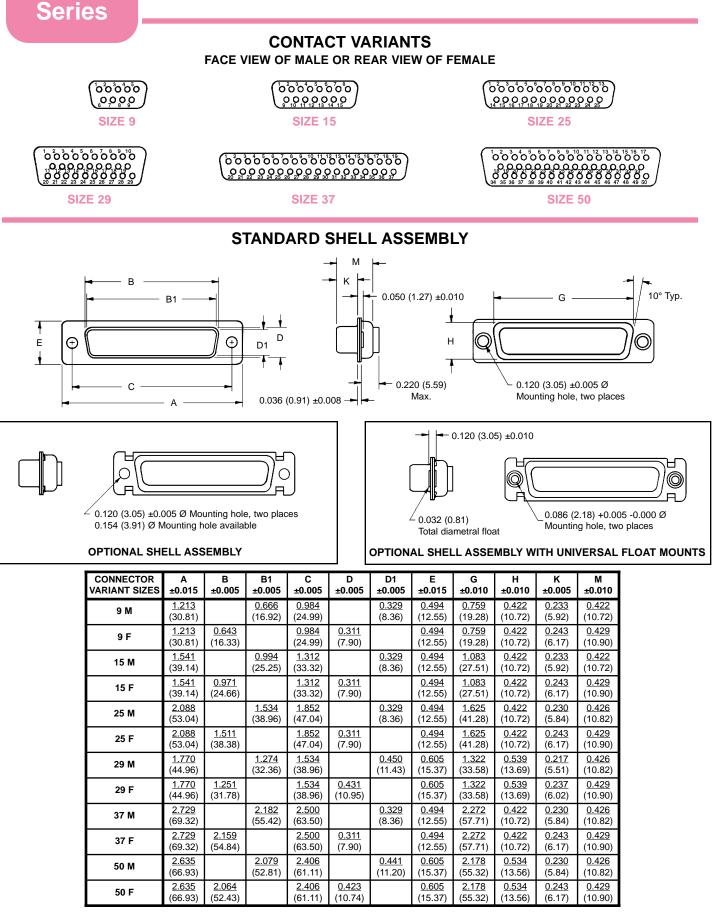
| | (1.02mm) diameter. Female contact - rugged open entry design. |
|--|--|
| Contact Retention In Insulator: | 6 lbs. (27N) |
| Resistance To Solder Iron Heat: Melo-D | 500°F (260°C) for 10 seconds duration per IEC 512-6. |
| Contact Terminations: | Solder cup contacts – 0.042 inch (1.06mm) minimum 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. |
| 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 | I: Rapid installation push-on fasteners and threaded posts. |
| Locking Systems: | Jackscrews and vibration locking systems. |
| Mechanical Operations: | 500 operations minimum per IEC 512-5. |

ELECTRICAL CHARACTERISTICS:

| Contact Current Rating: | 7.5 amperes nominal. | | Footprints. |
|--|----------------------|---------------------------|---|
| Initial Contact Resistance: | 0.008 ohms maximum. | Shells: | Male shells may be dimpled ground paths. |
| Insulator Resistance: | 5 G ohms. | Polarization: | Trapezoidally shaped shells a |
| Proof Voltage: | 1000 V r.m.s. | | jackscrews. |
| Clearance and Creepage Distance (minimum): | 0.039 inch (1.0mm). | Mounting To Angle Bracket | s: Jackscrews and riveted fast 0.120 inch (3.05mm) clearan threaded riveted fasteners |
| Working Voltage: | 300 V r.m.s. | | threads and nylon lock insert |
| CLIMATIC CHARAC [*] Temperature Range: | -55°C to +125°C. | Mounting To Printed Board | d: Rapid installation push-on fa threaded posts. |
| Damp Heat, Steady State: | 10 days. | Locking Systems: | Jackscrews and vibration tems. |
| | 10 44,0. | | |

PROFESSIONAL QUALITY, FIXED CONTACT, SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

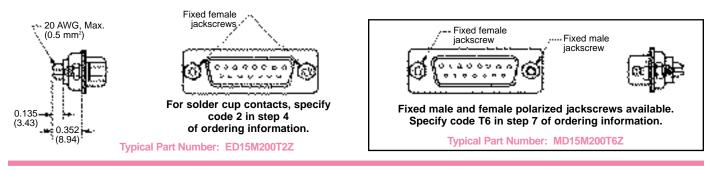


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

MD/ED

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

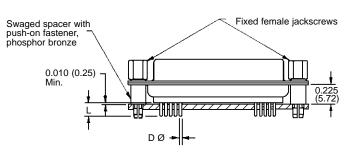
SOLDER CUP CONNECTOR



STRAIGHT PRINTED BOARD MOUNT CONNECTOR

| CODE NUMBER | L | DØ | | |
|----------------------------|------------------------|------------------------|--|--|
| 3 | <u>0.150</u> (3.81) | <u>0.028</u> (0.71) | | |
| 32 | <u>0.375</u> (9.53) | <u>0.028</u> (0.71) | | |
| 36 | <u>0.236</u> (5.99) | <u>0.024</u> (0.61) | | |
| For streight printed board | | | | |

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

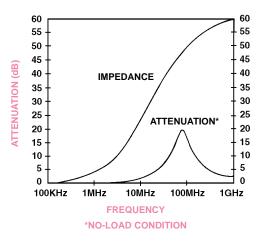


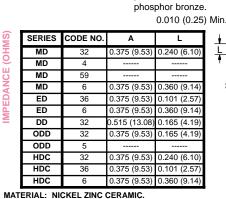
push-on fastener

Typical Part Number: MD25F3S60T0

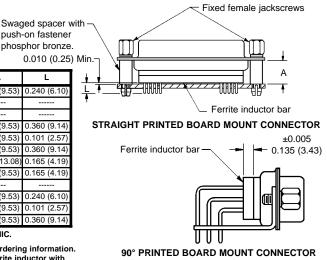
FERRITE INDUCTOR BAR FOR EMI/RFI NOISE SUPPRESSION

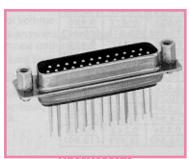
FILTERING CHARACTERISTICS





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

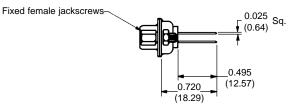




MD25M6S50T0



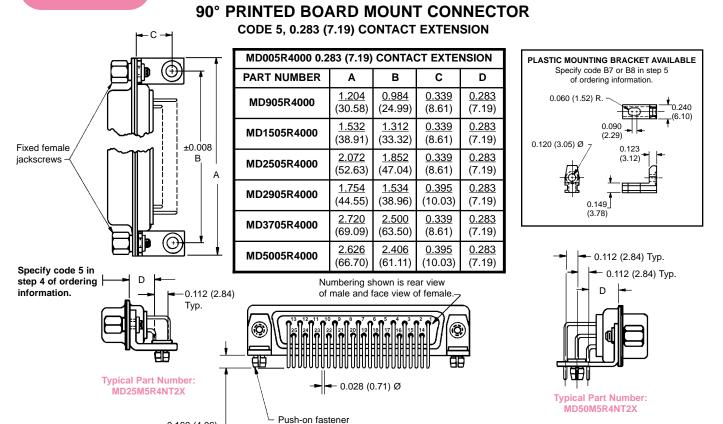
For wrap post contacts, specify code 6 in step 4 of ordering information.



Typical Part Number: MD15F600T20

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

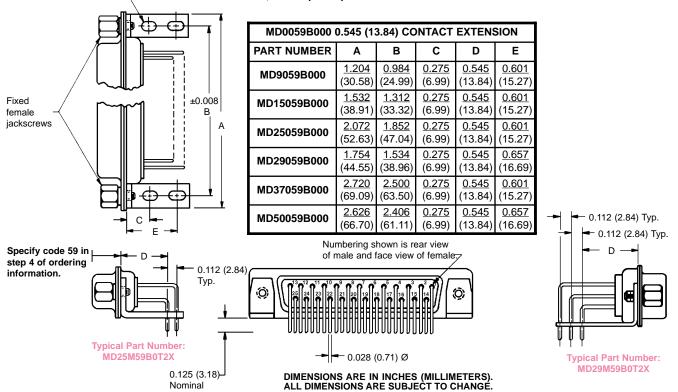
0.125 (3.18) X 0.233 (5.92) Oval hole typ.

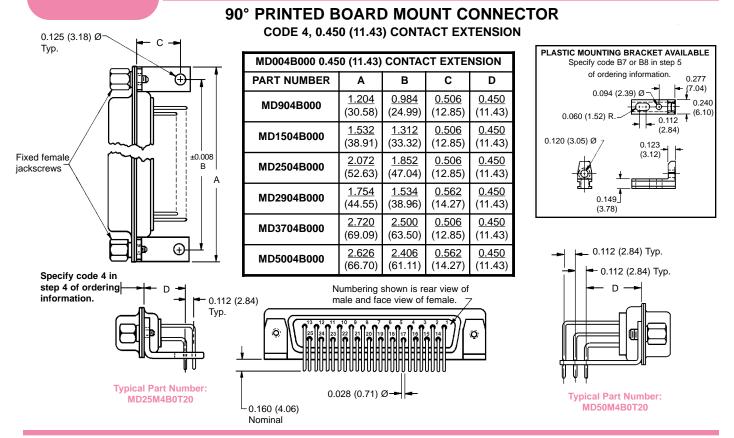


0.160 (4.06) Nominal

90° PRINTED BOARD MOUNT CONNECTOR CODE 59, 0.545 (13.84) CONTACT EXTENSION

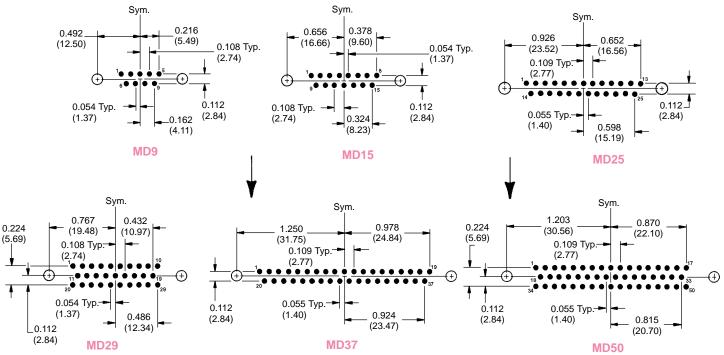
beryllium copper





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.

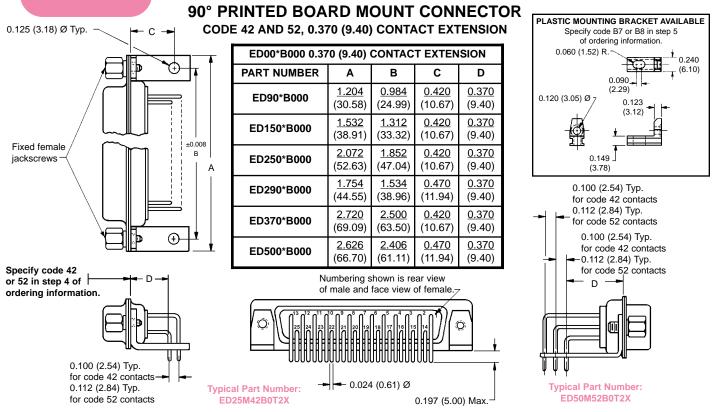


Suggest 0.045 (1.14) Ø hole for contact termination positions.

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

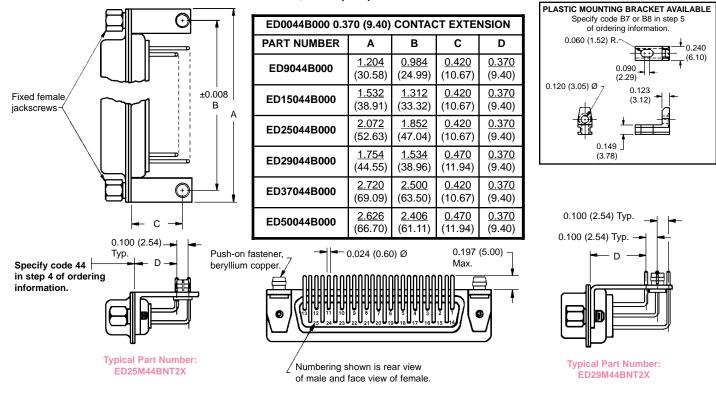
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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



90° PRINTED BOARD MOUNT CONNECTOR





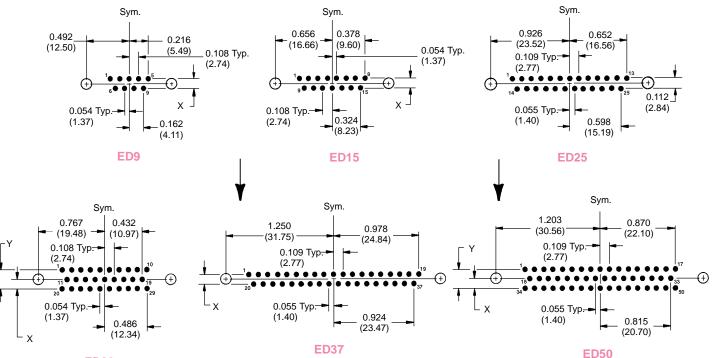
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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

90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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

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



ED29

| CODE NUMBER | х | Y |
|----------------|------------------------|------------------------|
| 36 | <u>0.112</u> (2.84) | <u>0.224</u> (5.69) |
| 42 | <u>0.100</u> (2.54) | <u>0.200</u> (5.08) |
| 44 | <u>0.100</u> (2.54) | <u>0.200</u> (5.08) |
| 52 | <u>0.112</u> (2.84) | <u>0.224</u> (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.

59 and 6 only.

ORDERING INFORMATION – CODE NUMBERING SYSTEM MELO-D SERIES STEP 1 2 3 4 5 6 7 8 9 MD 25 Х F 59 **R7** Ν Т6 **STEP 9 - Special Options Consult Sales Department STEP 1 - Basic Series STEP 8 - Shell Options MD** Series 0 - Zinc Plated, with Dichromate Seal. STEP 2 - Tin Plated. **MD Series Connector Variants** Z - Tin Plated and Dimpled 9, 15, 25, 29, 37, 50 *STEP 7 - Locking and Polarizing Systems **STEP 3 - Connector Gender** 0 None. _ M – F – Male V3 Lock Tab, connector front panel mounted. Female V5 Lock Tab, connector rear panel mounted. _ VL Lock Lever, used with Hoods only. STEP 4 - Type of Contacts Fixed Female Jackscrews. _ Solder cup. T2 **Fixed Female Jackscrews** 2 3 Solder, Straight Printed Board Mount Τ6 _ Fixed Male and Female Polarized **Specify Complete Connector** with 0.150 (3.81) Tail Length. Jackscrews. Solder, Straight Printed Board Mount with 0.375 (9.52) Tail Length. Solder, 90° Printed Board Mount with By Following Rotating Male Jackscrews. 32 E2 _ Rotating Male Screw Locks. Steps 1 through 9 E6 Rotating Male and Female Polarized 4 Insert "0" When Step Is Not Used 0.450 (11.43) Contact Extension. Solder, 90° Printed Board Mount with Jackscrews 5 *STEP 6 - Hoods and Push-On Fasteners 0.283 (7.19) Contact Extension. Solder, 90° Printed Board Mount with 59 0 None. _ 0.545 (13.84) Contact Extension. – Wrap Post. J Hood, Top Opening, Plastic. 6 _ Hood, Side Opening, Plastic. L Y Hood, Top Opening, Plastic with Rotating Male Jackscrews. Available in size 50 *STEP 5 - Mounting Style only Mounting Hole, 0.120 (3.05) Ø. Bracket, Mounting, 90° Metal. Bracket, Mounting, 90° Metal with Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 50 only. 0 Y6 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. Hood, Top Opening, Metal. Available in size 15, 25, 37, and 50 only. B3 Ζ Cross Bar. Bracket, Mounting, 90° Plastic. Bracket, Mounting, 90° Plastic with B7 – н _ Hood, EMI/RFI, Metal. Available in size 9, 15, 25, 37, and 50 only. **B**8 G Hood, Top or Side Opening, Plastic. Available in size 9, 15, and 25 only. Push-on Fastener, for 90° Mounting Brackets. Cross Bar. Ŵ _ Float Mounts, Universal. Ν _ 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 **F _ Ferrite inductor. **Q Ferrite inductor for use with Push-on Fastener and 90° Mounting Brackets. _ Jackscrews. Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female R2 – EURO-D SERIES Jackscrews with Cross Bar. STEP 9 1 2 3 4 5 6 7 8 Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 (3.05) Ø Mounting R3 – ED 25 F 42 **R7** Ν T2 0 Hole. Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads. Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut. Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 (3.05) Ø Mounting Hole with Cross Bar. Bracket, Mounting, 90° Metal, Swaged to **STEP 9 - Special Options** R4 -STEP 1 - Basic Series **Consult Sales Department ED** Series R5 -**STEP 8 - Shell Options** STEP 2 -R6 – 0 - Zinc Plated, with Dichromate ED Series Connector Variants Seal. 9, 15, 25, 29, 37, 50 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar. х - Tin Plated. R7 – Z - Tin Plated and Dimpled. **STEP 3 - Connector Gender** Bracket, Mounting, 90° Metal, Swaged to R8 -STEP 7 - Locking and Polarizing M – Male F – Fema Connector with 4-40 Locknut with Cross Bar. F Female Systems S _ Swaged Spacer, 4-40 Threads, 0.225 (5.71) Length. Refer to MD Series Step 7 STEP 4 - Type of Contacts Swaged Spacer, 4-40 Threads, 0.125 (3.18) S2 -- Solder cup. Length. *STEP 6 - Hoods and Push-On 36 – Solder, Straight Printed Board Mount with 0.236 (5.99) Tail Length. Swaged Locknut, 4-40 Threads. **S**5 Fasteners Swaged Spacer with Push-on Fastener, S6 Refer to MD Series Step 6 4-40 Threads, 0.225 (5.71) Length. Solder, 90° Printed Board Mount with 42 Swaged Spacer with Push-on Fastener for 0.370 (9.40) Contact Extension. S7 -*For additional information on accessories use with Ferrite Inductor, 4-40 Threads, 44 Solder, Inverted 90° Printed Board listed in steps 5, 6 and 7, see Accessory 0.375 (9.53) Length. Mount with 0.370 (9.40) Contact Catalog. Extension. *For additional information on accessories listed in Solder, 90° Printed Board Mount with 52 -**Ferrite inductor is available on contact 0.370 (9.40) Contact Extension. steps 5, 6 and 7, see Accessory Catalog. types 36 only. *STEP 5 - Mounting Style **Ferrite inductor is available on contact types 32, 4,

Refer to MD Series Step 5



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.

release from rear face of insulator. Size

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 nick- el plate. |
| Hoods: | Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal. |

MECHANICAL CHARACTERISTICS: Removable Contacts: Insert contact to rear face of insulator and

| | 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 polar- ized 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. |

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. |

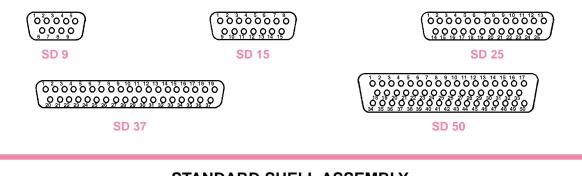
CLIMATIC CHARACTERISTICS:

Temperature Range:-55°C toDamp Heat, Steady State:10 days.

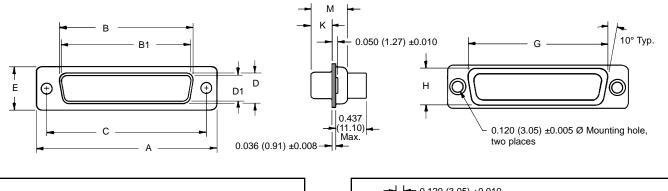
-55°C to +125°C. 10 days

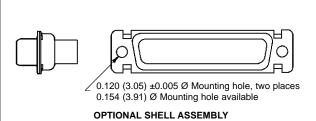


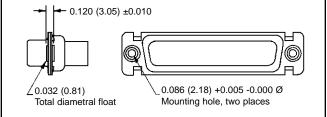
CONTACT VARIANTS FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY







OPTIONAL SHELL ASSEMBLY WITH UNIVERSAL FLOAT MOUNTS

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

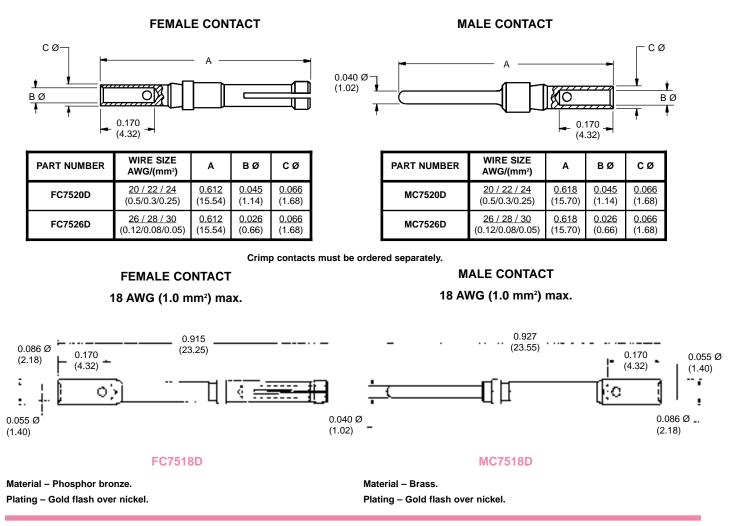
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.



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

CRIMP CONTACTS

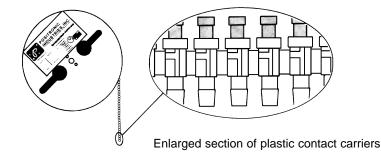
CLOSED CRIMP BARREL



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.

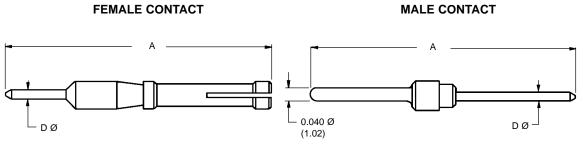
All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC7526DR for a male contact and FC7520DR for a female contact.



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



STRAIGHT PRINTED BOARD MOUNT CONTACTS

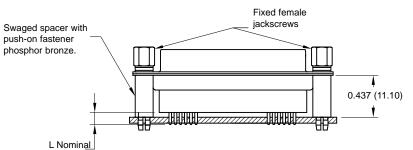


Straight printed board mount contacts are supplied in connector.

| CODE NUMBER | L | DØ | Α |
|----------------|--------------|--------------|--------------|
| 3 | <u>0.125</u> | <u>0.024</u> | <u>0.772</u> |
| | (3.18) | (0.61) | (19.61) |
| 32 | <u>0.188</u> | <u>0.024</u> | <u>0.835</u> |
| | (4.78) | (0.61) | (21.21) |

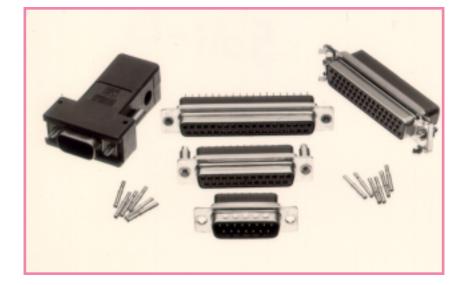
| CODE NUMBER | L | DØ | A |
|----------------|--------------|--------------|--------------|
| 3 | <u>0.125</u> | <u>0.024</u> | <u>0.768</u> |
| | (3.18) | (0.61) | (19.51) |
| 32 | <u>0.188</u> | <u>0.024</u> | <u>0.831</u> |
| | (4.78) | (0.61) | (21.11) |

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



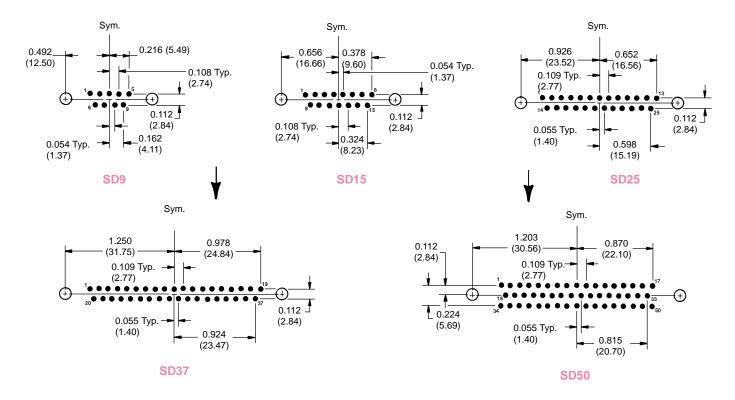
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE. Typical Part Number: SD37F3S60T2X

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



STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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



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

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





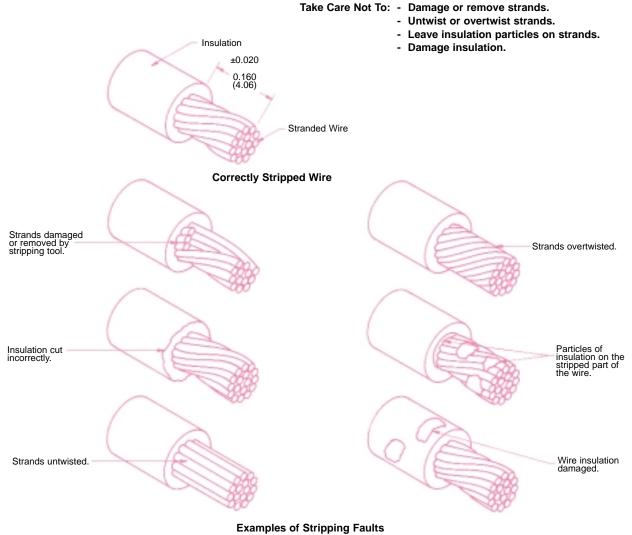


SD25F3S600X

CRIMPING INFORMATION FOR RD AND SD SERIES CRIMP CONTACTS

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

Step 1: Strip wire to indicated length.

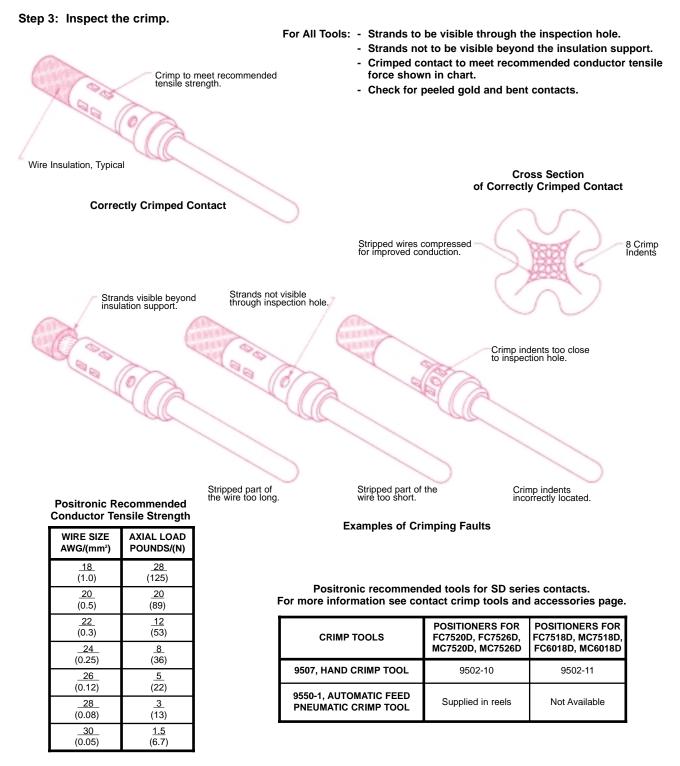


| Step 2: | Crimp wire to contact. | |
|---------|------------------------|--|

| Crimp wire to contact. | • | | Place contact into crimping tool. |
|------------------------|----------------------------------|-----|--|
| | | C | 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. |
| | | - F | Remove the crimped contact. |
| For Auton | natic Feed Pneumatic Crimp Tool: | | nsert the wire into the contact, positioned in the crimp tool by the plastic carrier. |
| | | | Depress the activating device of the crimping cool to start the crimping cycle. |
| | | - F | Remove the crimped contact. |
| | | | |



CRIMPING INFORMATION FOR RD AND SD CRIMP CONTACTS

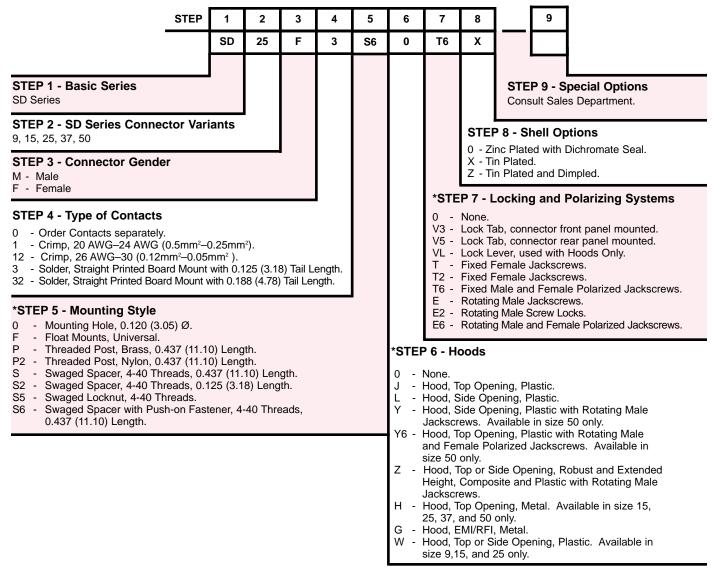


Conductor tensile strength values are derived using silver-tin plated copper wires.

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

ORDERING INFORMATION - CODE NUMBERING SYSTEM

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



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

SD SERIES CRIMP CONTACT TERMINATIONS

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



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

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp on wire sizes 20 AWG (0.5mm²) through 32 AWG (0.03mm²). 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.

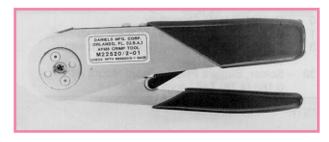


MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

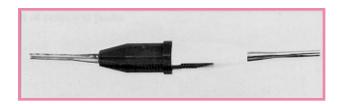
This miniature 8 step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG ($1.0mm^2$) through 32 AWG ($0.03mm^2$).

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



INSERTION/REMOVAL TOOL (M81969/1-02)

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



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

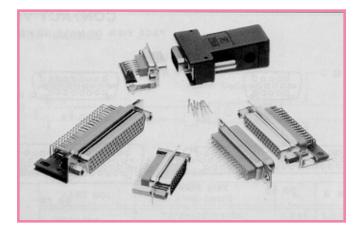
U.L. Recognized File #E49351

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 ter-minations 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 con- tacts – 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 nick- el plate. |
| Jackscrew Systems: | Steel with zinc plate and dichromate seal, or clear zinc plate. |
| Hoods: | Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal. |

ELECTRICAL CHARACTERISTICS:

| Contact Current Rating: | 5 amperes nominal. |
|---|----------------------|
| Initial Contact Resistance: | 0.005 ohms maximum. |
| Proof Voltage: | 1000 V r.m.s. |
| Insulator Resistance: | 5 G ohms. |
| Clearance and Creepage Distance (minimum): | 0.042 inch (1.06mm). |
| Working Voltage: | 300 V r.m.s. |

CLIMATIC CHARACTERISTICS:

Temperature Range: Damp Heat, Steady State: 21 days.

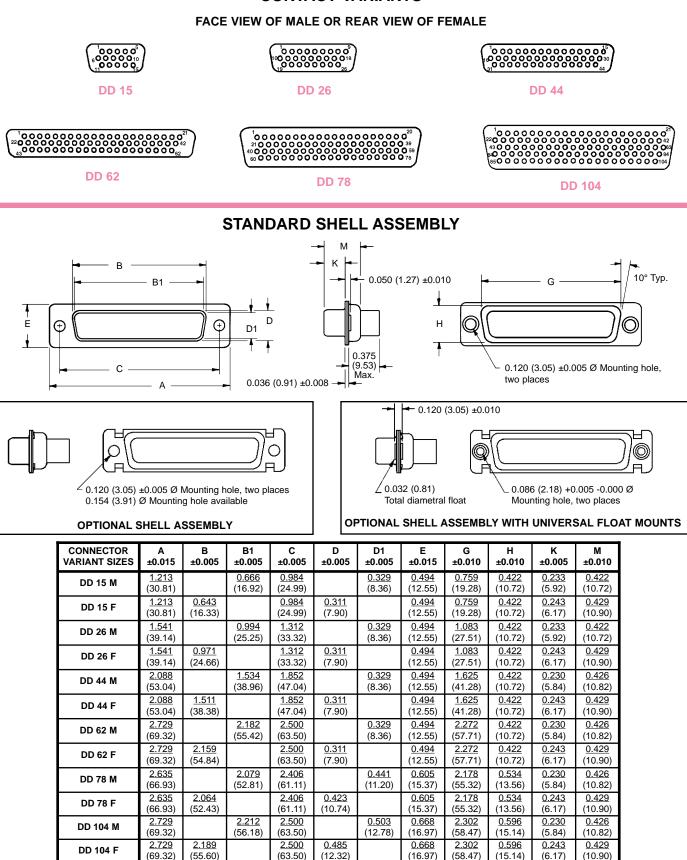
-55°C to +125°C.

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 termi- nations. |
| Shells: | Male shells may be dimpled for EMI/ESD ground paths. |
| Polarization: | Trapezoidally shaped shells and polar- ized 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. |



CONTACT VARIANTS



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

Series

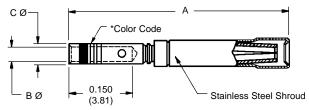


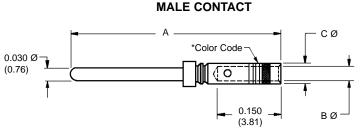
MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)





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

| PART NUMBER | WIRE SIZE AWG/(mm²) | Α | ВØ | СØ |
|----------------|-------------------------------|--------------|--------------|--------------|
| FC8022D | <u>22 / 24 / 26 / 28 / 30</u> | <u>0.518</u> | <u>0.035</u> | <u>0.047</u> |
| | (0.3/0.25/0.12/0.08/0.05) | (13.16) | (0.89) | (1.19) |
| *M39029/57-354 | <u>22 / 24 / 26 / 28</u> | <u>0.518</u> | <u>0.035</u> | <u>0.047</u> |
| | (0.3/0.25/0.12/0.08) | (13.16) | (0.89) | (1.19) |

| PART NUMBER | WIRE SIZE AWG/(mm²) | Α | ВØ | CØ |
|----------------|-------------------------------|--------------|--------------|--------------|
| MC8022D | <u>22 / 24 / 26 / 28 / 30</u> | <u>0.531</u> | <u>0.035</u> | <u>0.047</u> |
| | (0.3/0.25/0.12/0.08/0.05) | (13.49) | (0.89) | (1.19) |
| *M39029/58-360 | <u>22 / 24 / 26 / 28</u> | <u>0.531</u> | <u>0.035</u> | <u>0.047</u> |
| | (0.3/0.25/0.12/0.08) | (13.49) | (0.89) | (1.19) |

Material - 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. 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

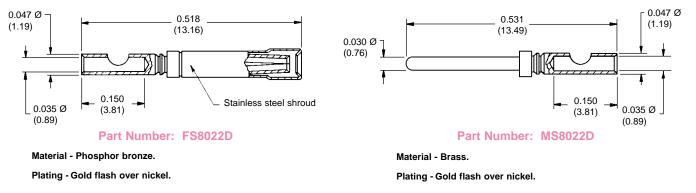
specification contacts.

For contact crimp tool information see page 29.

SOLDER CUP CONTACTS

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

MALE CONTACT

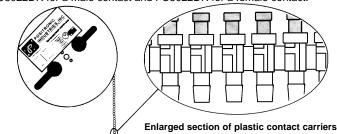


Solder contacts may be supplied kitted with connector or ordered separately.

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.

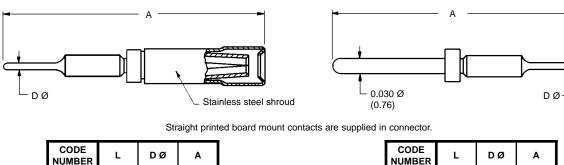


Fixed female jackscrews

STRAIGHT PRINTED BOARD MOUNT CONTACTS

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

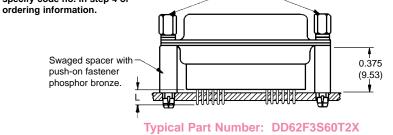
MALE CONTACT



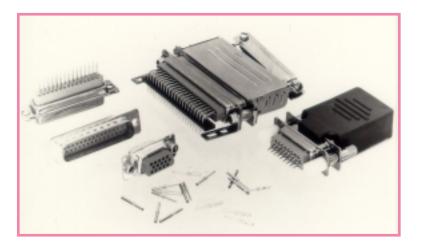
| NUMBER | L | שט | А |
|--------|--------------|--------------|--------------|
| 3 | <u>0.150</u> | <u>0.020</u> | <u>0.725</u> |
| | (3.81) | (0.51) | (18.42) |
| 32 | <u>0.300</u> | <u>0.020</u> | <u>0.865</u> |
| | (7.62) | (0.51) | (21.97) |

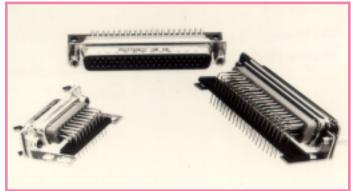
| CODE NUMBER | L | DØ | Α |
|----------------|--------------|--------------|--------------|
| 3 | <u>0.150</u> | <u>0.020</u> | <u>0.737</u> |
| | (3.81) | (0.51) | (18.72) |
| 32 | <u>0.300</u> | <u>0.020</u> | <u>0.877</u> |
| | (7.62) | (0.51) | (22.28) |

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



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



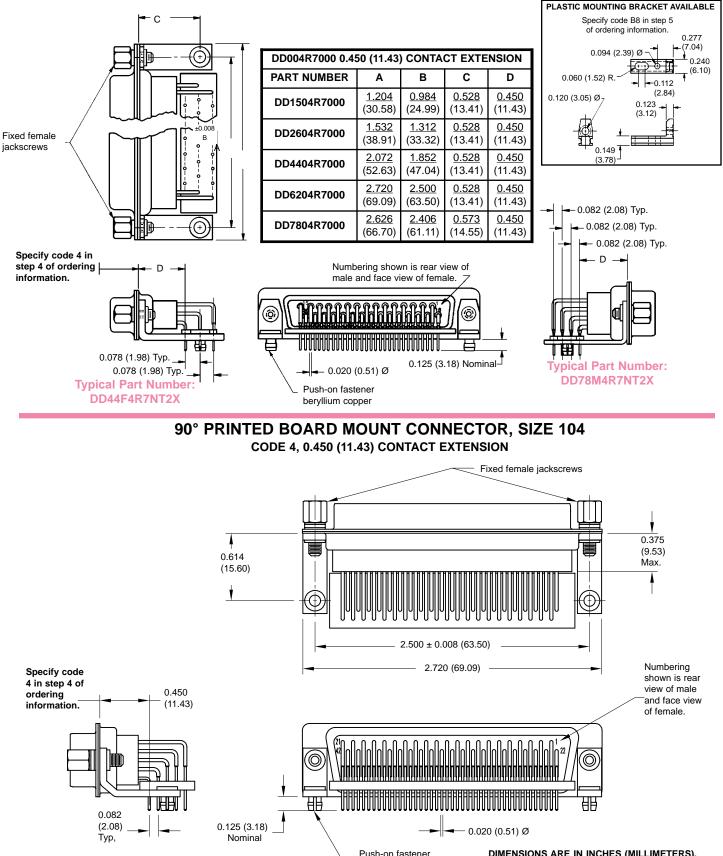




MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.450 (11.43) CONTACT EXTENSION

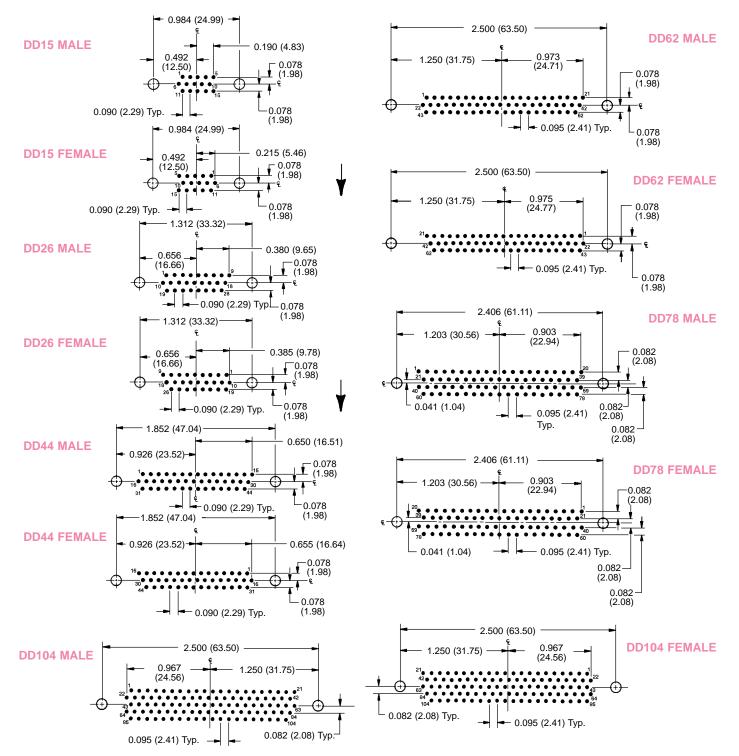


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.



90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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



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.

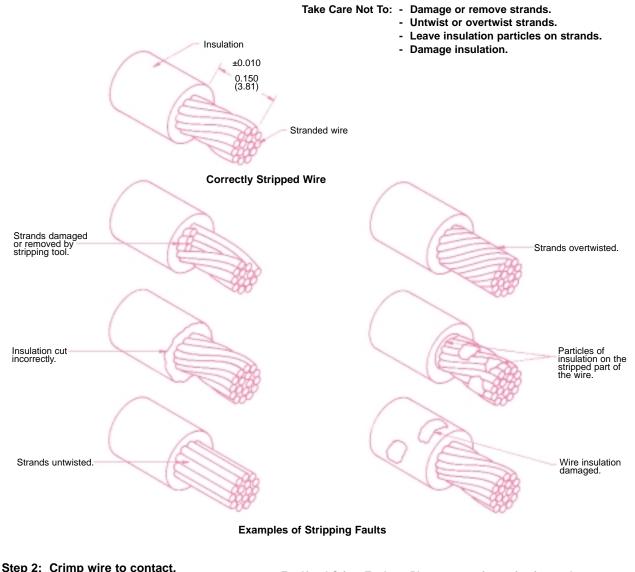
DD

Series

CRIMPING INFORMATION FOR DD AND ODD SERIES CRIMP CONTACTS

USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

Step 1: Strip wire to indicated length.



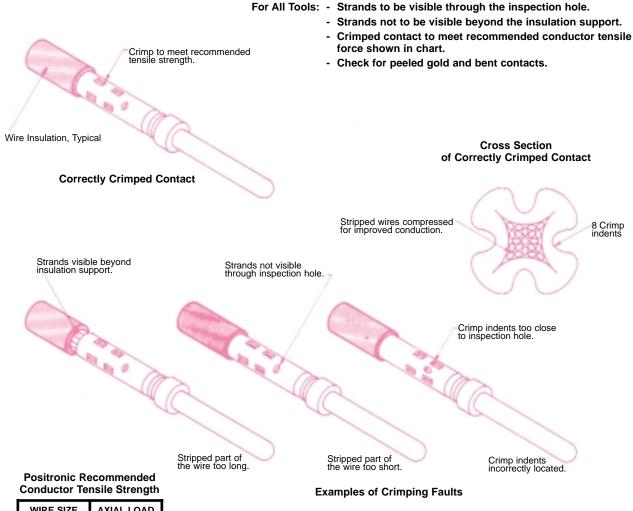
| Step 2. Chinp wire to ca | crimp wire to contact. | For Hand Crimp Tool: | | Place contact into crimping tool. Insert wire into contact. |
|--------------------------|------------------------|--------------------------------------|---|--|
| | | | - | Center contact by slowly closing the crimping tool 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.



CRIMPING INFORMATION FOR DD AND ODD CRIMP CONTACTS

Step 3: Inspect the crimp.



| WIRE SIZE | AXIAL LOAD |
|------------------------|---------------|
| AWG/(mm ²) | POUNDS/(N) |
| <u>22</u> | <u>12</u> |
| (0.3) | (53) |
| <u>24</u> | <u>8</u> |
| (0.25) | (36) |
| <u>26</u> | <u>5</u> |
| (0.12) | (22) |
| <u>_28</u> (0.08) | <u>3</u> (13) |
| <u>30</u> | <u>1.5</u> |
| (0.05) | (4.4) |

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

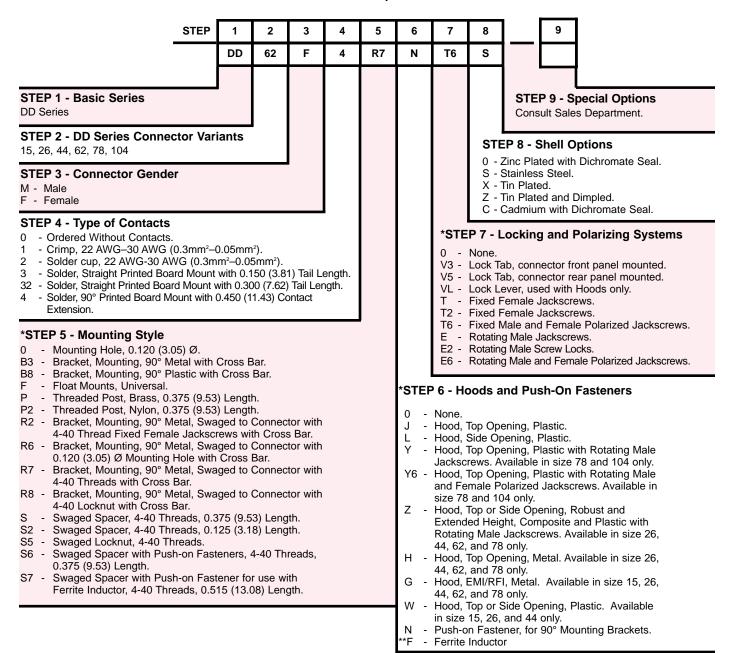
| CRIMP TOOLS | POSITIONERS FOR FC8022D | POSITIONERS FOR MC8022D |
|---|----------------------------|----------------------------|
| 9507, HAND CRIMP TOOL | 9502-3 | 9502-4 |
| 9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL | Supplied in reels | Supplied in reels |

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

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

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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



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

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

DD Series

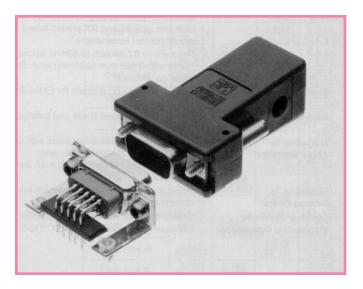
MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED Part No. 9550-1

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

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



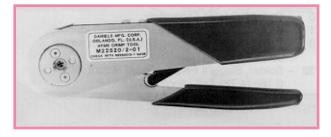


MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

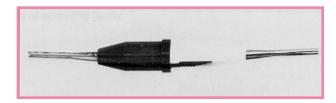
This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG (0.5mm²) through 32 AWG (0.03mm²).

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



INSERTION/REMOVAL TOOL (M81969/1-04)

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



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

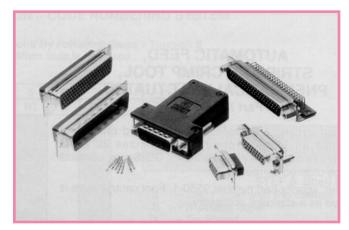
CSA Recognized File #LR54219

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



MECHANICAL CHARACTERISTICS:

Removable Contacts:

Fixed Contacts, Board Mounted Applications:

Contact Terminations:

Contact Retention

In Insulator:

Entry" design. Female, fixed contacts for board mounted applications feature both rugged Robi-D design and standard open entry design, available to customer requirements.

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

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

ODD SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

| Insulators: | Glass filled polyester per MIL-M-24519, UL 94V-0, black color. | |
|-------------------------|---|--|
| Contacts: | Male contacts – precision machined brass alloy or phosphor bronze. | |
| | Female contacts – precision machined high tensile phosphor bronze. | |
| Contact Plating: | Professional quality – gold flash over nick- el 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 nick- el plate. | |
| Push-On Fasteners: | Phosphor bronze or beryllium copper with tin plate. | |
| Jackscrew Systems: | Steel with zinc plate and dichromate seal, or clear zinc plate. | |
| Hoods: | Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal. | |

ELECTRICAL CHARACTERISTICS:

| Contact Current Rating: | 5 amperes nominal. |
|---|---------------------|
| Initial Contact Resistance: | 0.010 ohms maximu |
| 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. |

0.010 ohms maximum. 1000 V r.m.s. 5 G ohms. 0.042 inch (1.06mm). 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: Damp Heat, Steady State:

-55°C to +125°C. 10 days.

Shells:

Polarization:

Mounting To Angle Brackets:

Mounting To Printed Board:

Locking Systems:

Mechanical Operations:

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.

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

9 lbs. (40 N).

Closed barrel crimp, wire sizes 22 AWG (0.3mm²) through 30 AWG (0.05mm²). Solder cup wire, 0.035 inch (0.89mm) hole diameter for 22 AWG (0.3mm²) wire maximum.

0.020 inch (0.5mm) or 0.030 inch (0.76mm) diameter straight and 90° printed board mount contact terminations

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.

Male shells may be dimpled for EMI/ESD ground paths.

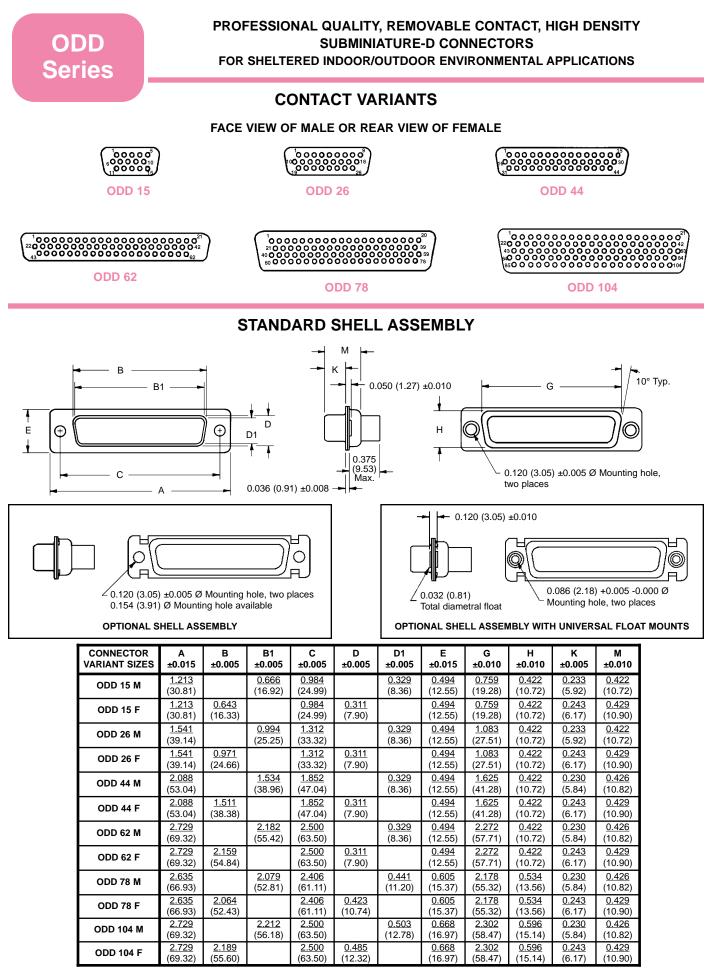
Trapezoidally shaped shells and polarized jackscrews.

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

Rapid installation push-on fasteners and mounting posts.

Jackscrews and vibration locking sys-

500 operations minimum per IEC 512-5.



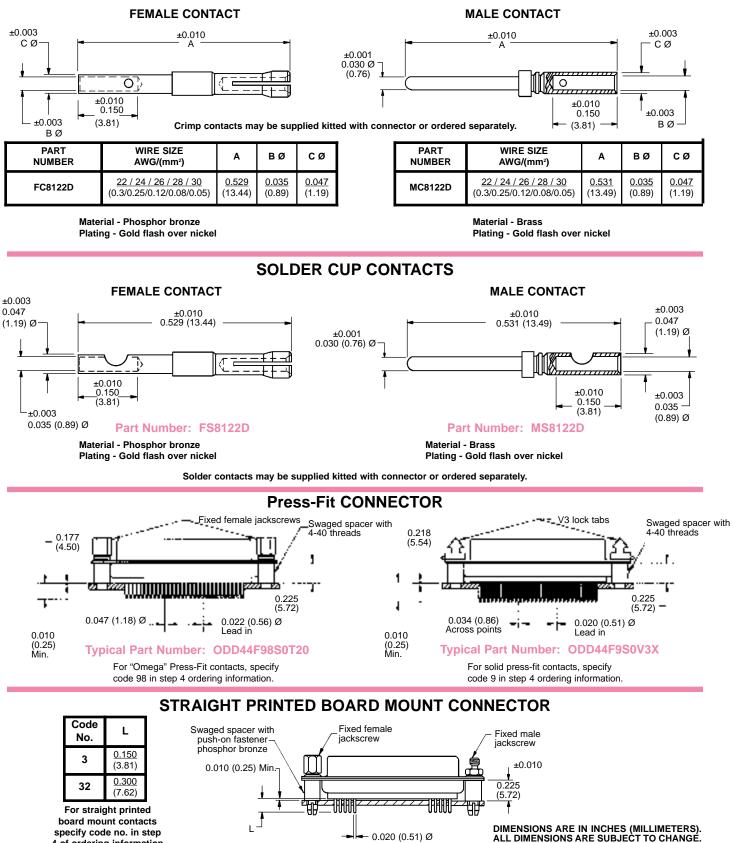
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.



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

CRIMP CONTACTS

CLOSED CRIMP BARREL

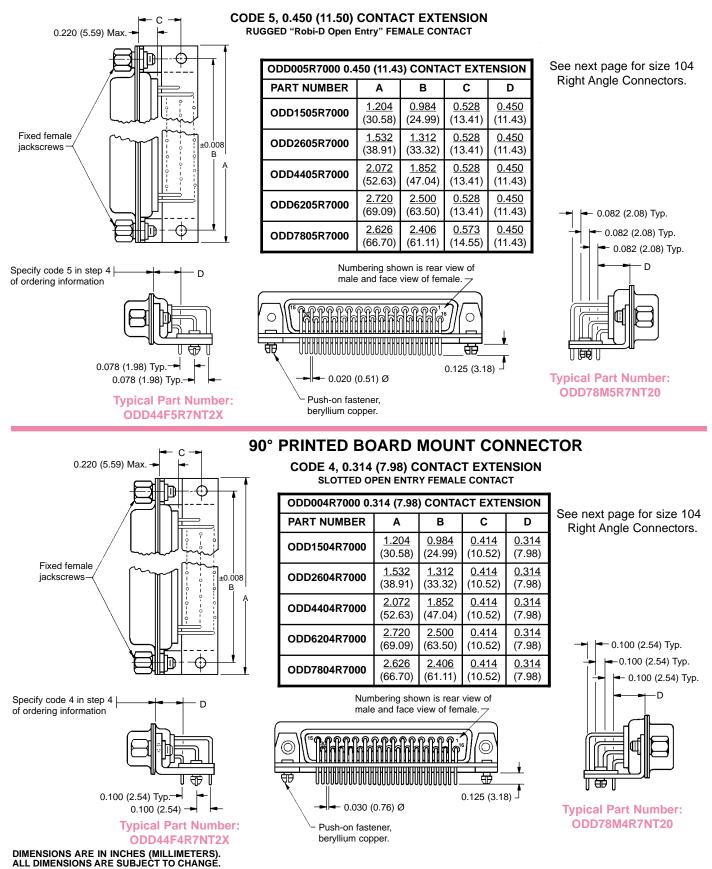


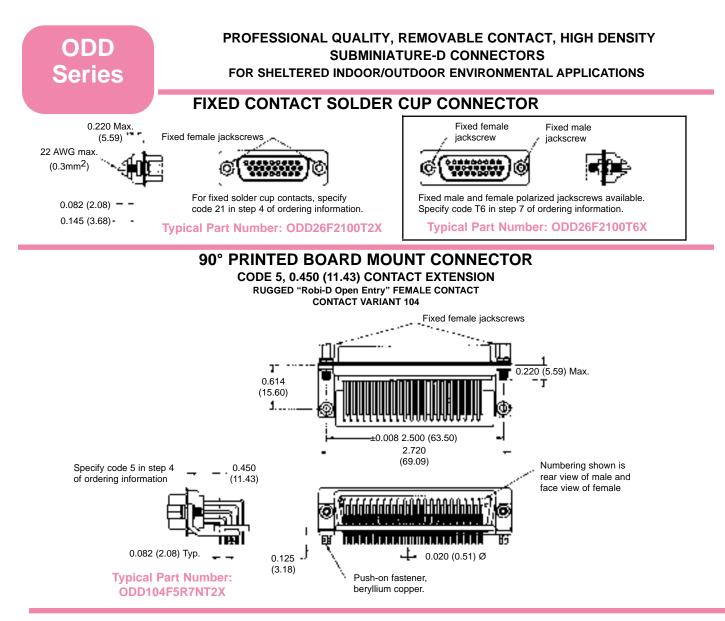
specify code no. in step 4 of ordering information

Typical Part Number: ODD62F3S60T6X

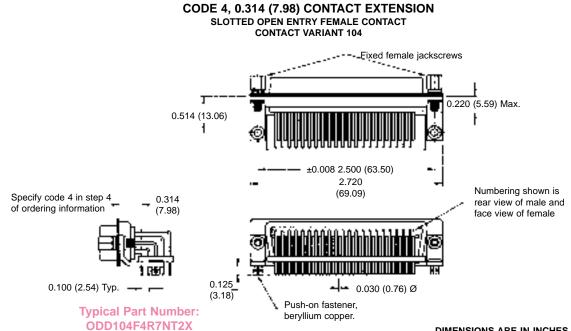
ODD Series

90° PRINTED BOARD MOUNT CONNECTOR



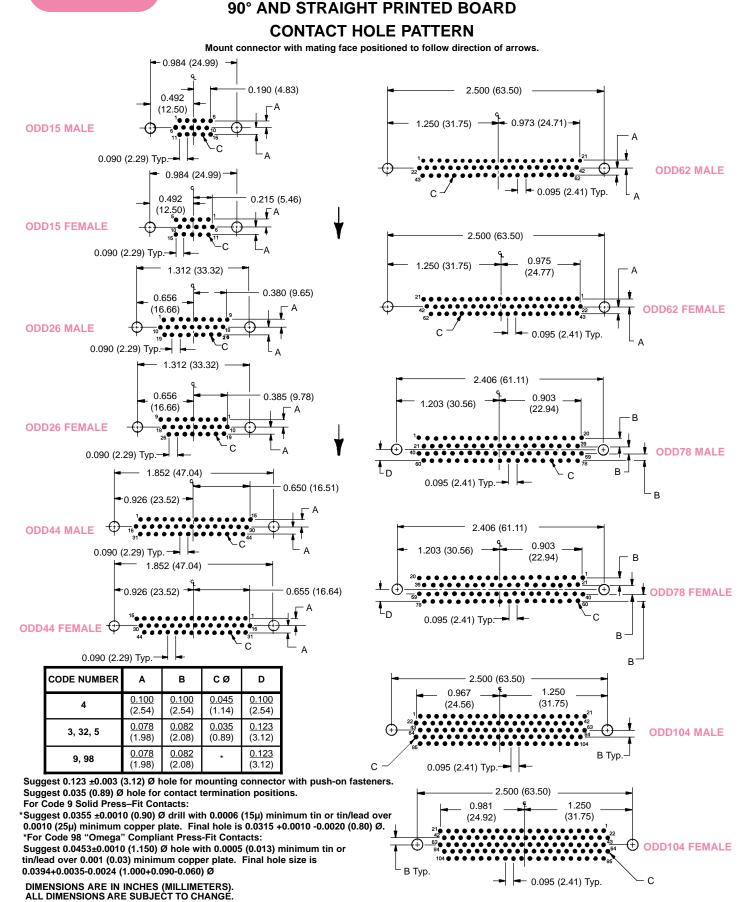


90° PRINTED BOARD MOUNT CONNECTOR



DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE. PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS



35

ODD

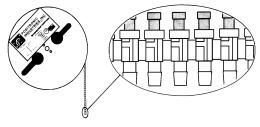
Series

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

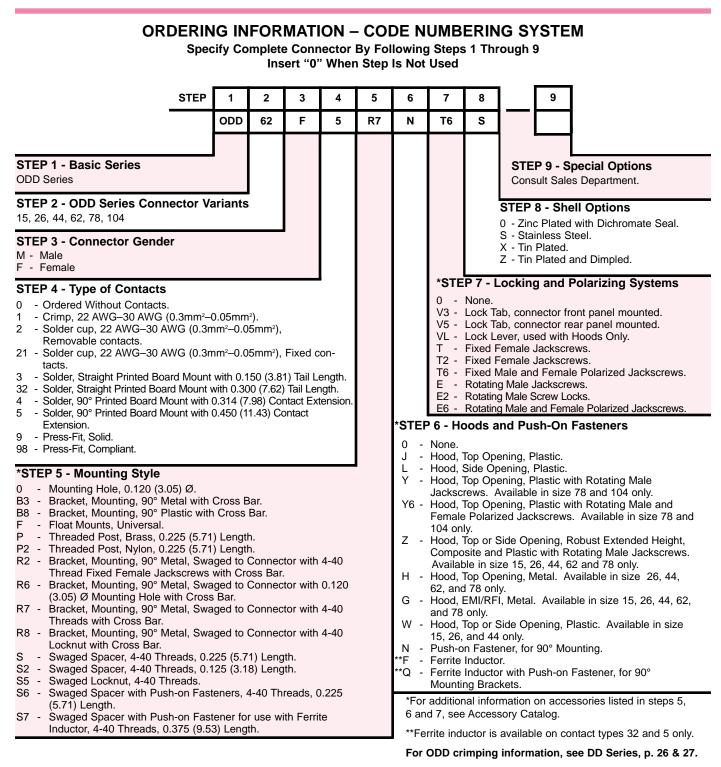
REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

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.





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

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED Part No. 9550-1

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

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



| Positronic Recommended | | | |
|------------------------|-----------------|--|--|
| Conductor Te | ensile Strength | | |

| WIRE SIZE | AXIAL LOAD |
|---------------------|---------------------|
| AWG/(mm²) | POUNDS/(N) |
| <u>22</u> | <u>12</u> |
| (0.3) | (53) |
| <u>24</u> | <u>8</u> |
| (0.25) | (36) |
| <u>26</u> | <u>5</u> |
| (0.12) | (22) |
| <u>28</u> (0.08) | <u>3</u> (13) |
| <u>30</u> (0.05) | $\frac{1.5}{(4.4)}$ |

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

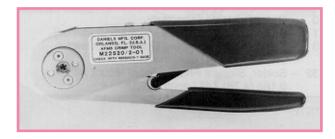
Values may change depending upon what type of wire is used.

MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

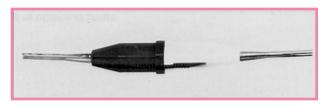
This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG (0.5mm²) through 32 AWG (0.03mm²).

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



INSERTION/REMOVAL TOOL (M81969/1-04)

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



Positronic recommended tools for ODD series contacts.

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

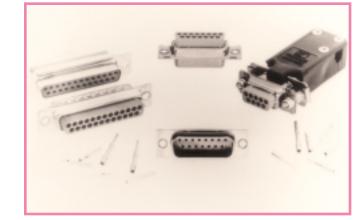
ORD Series

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, pas- sivated. 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 nick- el plate. | | |
| Jackscrew Systems: | Steel with zinc plate and dichromate seal, or clear zinc plate. | | |
| Hoods: | Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal. | | |

ELECTRICAL CHARACTERISTICS:

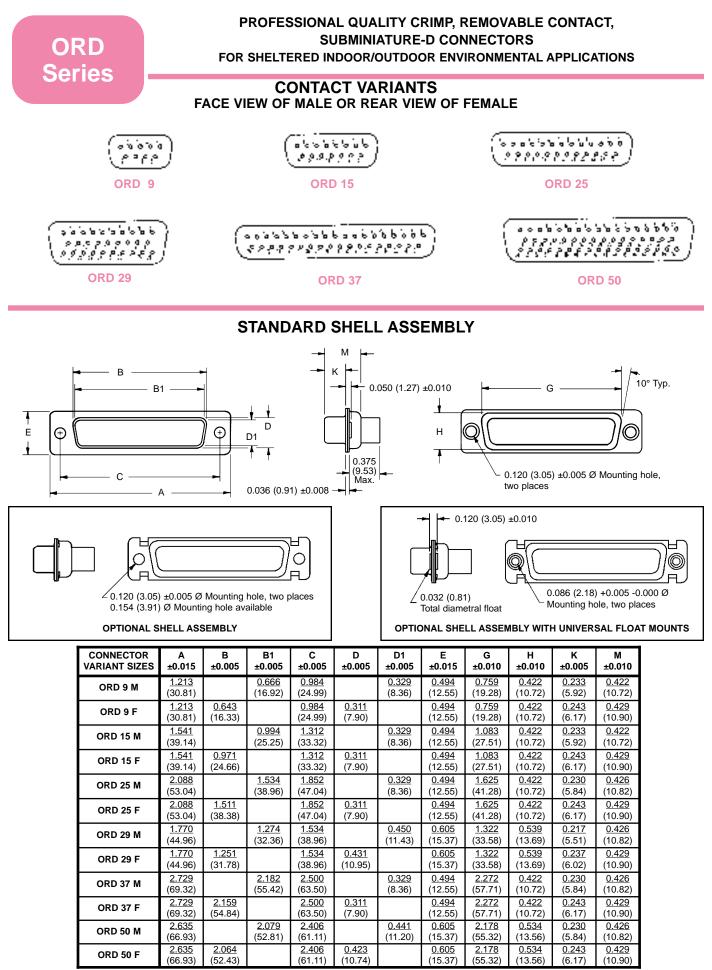
| Contact Current Rating: | 7.5 amperes nominal. | | |
|---|----------------------|--|--|
| Initial Contact Resistance: | 0.005 ohms maximum. | | |
| Proof Voltage: | 1000 V r.m.s. | | |
| Insulator Resistance: | 5 G ohms. | | |
| Clearance and Creepage Distance (minimum): | 0.039 inch (1.0mm). | | |
| Working Voltage: | 300 V r.m.s. | | |

CLIMACTIC CHARACTERISTICS:

| Temperature Range: | -55°C to +125°C. | | |
|--------------------------|------------------|--|--|
| Damp Heat. Steady State: | 10 davs. | | |

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 polar- ized jackscrews. |
| Locking Systems: | Jackscrews and vibration locking systems. |
| Mechanical Operations: | 500 operations minimum per IEC 512-5 for " 'Robi–D' Open Entry" design. |



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



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

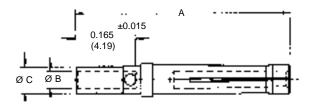
CRIMP CONTACTS

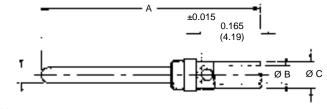
CLOSED CRIMP BARREL

MALE CONTACT

FEMALE CONTACT







±0.001 • Ø 0.040 (1.02) ⁻⁻

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

Material – Brass. Plating – Gold flash over nickel.

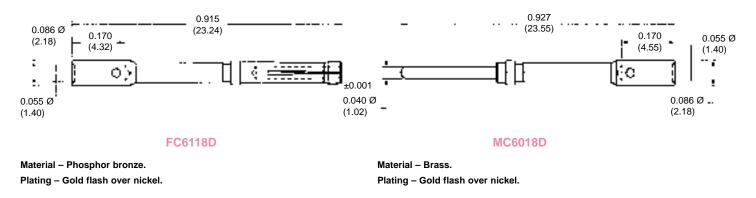
Closed entry contacts are available. See page 43 of the RD Series in this catalog for additional information.

| PART NUMBER | WIRE SIZE | A | ВØ | CØ |
|-------------|---------------------|--------------|--------------|--------------|
| | AWG/(mm²) | ±0.015 | ±0.005 | ±0.005 |
| FC6120D | <u>20 / 22 / 24</u> | <u>0.538</u> | <u>0.044</u> | <u>0.066</u> |
| | (0.5/0.3/0.25) | (13.67) | (1.12) | (1.68) |
| MC6020D | <u>20 / 22 / 24</u> | <u>0.538</u> | <u>0.044</u> | <u>0.066</u> |
| | (0.5/0.3/0.25) | (13.67) | (1.12) | (1.68) |

FEMALE CONTACT

MALE CONTACT

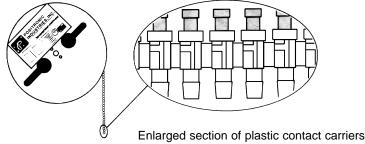




REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

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.

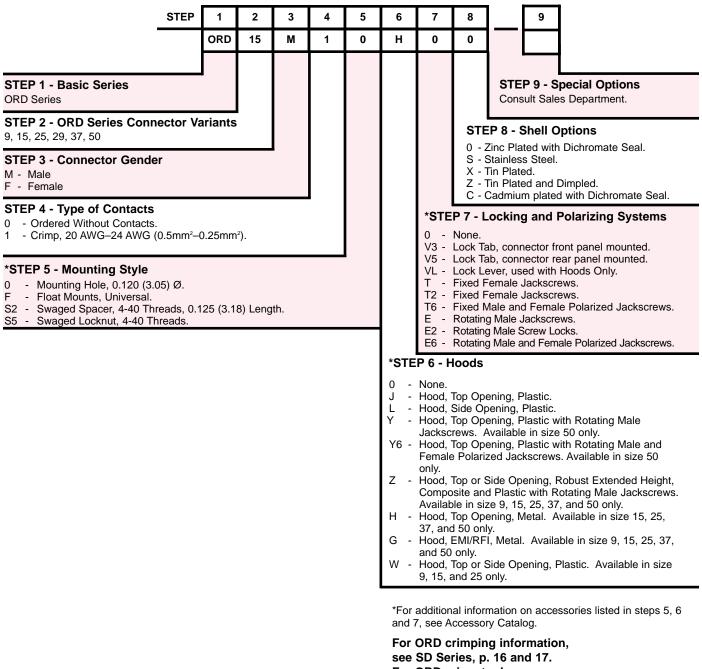
All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC6020DR for a male contact and FC6120DR for a female contact.



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

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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



For ORD crimp tools, see RD Series, p. 46.



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 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.

Insert contact to rear face of insulator

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 – preci- sion 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 nick- el 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. |

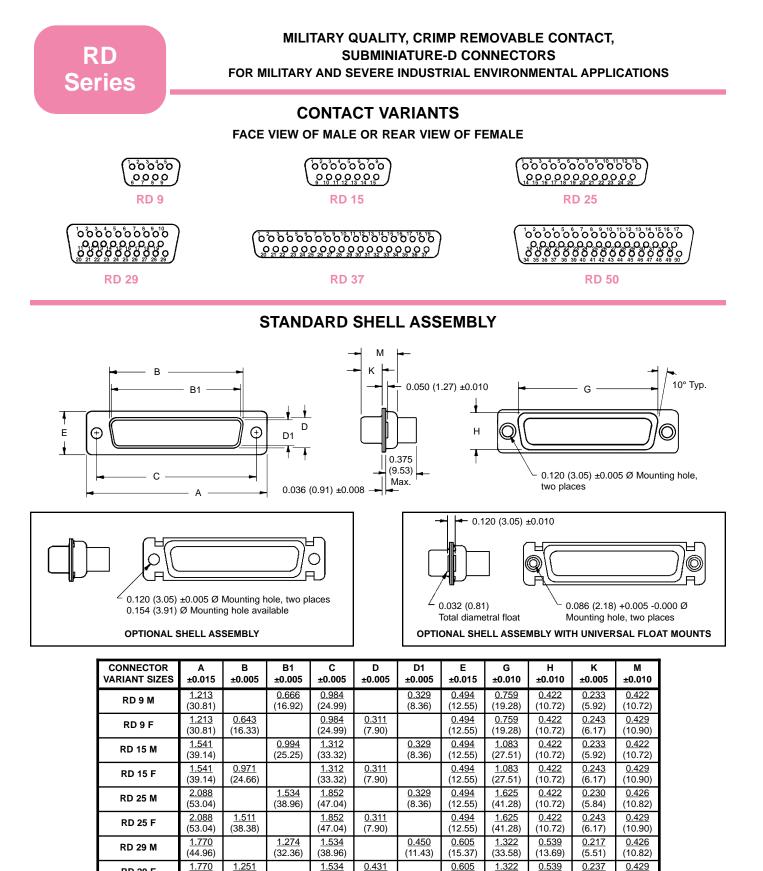
CLIMATIC CHARACTERISTICS:

Temperature Range:-55°C to +125°C.Damp Heat, Steady State:21 days.

MECHANICAL CHARACTERISTICS:

Removable Contacts:

| | 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 polar- ized 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. |



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

(33.58)

2.272

(57.71)

2.272

(57.71)

2.178

(55.32)

2.178

(13.69)

0.422

(10.72)

0.422

(10.72)

<u>0.534</u>

(13.56)

0.534

(13.56)

(6.02)

0.230

(5.84)

0.243

(6.17)

0.230

(5.84)

0.243

(6.17)

(10.90)

0.426

(10.82)

0.429

(10.90)

0.426

(10.82)

0.429

(10.90)

(15.37)

0.494

(12.55)

0.494

(12.55)

0.605

(15.37)

0.605

(15.37)

RD 29 F

RD 37 M

RD 37 F

RD 50 M

RD 50 F

(44.96)

2.729

(69.32)

2.729

(69.32)

2.635

(66.93)

2.635

(66.93)

(31.78)

2.159

(54.84)

2.064

(52.43)

2.182

(55.42)

2.079

(52.81)

(38.96)

2.500

(63.50)

2.500

(63.50)

2.406

(61.11)

2.406

(61.11)

(10.95)

0.311

(7.90)

0.423

(10.74)

0.329

(8.36)

0.441

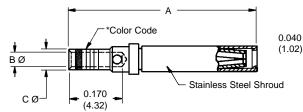
(11.20)



CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

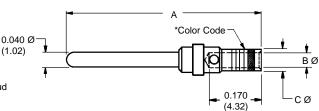


Material - Leaded nickel copper.

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/(mm ²) | | Α | ВØ | СØ |
|---|---------------------|--------------|--------------|--------------|
| FC6020D | <u>20 / 22 / 24</u> | <u>0.538</u> | <u>0.044</u> | <u>0.066</u> |
| | (0.5/0.3/0.25) | (13.67) | (1.12) | (1.68) |
| FC6026D | | <u>0.538</u> | <u>0.027</u> | <u>0.066</u> |
| (0.12/0.08/0.05) | | (13.67) | (0.69) | (1.68) |
| *M39029/63-368 | <u>20 / 22 / 24</u> | <u>0.538</u> | <u>0.044</u> | <u>0.066</u> |
| | (0.5/0.3/0.25) | (13.67) | (1.12) | (1.68) |



MALE CONTACT

Material - Brass.

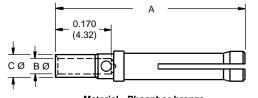
Plating - Gold flash over nickel or 0.000050 inch (1.25µ) gold over copper for military specification contacts.

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

| PART NUMBER | WIRE SIZE AWG/(mm²) | Α | ВØ | CØ |
|----------------|------------------------|--------------|--------------|--------------|
| MC6020D | <u>20 / 22 / 24</u> | <u>0.550</u> | <u>0.044</u> | <u>0.066</u> |
| | (0.5/0.3/0.25) | (13.97) | (1.12) | (1.68) |
| MC6026D | <u>26 / 28 / 30</u> | <u>0.550</u> | <u>0.027</u> | <u>0.066</u> |
| | (0.12/0.08/0.05) | (13.97) | (0.69) | (1.68) |
| *M39029/64-369 | <u>20 / 22 / 24</u> | <u>0.550</u> | <u>0.044</u> | <u>0.066</u> |
| | (0.5/0.3/0.25) | (13.97) | (1.12) | (1.68) |

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

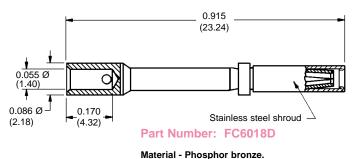
FEMALE CONTACT (""Robi-D Open Entry"" DESIGN)



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

| PART NUMBER | WIRE SIZE AWG/(mm²) | Α | ВØ | СØ | |
|-------------|------------------------|--------------|--------------|--------------|--|
| FC6120D | <u>20 / 22 / 24</u> | <u>0.538</u> | <u>0.044</u> | <u>0.066</u> | |
| | (0.5/0.3/0.25) | (13.67) | (1.12) | (1.68) | |

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

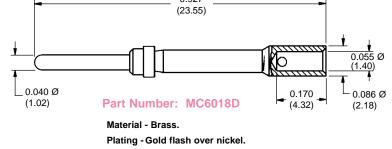


Plating - Gold flash over nickel.

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

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

MALE CONTACT 18 AWG (1.0mm²) max.



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.

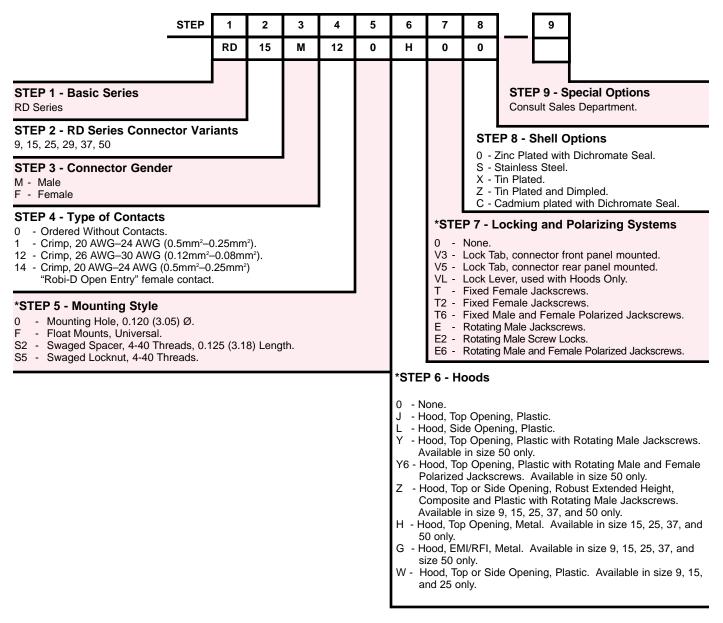
(1)



Enlarged section of plastic contact carriers

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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



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

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



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

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED Part No. 9550-1

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

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



Positronic Recommended Conductor Tensile Strength

| WIRE SIZE | AXIAL LOAD |
|------------|------------|
| AWG/(mm²) | POUNDS/(N) |
| <u>18</u> | <u>28</u> |
| (1.0) | (125) |
| <u>20</u> | <u>_20</u> |
| (0.5) | (89) |
| <u>22</u> | <u>12</u> |
| (0.3) | (53) |
| <u>24</u> | <u>8</u> |
| (0.25) | (36) |
| <u>26</u> | <u>5</u> |
| (0.12) | (22) |
| <u>_28</u> | <u>3</u> |
| (0.08) | (13) |
| <u>30</u> | <u>1.5</u> |
| (0.05) | (6.7) |

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

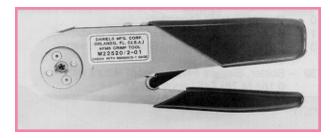
Values may change depending upon what type of wire is used.

MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

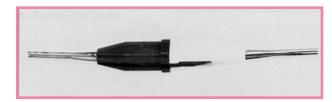
This miniature 8 step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG (1.0mm²) through 32 AWG (0.03mm²).

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



INSERTION/REMOVAL TOOL (M81969/1-02)

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



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

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

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**

File #E49351

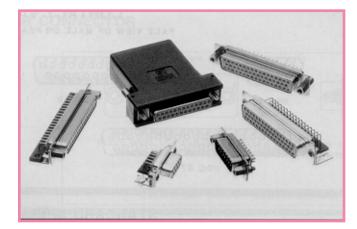
CSA Recognized File #LR54219

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 connec-tors 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 arrange-



MECHANICAL CHARACTERISTICS:

ments 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.

steel shroud.

9 lbs. (40 N).

per IEC 512-6.

wire maximum.

square.

ground paths.

ized jackscrews.

(0.61mm) diameter.

for European Metric footprint.

Size 20 contact, male contact - 0.040 inch (1.02mm) diameter. Female con-tact – closed entry design with stainless

650°F (350°C) for 10 seconds duration

Solder cup contacts - 0.042 inch (1.06mm) minimum hole diameter in solder style contact for 20 AWG (0.5mm²)

Straight Printed Board Mount - 0.028 inch (0.71mm) diameter and 0.024 inch

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

Wrap Post - 0.025 inch (0.64mm)

Male shells may be dimpled for EMI/ESD

Trapezoidally shaped shells and polar-

Jackscrews and riveted fasteners with

HARMO-D SERIES TECHNICAL CHARACTERISTICS

Fixed Contacts:

Contact Retention In Insulator:

Iron Heat:

Shells:

Polarization:

Mounting To Angle Brackets:

Resistance To Solder

Contact Terminations:

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 – preci- sion 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 nick- el plate. |
| Hoods: | Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal. |

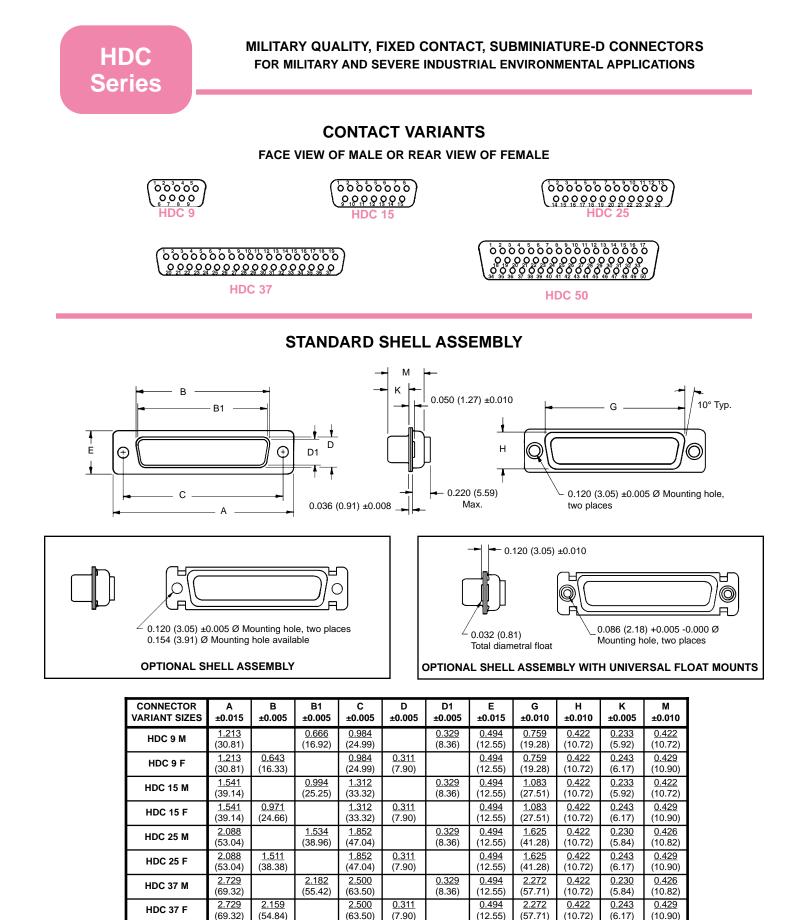
ELECTRICAL CHARACTERISTICS:

| ١ | Vorking Voltage: | 300 V r.m.s. | Mechanical Operations: | 1000 operations minimum per IEC 512-5. |
|-----|---|----------------------|-------------------------------|--|
| | Clearance and Creepage Distance (minimum): | 0.039 inch (1.0mm). | Locking Systems: | Jackscrews and vibration locking sys- tems. |
| I | nsulator Resistance: | 5 G ohms. | | mounting posts. |
| F | Proof Voltage: | 1000 V r.m.s. | Mounting To Printed Board: | Rapid installation push-on fasteners and |
| I | nitial Contact Resistance: | 0.005 ohms maximum. | | threads and nylon lock inserts. |
| C | Contact Current Rating: | 7.5 amperes nominal. | | 0.120 inch (3.05mm) clearance hole, and threaded riveted fasteners with 4-40 |
| _ 1 | ELECTRICAL CHARAU | | Didekets. | |

CLIMATIC CHARACTERISTICS:

-55°C to +125°C. Temperature Range: Damp Heat. Steady State: 56 days.

47



2.635

(66.93)

2.635

(66.93)

2.064

 $(52\ 43)$

HDC 50 M

HDC 50 F

2.079

(52.81)

2.406

(61.11)

2.406

(61.11)

0.423

(10.74)

0.441

(11.20)

0.605

(15.37)

0.605

(15.37)

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

<u>2.178</u>

(55.32)

2,178

<u>0.534</u>

(13.56)

0.534

(13.56)

0.230

(5.84)

0.243

(6.17)

0.426

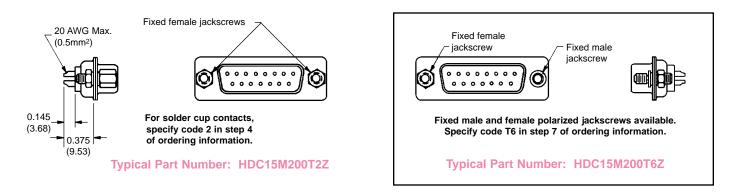
(10.82)

0.429

(10.90)

HDC Series

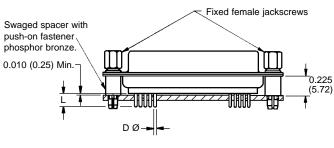
SOLDER CUP CONNECTOR



STRAIGHT PRINTED BOARD MOUNT CONNECTOR

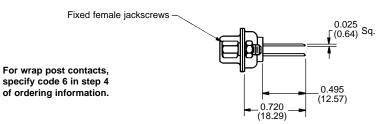
| CODE NUMBER | L | DØ |
|----------------|------------------------|------------------------|
| 3 | <u>0.170</u> (4.32) | <u>0.028</u> (0.71) |
| 32 | <u>0.375</u> (9.53) | <u>0.028</u> (0.71) |
| 36 | <u>0.236</u> (6.00) | <u>0.024</u> (0.61) |

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

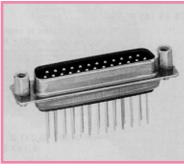


Typical Part Number: HDC25F3S60T0

WRAP POST CONNECTOR



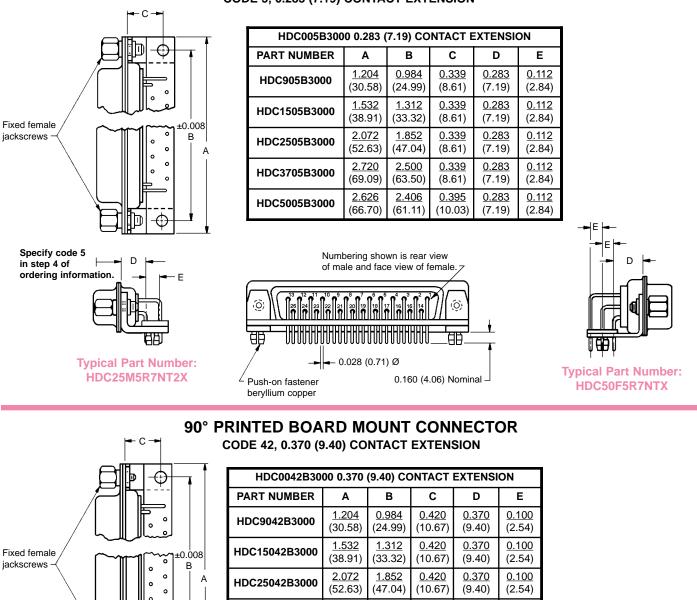
Typical part number: HDC15F600T0



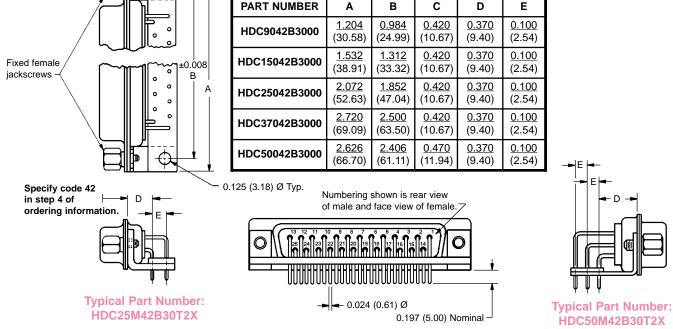
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

HDC25M6S50T0

90° PRINTED BOARD MOUNT CONNECTOR



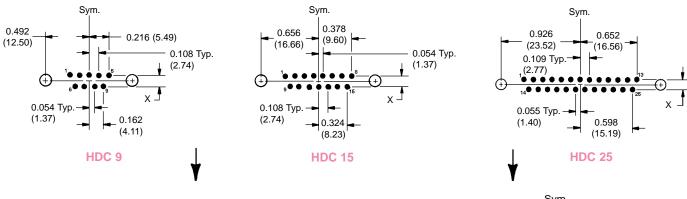
CODE 5, 0.283 (7.19) CONTACT EXTENSION

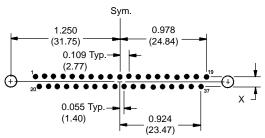


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

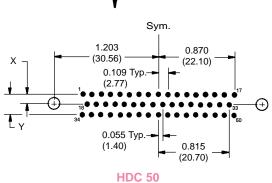
90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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





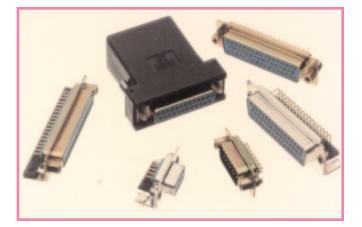
HDC 37



| CODE NUMBER | х | Y |
|----------------|------------------------|------------------------|
| 3 | <u>0.112</u> (2.84) | <u>0.224</u> (5.69) |
| 5 | <u>0.112</u> (2.84) | <u>0.224</u> (5.69) |
| 32 | <u>0.112</u> (2.84) | <u>0.224</u> (5.69) |
| 36 | <u>0.112</u> (2.84) | <u>0.224</u> (5.69) |
| *42 | <u>0.100</u> (2.54) | <u>0.200</u> (5.08) |

*Metric system, European contact hole pattern.

Suggest 0.039 (0.99) Ø hole for 0.024 (0.61) Ø contact termination positions. Suggest 0.045 (1.14) Ø hole for 0.028 (0.71) Ø contact termination positions. Suggest 0.123 ±0.003 (3.12) Ø hole for mounting connector with push-on fasteners.



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

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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

| s | STEP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 I | 9 | |
|--|---|---|---|--|-----------------------|----|---|--|---|--|--|--|
| _ | | HDC | 37 | F | 5 | B3 | 0 | Т | 0 | | | |
| STEP 1 - Basic Series HDC Series STEP 2 - HDC Series Connect 9, 15, 25, 37, 50 | tor Va | riants | 5 | | | | | | | Consu EP 8 - S | ult Sales | becial Options s Department. ptions Dichromate Seal. |
| STEP 3 - Connector Gender M - Male F - Female | | | | - | | | | | S - X - Z - | Stainless Tin Plated Tin Plated | s Steel. d. d and E | |
| STEP 4 - Type of Contacts 2 - Solder cup. 3 - Solder, Straight Printed Board Tail Length. 32 - Solder, Straight Printed Board Tail Length. 33 - Solder, Straight Printed Board Tail Length. 34 - Solder, Metric System 90° Prin 0.370 (9.40) Contact Extensio 5 - Solder, 90° Printed Board Mou Contact Extension. 6 - Wrap Post. *STEP 5 - Mounting Style 0 - Mounting Hole, 0.120 (3.05) B3 - Bracket, Mounting, 90° Meta B8 - Bracket, Mounting, 90° Plast F - Float Mounts, Universal. P - Threaded Post, Brass, 0.225 P2 - Threaded Post, Nylon, 0.225 R2 - Bracket, Mounting, 90° Meta Thread Fixed Female Jacksco R6 - Bracket, Mounting, 90° Meta Threads with Cross Bar. R8 - Bracket, Mounting, 90° Meta Threads with Cross Bar. R8 - Bracket, Mounting, 90° Meta Cocknut with Cross Bar. R8 - Bracket, Mounting, 90° Meta Cocknut with Cross Bar. R8 - Bracket, Mounting, 90° Meta Cocknut with Cross Bar. Swaged Spacer, 4-40 Thread S5 - Swaged Locknut, 4-40 Thread S5 - Swaged Locknut, 4-40 Thread S5 - Swaged Locknut, 4-40 Thread S5 - Swaged Spacer, with Push-on (5.71) Length. | d Moun inted Bon. unt with g. al with (tic with 5 (5.71) 5 (5.71) al, Swag crews v. al, Swag crews v. al, Swag al, Swag | t with 0 t with 0 oard M h 0.283 Cross E Cross E Cross) Lengt yed to Bar. ged to ged to 25 (5.7 25 (3.1 | 0.375 (9 0.236 (5 ount wi 3 (7.19) Bar. Bar. Bar. h. Connec Connec Connec Connec Connec | .52) .99) th tor with tor with tor with tor with ttor with ttor with | 0.120 4-40 4-40 | | 0 J L Y Z H G W N | 0 - V3 - V5 - VL - T - T2 - T6 - E2 - E6 - E6 - E6 - Hoo Jac 6 - Hoo Fer only - Hoo Hei Jac 6 - Hoo Hoo Hei Jac 6 - Hoo San Hoo Hoo San Hoo Hoo Hoo Hoo Hoo Hoo Hoo Hoo Hoo Ho | None. Lock T Lock T Fixed Fixed For the second state of the second state | ab, conne ab, conne Female Ja Female Ja Male and Male and | ector fro ector re ackscre Female ackscre crew Loo nd Female g, Plastin g, Plastin g, Plastin lackscre Opening and Plastin and Plastin lackscre Opening | ws. e Polarized Jackscrews. ws. cks. ale Polarized Jackscrews. n Fasteners |

*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.

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 Telecommunication

File #E49351

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

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 pushout 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 CONNEC-TION TO PLATED-THROUGH-HOLE OF PRINTED BOARD:

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

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

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: Initial Contact Resistance: Proof Voltage: Insulator Resistance: Clearance and Creepage Distance (minimum): Working Voltage: 7.5 amperes, nominal. 0.008 ohms maximum per IEC 512-2, Test 2a. 1000 V r.m.s. 5 G ohms.

0.039 inch (1.0mm). 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** 5 lbs. (21 N) minimum. In Insulator: 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 iackscrews. Locking System: Jackscrews and vibration locking systems. **Mechanical Operations:** 500 operations per IEC 512-5.

CLIMATIC CHARACTERISTICS:

Temperature Range:

-55°C to +125°C

Е

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 ိဝဝဝဝဝ ိဝဝဝဝဝဝဝဝ ႝ၀၀၀၀၀၀၀၀၀၀၀၀ႆ 0000 0000000 0000000000000 PCD 9 **PCD 15 PCD 25** ៓៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰៰ 0000000000000000000 **PCD 37 PCD 50** STANDARD SHELL ASSEMBLY В -10° Typ. -- M --– B1 -Kθ \oplus D'1 Ď $(\bigcirc$ C 0.036 +0.008 _0.220 (5.59) Max. (0.91±0.20) 0.265 (6.73) CONNECTOR Α в **B1** С D D1 Ε G н κ М VARIANT SIZES ±0.015 ±0.005 ±0.005 ±0.005 ±0.005 +0.005±0.015 ±0.010 ±0.010 ±0.005 ±0.010 0.494 0.422 0.422 1.213 0.666 <u>0.984</u> 0.329 0.759 0.233 PCD 9 M (30.81) (16.92) (24.99)(8.36) (12.55) (19.28) (10.72)(5.92)(10.72)1.213 0.643 0.984 0.311 <u>0.494</u> <u>0.759</u> 0.422 0.243 <u>0.429</u> PCD 9 F (24.99)(10.72)(30.81)(16.33)(7.90)(12.55)(19.28)(6.17)(10.90)<u>1.541</u> 0.994 <u>1.312</u> 0.329 <u>0.494</u> <u>1.083</u> <u>0.422</u> 0.233 <u>0.422</u> **PCD 15 M** (39.14) (25.25) (33.32)(8.36)(12.55)(27.51)(10.72)(5.92)(10.72)<u>1.541</u> <u>0.971</u> <u>1.312</u> 0.311 <u>0.494</u> 1.083 <u>0.422</u> 0.243 <u>0.429</u> PCD 15 F (39.14)(24.66)(33.32)(7.90)(12.55)(27.51)(10.72)(6.17)(10.90)2.088 <u>1.534</u> <u>1.852</u> 0.329 <u>0.494</u> <u>1.625</u> <u>0.422</u> <u>0.230</u> <u>0.426</u> PCD 25 M (53.04)(38.96)(47.04) (8.36)(12.55) (41.28) (10.72)(5.84)(10.82)2.088 <u>1.511</u> <u>1.852</u> <u>0.311</u> <u>0.494</u> <u>1.625</u> <u>0.422</u> 0.243 0.429 PCD 25 F (53.04)(38.38)(47.04)(7.90)(12.55)(41.28) (10.72)(6.17) (10.90)2.729 2.182 2.500 <u>0.329</u> 0.494 2.272 0.422 0.230 0.426 PCD 37 M (69.32)(55.42)(63.50)(8.36)(12.55)(57.71)(10.72)(5.84)(10.82)2.729 2.500 0.494 0.422 0.429 2.159 0.311 2.272 0.243

"Bi-Spring" Compliant **Termination**

(69.32)

2.635

(66.93)

2.635

(66.93)

(54.84)

2.064

(52.43)

(63.50)

2.406

(61.11)

2.406

(61.11)

2.079

(52.81)

(7.90)

0.423

(10.74)

0.441

(11.20)

(12.55)

0.605

(15.37)

0.605

(15.37)

(57.71)

2.178

(55.32)

2.178

(55.32)

PCD 37 F

PCD 50 M

PCD 50 F



"Omega" Compliant Termination

(10.72)

0.534

(13.56)

0.534

(13.56)

(6.17)

0.230

(5.84)

0.243

(6.17)

(10.90)

0.426

(10.82)

0.429

(10.90)

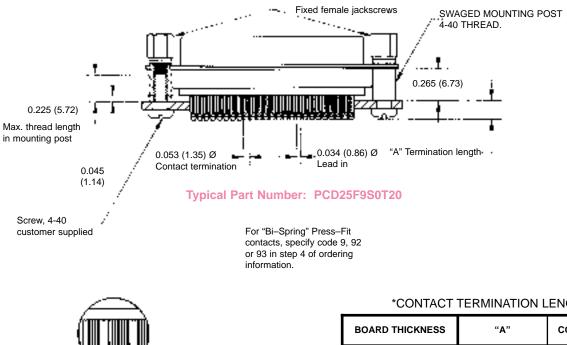


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

PCD Series

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

BI–SPRING COMPLIANT PRESS-FIT CONNECTOR

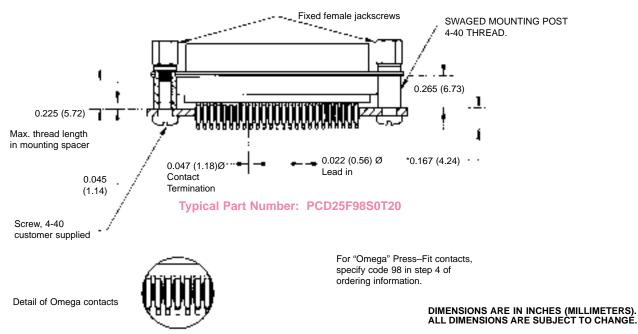


Detail of Bi-Spring contacts

***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

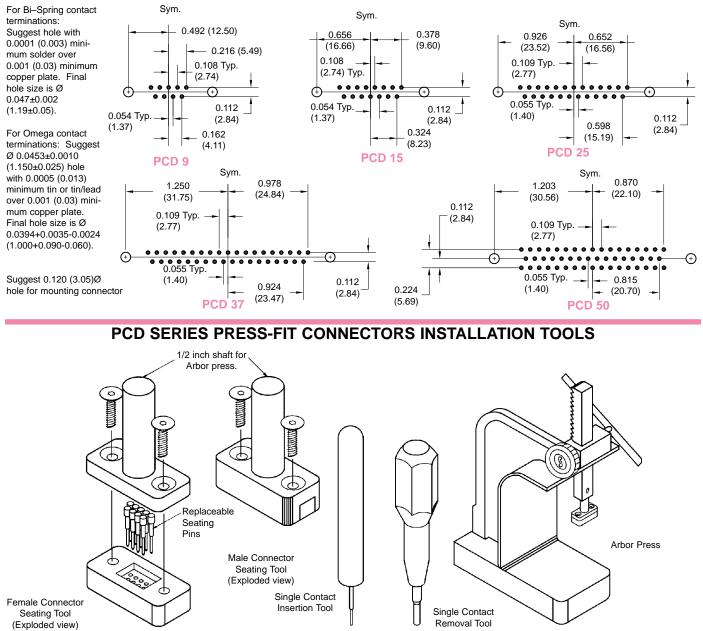


*The effective length of the compliant section may also be varied (longer or shorter) and can be selectively positioned and centered at several points along the contact termination length, permitting high or low profile mounting of the connector on printed boards.

PCD Series

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



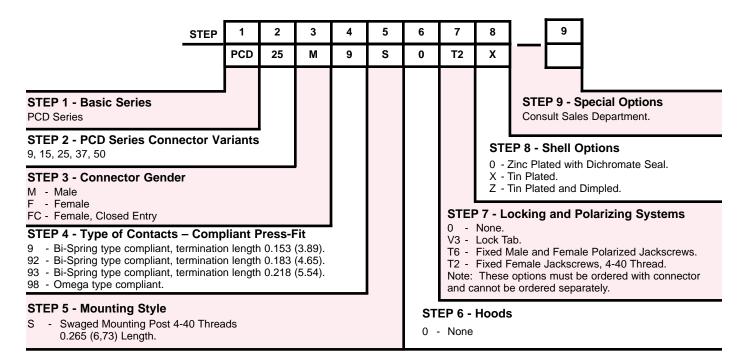
Positronic recommended tools for PCD Series Connectors and Contacts

| Series | Connecto | Connector Seating Sing | | act Insertion | Single Contact |
|------------------|---------------|------------------------|------------------|------------------|------------------|
| Genes | Male | Female | Male | Female | Removal |
| PCD 9 | 9512-1-0-41 | 9512-6-0-41 | | | |
| PCD 15 | 9512-2-0-41 | 9512-7-0-41 | 9512-100-0 | 9512-101-0 | 9512-102-0 |
| PCD 25 | 9512-3-0-41 | 9512-8-0-41 | FOR ALL SIZES | FOR ALL SIZES | FOR ALL SIZES |
| PCD 37 | 9512-4-0-41 | 9512-9-0-41 | ALL SIZES | ALL SIZES | ALL SIZES |
| PCD 50 | 9512-5-0-41 | 9512-10-0-41 | | | |
| Arbor press fo | 4 inch throat | | | | |
| Replacement pins | for connector | seating tools. | Female - 85 | 55-658-0-41 | |

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

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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



REPLACEMENT CONTACTS PART NUMBERS

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

* - PLATING OPTIONS FOR REPLACEMENT CONTACTS

-14 GOLD 0.000030 (0.75 MICRONS) OVER NICKEL PLATE

-51 GOLD FLASH OVER NICKEL PLATE



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 dam-age 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 CHARACT | ERISTICS OF COMPLIANT CONNEC- |

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

TION TO PLATED-THROUGH-HOLE OF PRINTED BOARD:

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

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: Initial Contact Resistance: **Proof Voltage:** Insulator Resistance: **Clearance and Creepage** Distance (minimum): Working Voltage:

5 amperes, nominal. 0.010 ohms maximum per IEC 512-2, Test 2a. 1000 V r.m.s. 5 G ohms.

0.042 inch (1.02 mm). 300 V.

MECHANICAL CHARACTERISTICS:

Repairable Contacts Solid Metal Construction: **Contact Retention**

In Insulator: **Compliant Termination** Omega Construction:

Press-In Force of Contact into plated-through-hole of 0.125 inch (3.18mm) printed board: Push-Out Force of Contact from plated-through-hole of 0.125 inch (3.18mm) printed board: Vibration Test per MIL-STD 1344, Method 2005, Test Conditioning: Connector Polarization:

Locking System:

Mechanical Operations:

CLIMATIC CHARACTERISTICS: Temperature Range:

-55°C to +125°C.

Size 22 contact male - 0.030 inch (0.76 mm) diameter: female contact - rugged open-entry design or closed entry design. 5 lbs. (21 N) minimum.

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.

4 lbs. (16.8 N).

6 lbs. (25.2 N).

No electrical discontinuity of 1 µs or greater. Trapezoidal shaped shells and polarized jackscrews. Jackscrews and vibration locking systems.

500 operations per IEC 512-5.

PROFESSIONAL QUALITY, 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



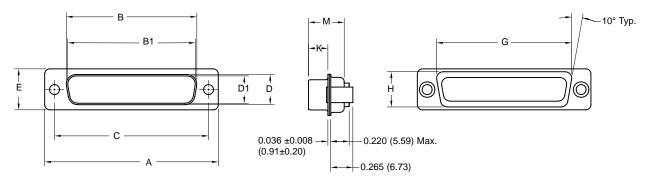
PCDD 62



PCDD 104

STANDARD SHELL ASSEMBLY

PCDD 78

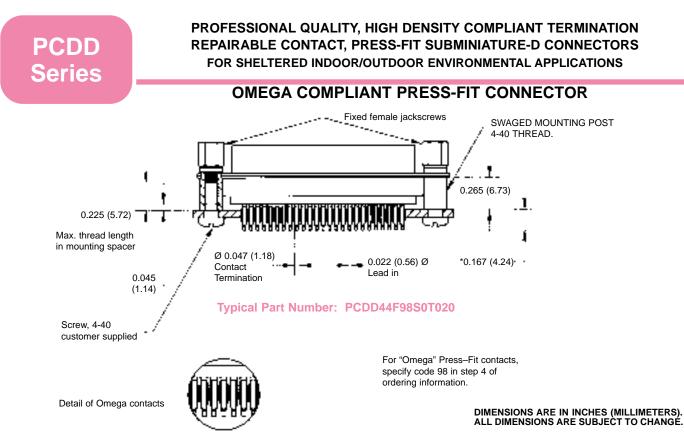


| CONNECTOR VARIANT SIZES | A ±0.015 | В ±0.005 | B1 ±0.005 | C ±0.005 | D ±0.005 | D1 ±0.005 | E ±0.015 | G ±0.010 | H ±0.010 | K ±0.005 | M ±0.010 |
|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-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

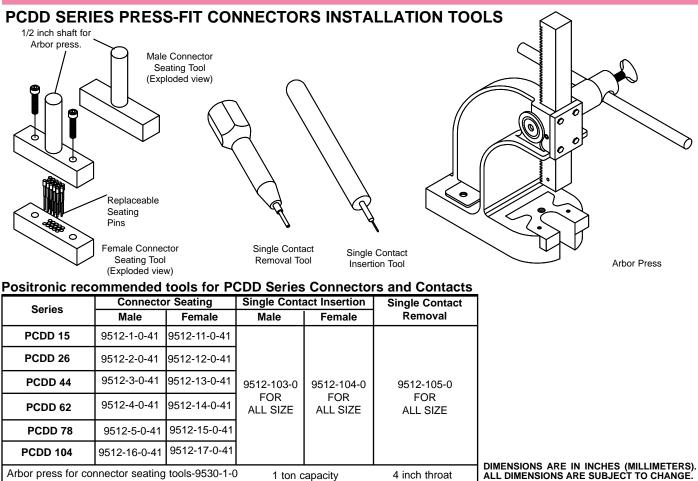
"Omega" Compliant Termination



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.



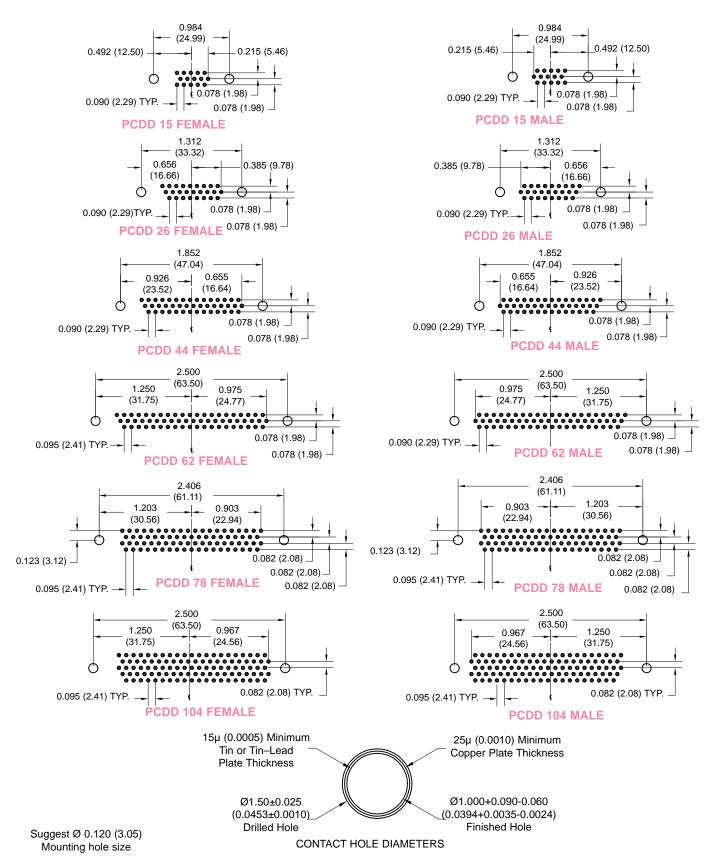
Female - 855-751-0-41

Replacement pins for connector seating tools,

PCDD Series

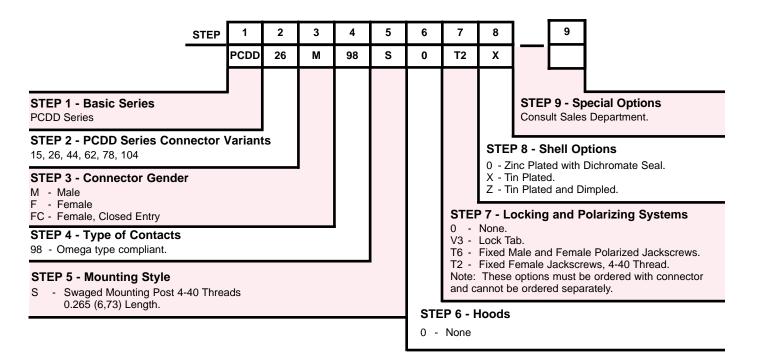
PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

COMPLIANT PRESS-FIT CONNECTOR PRINTED BOARD CONTACT HOLE PATTERN



ORDERING INFORMATION – CODE NUMBERING SYSTEM

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



REPLACEMENT CONTACTS PART NUMBERS

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

- * PLATING OPTIONS FOR REPLACEMENT CONTACTS
- -14 GOLD 0.000030 (0.75 MICRONS) OVER NICKEL PLATE
- -51 GOLD FLASH OVER NICKEL PLATE

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.

| MIL-DTL-2430 | 08, MIL-C-39029 and | MIL-C-85049. | For additional Q.P.L. | connectors, plea | ase consult the factory | sales office. | |
|-------------------------------|--|-------------------------------|--|------------------------------|--|-------------------------------|---|
| MILITARY | POSITRONIC * | MILITARY | POSITRONIC * | MILITARY | POSITRONIC * | MILITARY | POSITRONIC * |
| PART NUMBER | PART NUMBER | PART NUMBER | | PART NUMBER | R PART NUMBER | PART NUMBE | |
| M24308/1-1 | HDC9F20000-50 | M24308/2-286 | DD15F00000 | M24308/2-522 | RD15F10000-50-799.1 | M24308/3-19 | HDC25M2F000-50 |
| M24308/1-1F | HDC9F2000C-50 | M24308/2-286F | DD15F0000C | M24308/2-523 | RD25F10000-50-799.1 | M24308/3-19F | HDC25M2F00C-50 |
| M24308/1-2 | HDC15F20000-50 | M24308/2-287 | DD26F00000 | M24308/2-524 | RD37F10000-50-799.1 | M24308/3-20 | HDC37M2F000-50 |
| M24308/1-2F | HDC15F2000C-50 | M24308/2-287F | DD26F0000C | M24308/2-525 | RD50F10000-50-799.1 | M24308/3-20F | HDC37M2F00C-50 |
| M24308/1-3 | HDC25F20000-50 | M24308/2-288 | DD44F00000 | M24308/2-526 | DD15F10000-50-799.0 | M24308/3-21 | HDC50M2F000-50 |
| M24308/1-3F | HDC25F2000C-50 | M24308/2-288F | DD44F0000C | M24308/2-527 | DD26F10000-50-799.0 | M24308/3-21F | HDC50M2F00C-50 |
| M24308/1-4 | HDC37F20000-50 | M24308/2-289 | DD62F00000 | M24308/2-528 | DD44F10000-50-799.0 | M24308/3-23 | HDC9M20000-50-799.0 |
| M24308/1-4F | HDC37F2000C-50 | M24308/2-289F | DD62F0000C | M24308/2-529 | DD62F10000-50-799.0 | M24308/3-24 | HDC15M20000-50-799.0 |
| M24308/1-5 | HDC50F20000-50 | M24308/2-290 | DD78F00000 | M24308/2-530 | DD78F10000-50-799.0 | M24308/3-25 | HDC25M20000-50-799.0 |
| M24308/1-5F | HDC50F2000C-50 | M24308/2-290F | DD78F0000C | M24308/2-531 | DD104F10000-50-799.0 | M24308/3-26 | HDC37M20000-50-799.0 |
| M24308/1-23 M24308/1-23F | HDC9F2F000-50 HDC9F2F00C-50 | M24308/2-291 M24308/2-291F | DD104F00000 DD104F0000C | M24308/2-532 M24308/2-533 | DD15F10000-50-799.1 DD26F10000-50-799.1 | M24308/3-27 M24308/3-39 | HDC50M20000-50-799.0 HDC9M2F000-50-799.2 |
| M24308/1-24 | HDC15F2F000-50 | M24308/2-342 | RD9F1F000-50 | M24308/2-534 | DD44F10000-50-799.1 | M24308/3-40 | HDC15M2F000-50-799.2 |
| M24308/1-24F | HDC15F2F00C-50 | M24308/2-342F | RD9F1F00C-50 | M24308/2-535 | DD62F10000-50-799.1 | M24308/3-41 | HDC25M2F000-50-799.2 |
| M24308/1-25 | HDC25F2F000-50 | M24308/2-343 | RD15F1F000-50 | M24308/2-536 | DD78F10000-50-799.1 | M24308/3-42 | HDC37M2F000-50-799.2 |
| M24308/1-25F | HDC25F2F00C-50 | M24308/2-343F | RD15F1F00C-50 | M24308/2-537 | DD104F10000-50-799.1 | M24308/3-43 | HDC50M2F000-50-799.2 |
| M24308/1-26 | HDC37F2F000-50 | M24308/2-344 | RD25F1F000-50 | M24308/2-560 | RD9F00000-799.0 | M24308/4-1 | RD9M10000-50 |
| M24308/1-26F | HDC37F2F00C-50 | M24308/2-344F | RD25F1F00C-50 | M24308/2-561 | RD15F00000-799.0 | M24308/4-1F | RD9M1000C-50 |
| M24308/1-27 | HDC50F2F000-50 | M24308/2-345 | RD37F1F000-50 | M24308/2-562 | RD25F00000-799.0 | M24308/4-2 | RD15M10000-50 |
| M24308/1-27F | HDC50F2F00C-50 | M24308/2-345F | RD37F1F00C-50 | M24308/2-563 | RD37F00000-799.0 | M24308/4-2F | RD15M1000C-50 |
| M24308/1-34 | HDC9F20000-50-799.0 | M24308/2-346 | RD50F1F000-50 | M24308/2-564 | RD50F00000-799.0 | M24308/4-3 | RD25M10000-50 |
| M24308/1-35 | HDC15F20000-50-799.0 | M24308/2-346F | RD50F1F00C-50 | M24308/2-565 | DD15F00000-799.0 | M24308/4-3F | RD25M1000C-50 |
| M24308/1-36 | HDC25F20000-50-799.0 | M24308/2-347 | DD15F1F000-50 | M24308/2-566 | DD26F00000-799.0 | M24308/4-4 | RD37M10000-50 |
| M24308/1-37 | HDC37F20000-50-799.0 | M24308/2-347F | DD15F1F00C-50 | M24308/2-567 | DD44F00000-799.0 | M24308/4-4F | RD37M1000C-50 |
| M24308/1-38 | HDC50F20000-50-799.0 | M24308/2-348 | DD26F1F000-50 | M24308/2-568 | DD62F00000-799.0 DD78F00000-799.0 | M24308/4-5 | RD50M10000-50 |
| M24308/1-56 M24308/1-57 | HDC9F2F000-50-799.2 HDC15F2F000-50-799.2 | M24308/2-348F M24308/2-349 | DD26F1F00C-50 DD44F1F000-50 | M24308/2-569 M24308/2-570 | DD104F00000-799.0 | M24308/4-5F M24308/4-6 | RD50M1000C-50 RD9M10000-50-400.0 |
| M24308/1-57 M24308/1-58 | HDC15F2F000-50-799.2 HDC25F2F000-50-799.2 | M24308/2-349 | DD44F1F00C-50 | M24308/2-585 | RD9F1F000-50-799.2 | M24308/4-6F | RD9M1000C-50-400.0 |
| M24308/1-59 | HDC37F2F000-50-799.2 | M24308/2-350 | DD62F1F000-50 | M24308/2-586 | RD15F1F000-50-799.2 | M24308/4-7 | RD15M10000-50-400.0 |
| M24308/1-60 | HDC50F2F000-50-799.2 | M24308/2-350F | DD62F1F00C-50 | M24308/2-587 | RD25F1F000-50-799.2 | M24308/4-7F | RD15M1000C-50-400.0 |
| M24308/2-1 | RD9F10000-50 | M24308/2-351 | DD78F1F000-50 | M24308/2-588 | RD37F1F000-50-799.2 | M24308/4-8 | RD25M10000-50-400.0 |
| M24308/2-1F | RD9F1000C-50 | M24308/2-351F | DD78F1F00C-50 | M24308/2-589 | RD50F1F000-50-799.2 | M24308/4-8F | RD25M1000C-50-400.0 |
| M24308/2-2 | RD15F10000-50 | M24308/2-352 | DD104F1F000-50 | M24308/2-590 | DD15F1F000-50-799.2 | M24308/4-9 | RD37M10000-50-400.0 |
| M24308/2-2F | RD15F1000C-50 | M24308/2-352F | DD104F1F00C-50 | M24308/2-591 | DD26F1F000-50-799.2 | M24308/4-9F | RD37M1000C-50-400.0 |
| M24308/2-3 | RD25F10000-50 | M24308/2-353 | RD9F1F000-50-400.0 | M24308/2-592 | DD44F1F000-50-799.2 | M24308/4-10 | RD50M10000-50-400.0 |
| M24308/2-3F | RD25F1000C-50 | M24308/2-353F | RD9F1F00C-50-400.0 | M24038/2-593 | DD62F1F000-50-799.2 | M24308/4-10F | RD50M1000C-50-400.0 |
| M24308/2-4 | RD37F10000-50 | M24308/2-354 | RD15F1F000-50-400.0 | M24308/2-594 | DD78F1F000-50-799.2 | M24308/4-11 | DD15M10000-50 |
| M24308/2-4F | RD37F1000C-50 | M24308/2-354F | RD15F1F00C-50-400.0 | M24308/2-595 | DD104F1F000-50-799.2 | M24308/4-11F | DD15M1000C-50 |
| M24308/2-5 | RD50F10000-50 | M24308/2-355 | RD25F1F000-50-400.0 | M24308/2-596 | RD9F1F000-50-799.3 | M24308/4-12 | DD26M10000-50 |
| M24308/2-5F | RD50F1000C-50 | M24308/2-355F | RD25F1F00C-50-400.0 | M24308/2-597 | RD15F1F000-50-799.3 | M24308/4-12F | DD26M1000C-50 |
| M24308/2-6 M24308/2-6F | RD9F10000-50-400.0 RD9F1000C-50-400.0 | M24308/2-356 M24308/2-356F | RD37F1F000-50-400.0 RD37F1F00C-50-400.0 | M24308/2-598 M24308/2-599 | RD25F1F000-50-799.3 RD37F1F000-50-799.3 | M24308/4-13 M24308/4-13F | DD44M10000-50 DD44M1000C-50 |
| M24308/2-0P | RD15F10000-50-400.0 | M24308/2-357 | RD50F1F00C-50-400.0 | M24308/2-599 | RD50F1F000-50-799.3 | M24308/4-13P | DD44M10000-50 |
| M24308/2-7F | RD15F1000C-50-400.0 | M24308/2-357F | RD50F1F00C-50-400.0 | M24308/2-601 | DD15F1F000-50-799.3 | M24308/4-14F | DD62M1000C-50 |
| M24308/2-8 | RD25F10000-50-400.0 | M24308/2-358 | DD15F1F000-50-400.1 | M24308/2-602 | DD26F1F000-50-799.3 | M24308/4-15 | DD78M10000-50 |
| M24308/2-8F | RD25F1000C-50-400.0 | M24308/2-358F | DD15F1F00C-50-400.1 | M24308/2-603 | DD44F1F000-50-799.3 | M24308/4-15F | DD78M1000C-50 |
| M24308/2-9 | RD37F10000-50-400.0 | M24308/2-359 | DD26F1F000-50-400.1 | M24308/2-604 | DD62F1F000-50-799.3 | M24308/4-16 | DD104M10000-50 |
| M24308/2-9F | RD37F1000C-50-400.0 | M24308/2-359F | DD26F1F00C-50-400.1 | M24308/2-605 | DD78F1F000-50-799.3 | M24308/4-16F | DD104M1000C-50 |
| M24308/2-10 | RD50F10000-50-400.0 | M24308/2-360 | DD44F1F000-50-400.1 | M24308/2-606 | DD104F1F000-50-799.3 | M24308/4-17 | DD15M10000-50-400.1 |
| M24308/2-10F | RD50F1000C-50-400.0 | M24308/2-360F | DD44F1F00C-50-400.1 | M24308/2-607 | RD9F0F000-799.2 | M24308/4-17F | DD15M1000C-50-400.1 |
| M24308/2-11 | DD15F10000-50 | M24308/2-361 | DD62F1F000-50-400.1 | M24308/2-608 | RD15F0F000-799.2 | M24308/4-18 | DD26M10000-50-400.1 |
| M24308/2-11F | DD15F1000C-50 | M24308/2-361F | DD62F1F00C-50-400.1 | M24308/2-609 | RD25F0F000-799.2 | M24308/4-18F | DD26M1000C-50-400.1 |
| M24308/2-12 | DD26F10000-50 | M24308/2-362 | DD78F1F000-50-400.1 | M24308/2-610 | RD37F0F000-799.2 | M24308/4-19 | DD44M10000-50-400.1 |
| M24308/2-12F | DD26F1000C-50 | M24308/2-362F | DD78F1F00C-50-400.1 | M24308/2-611 | RD50F0F000-799.2 | M24308/4-19F | DD44M1000C-50-400.1 |
| M24308/2-13 M24308/2-13F | DD44F10000-50 DD44F1000C-50 | M24308/2-363 M24308/2-363F | DD104F1F000-50-400.1 DD104F1F00C-50-400.1 | M24308/2-612 M24308/2-613 | DD15F0F000-799.2 DD26F0F000-799.2 | M24308/4-20 M24308/4-20F | DD62M10000-50-400.1 DD62M1000C-50-400.1 |
| M24308/2-14 | DD441 10000-50 | M24308/2-482 | RD9F0F000 | M24308/2-614 | DD44F0F000-799.2 | M24308/4-201 M24308/4-21 | DD78M10000-50-400.1 |
| M24308/2-14F | DD62F1000C-50 | M24308/2-482F | RD9F0F00C | M24308/2-615 | DD62F0F000-799.2 | M24308/4-21F | DD78M1000C-50-400.1 |
| M24308/2-15 | DD78F10000-50 | M24308/2-483 | RD15F0F000 | M24308/2-616 | DD78F0F000-799.2 | M24308/4-22 | DD104M10000-50-400.1 |
| M24308/2-15F | DD78F1000C-50 | M24308/2-483F | RD15F0F00C | M24308/2-617 | DD104F0F000-799.2 | M24308/4-22F | DD104M1000C-50-400.1 |
| M24308/2-16 | DD104F10000-50 | M24308/2-484 | RD25F0F000 | M24308/3-1 | HDC9M20000-50 | M24308/4-259 | RD9M00000 |
| M24308/2-16F | DD104F1000C-50 | M24308/2-484F | RD25F0F00C | M24308/3-1F | HDC9M2000C-50 | M24308/4-259F | RD9M0000C |
| M24308/2-17 | DD15F10000-50-400.1 | M24308/2-485 | RD37F0F000 | M24308/3-2 | HDC15M20000-50 | M24308/4-260 | RD15M00000 |
| M24308/2-17F | DD15F1000C-50-400.1 | M24308/2-485F | RD37F0F00C | M24308/3-2F | HDC15M2000C-50 | M24308/4-260F | RD15M0000C |
| M24308/2-18 | DD26F10000-50-400.1 | M24308/2-486 | RD50F0F000 | M24308/3-3 | HDC25M20000-50 | M24308/4-261 | RD25M00000 |
| M24308/2-18F | DD26F1000C-50-400.1 | M24308/2-486F | RD50F0F00C | M24308/3-3F | HDC25M2000C-50 | M24308/4-261F | RD25M0000C |
| M24308/2-19 | DD44F10000-50-400.1 | M24308/2-487 M24308/2-487F | DD15F0F000 | M24308/3-4 | HDC37M20000-50 | M24308/4-262 M24308/4-262F | RD37M00000 |
| M24308/2-19F M24308/2-20 | DD44F1000C-50-400.1 DD62F10000-50-400.1 | M24308/2-487F M24308/2-488 | DD15F0F00C DD26F0F000 | M24308/3-4F M24308/3-5 | HDC37M2000C-50 HDC50M20000-50 | M24308/4-262F M24308/4-263 | RD37M0000C RD50M00000 |
| M24308/2-20F | DD62F1000C-50-400.1 | M24308/2-488F | DD26F0F00C | M24308/3-5F | HDC50M2000C-50 | M24308/4-263F | RD50M0000C |
| M24308/2-20F | DD78F10000-50-400.1 | M24308/2-489 | DD28F0F00C DD44F0F000 | M24308/3-12 | HDC9M2F000-50 | M24308/4-263P | DD15M00000 |
| M24308/2-21F | DD78F1000C-50-400.1 | M24308/2-489F | DD44F0F00C | M24308/3-12F | HDC9M2F00C-50 | M24308/4-264F | DD15M0000C |
| M24308/2-22 | DD104F10000-50-400.1 | M24308/2-490 | DD62F0F000 | M24308/3-13 | HDC15M2F000-50 | M24308/4-265 | DD26M00000 |
| M24308/2-22F | DD104F1000C-50-400.1 | M24308/2-490F | DD62F0F00C | M24308/3-13F | HDC15M2F00C-50 | M24308/4-265F | DD26M0000C |
| M24308/2-281 | RD9F00000 | M24308/2-491 | DD78F0F000 | M24308/3-14 | HDC25M2F000-50 | M24308/4-266 | DD44M00000 |
| M24308/2-281F | RD9F0000C | M24308/2-491F | DD78F0F00C | M24308/3-14F | HDC25M2F00C-50 | M24308/4-266F | DD44M0000C |
| M24308/2-282 | RD15F00000 | M24308/2-492 | DD104F0F000 | M24308/3-15 | HDC37M2F000-50 | M24308/4-267 | DD62M00000 |
| M24308/2-282F | RD15F0000C | M24308/2-492F | DD104F0F00C | M24308/3-15F | HDC37M2F00C-50 | M24308/4-267F | DD62M0000C |
| M24308/2-283 | RD25F00000 | M24308/2-516 | RD9F10000-50-799.0 | M24308/3-16 | HDC50M2F000-50 | M24308/4-268 | DD78M00000 |
| M24308/2-283F | RD25F0000C | M24308/2-517 | RD15F10000-50-799.0 | M24308/3-16F | HDC50M2F00C-50 | M24308/4-268F | DD78M0000C |
| M24308/2-284 | RD37F00000 | M24308/2-518 | RD25F10000-50-799.0 | M24308/3-17 | HDC9M2F000-50 | M24308/4-269 | DD104M00000 |
| M24308/2-284F M24308/2-285 | RD37F0000C RD50F00000 | M24308/2-519 M24308/2-520 | RD37F10000-50-799.0 RD50F10000-50-799.0 | M24308/3-17F M24308/3-18 | HDC9M2F00C-50 HDC15M2F000-50 | M24308/4-269F M24308/4-302 | DD104M0000C RD9M1F000-50 |
| M24308/2-285 M24308/2-285F | RD50F0000C | M24308/2-520 | RD9F10000-50-799.0 | M24308/3-18F | HDC15M2F000-50 | M24308/4-302 M24308/4-302F | RD9M1F00C-50 |
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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 | POSITRONIC * | | POSITRONIC * | MILITARY | POSITRONIC * | MILITARY | POSITRONIC * |
|-------------------------------|---|-------------------------------|--|------------------------------|--|--------------------------------|---|
| PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER |
| M24308/4-303 | RD15M1F000-50 | M24308/4-419 | DD44M1F000-50-799.3 | M24308/4-467 | DD104M0F000 | M24308/6-13F | DD44F1000C-50-403.0 |
| M24308/4-303F | RD15M1F00C-50 | M24308/4-420 | DD62M1F000-50-799.3 | M24308/4-467F | DD104M0F00C | M24308/6-13P | DD44F1000S-50 |
| M24308/4-304 | RD25M1F000-50 | M24308/4-421 | DD78M1F000-50-799.3 | M24308/5-1 | HDC9F20000-50-403.0 | M24308/6-14 | DD62F10000-50-403.0 |
| M24308/4-304F M24308/4-305 | RD25M1F00C-50 | M24308/4-422 M24308/4-423 | DD104M1F000-50-799.3 | M24308/5-1F M24308/5-1P | HDC9F2000C-50-403.0 HDC9F2000S-50 | M24308/6-14F M24308/6-14P | DD62F1000C-50-403.0 DD62F1000S-50 |
| M24308/4-305F | RD37M1F000-50 RD37M1F00C-50 | M24308/4-423 M24308/4-424 | RD9M0F000-799.2 RD15M0F000-799.2 | M24308/5-2 | HDC9F20003-50 HDC15F20000-50-403.0 | M24308/6-15 | DD78F10000-50-403.0 |
| M24308/4-306 | RD50M1F000-50 | M24308/4-425 | RD25M0F000-799.2 | M24308/5-2F | HDC15F2000C-50-403.0 | M24308/6-15F | DD78F1000C-50-403.0 |
| M24308/4-306F | RD50M1F00C-50 | M24308/4-426 | RD37M0F000-799.2 | M24308/5-2P | HDC15F2000S-50 | M24308/6-15P | DD78F1000S-50 |
| M24308/4-313 | RD9M1F000-50-400.0 | M24308/4-427 | RD50M0F000-799.2 | M24308/5-3 | HDC25F20000-50-403.0 | M24308/6-16 | DD104F10000-50-403.0 |
| M24308/4-313F M24308/4-314 | RD9M1F00C-50-400.0 RD15M1F000-50-400.0 | M24308/4-428 M24308/4-429 | DD15M0F000-799.2 DD26M0F000-799.2 | M24308/5-3F M24308/5-3P | HDC25F2000C-50-403.0 HDC25F2000S-50 | M24308/6-16F M24308/6-16P | DD104F1000C-50-403.0 DD104F1000S-50 |
| M24308/4-314F | RD15M1F00C-50-400.0 | M24308/4-430 | DD244M0F000-799.2 | M24308/5-4 | HDC37F20000-50-403.0 | M24308/6-17 | DD15F10000-50-403.2 |
| M24308/4-315 | RD25M1F000-50-400.0 | M24308/4-431 | DD62M0F000-799.2 | M24308/5-4F | HDC37F2000C-50-403.0 | M24308/6-17F | DD15F1000C-50-403.2 |
| M24308/4-315F | RD25M1F00C-50-400.0 | M24308/4-432 | DD78M0F000-799.2 | M24308/5-4P | HDC37F2000S-50 | M24308/6-17P | DD15F1000S-50-400.1 |
| M24308/4-316 M24308/4-316F | RD37M1F000-50-400.0 RD37M1F00C-50-400.0 | M24308/4-433 M24308/4-435 | DD104M0F000-799.2 RD9M1F000-50 | M24308/5-5 M24308/5-5F | HDC50F20000-50-403.0 HDC50F2000C-50-403.0 | M24308/6-18 M24308/6-18F | DD26F10000-50-403.2 DD26F1000C-50-403.2 |
| M24308/4-317 | RD50M1F00C-50-400.0 | M24308/4-435 M24308/4-435F | RD9M1F000-50 | M24308/5-5P | HDC50F2000C-50-403.0 HDC50F2000S-50 | M24308/6-18P | DD26F1000C-50-403.2 DD26F1000S-50-400.1 |
| M24308/4-317F | RD50M1F00C-50-400.0 | M24308/4-436 | RD15M1F000-50 | M24308/5-23 | HDC9F2F000-50-403.0 | M24308/6-19 | DD44F10000-50-403.2 |
| M24308/4-324 | RD9M0F000 | M24308/4-436F | RD15M1F00C-50 | M24308/5-23F | HDC9F2F00C-50-403.0 | M24308/6-19F | DD44F1000C-50-403.2 |
| M24308/4-324F | RD9M0F00C | M24308/4-437 | RD25M1F000-50 | M24308/5-23P | HDC9F2F00S-50 | M24308/6-19P | DD44F1000S-50-400.1 |
| M24308/4-325 M24308/4-325F | RD15M0F000 RD15M0F00C | M24308/4-437F M24308/4-438 | RD25M1F00C-50 RD37M1F000-50 | M24308/5-24 M24308/5-24F | HDC15F2F000-50-403.0 HDC15F2F00C-50-403.0 | M24308/6-20 M24308/6-20F | DD62F10000-50-403.2 DD62F1000C-50-403.2 |
| M24308/4-326 | RD25M0F000 | M24308/4-438F | RD37M1F00C-50 | M24308/5-24P | HDC15F2F00S-50 | M24308/6-20P | DD62F1000S-50-400.1 |
| M24308/4-326F | RD25M0F00C | M24308/4-439 | RD50M1F000-50 | M24308/5-25 | HDC25F2F000-50-403.0 | M24308/6-21 | DD78F10000-50-403.2 |
| M24308/4-327 | RD37M0F000 | M24308/4-439F | RD50M1F00C-50 | M24308/5-25F | HDC25F2F00C-50-403.0 | M24308/6-21F | DD78F1000C-50-403.2 |
| M24308/4-327F M24308/4-328 | RD37M0F00C RD50M0F000 | M24308/4-440 M24308/4-440F | DD15M10000-50 DD15M1000C-50 | M24308/5-25P M24308/5-26 | HDC25F2F00S-50 HDC37F2F000-50-403.0 | M24308/6-21P M24308/6-22 | DD78F1000S-50-400.1 DD104F10000-50-403.2 |
| M24308/4-328F | RD50M0F00C | M24308/4-440P | DD15M10000-50 | M24308/5-26F | HDC37F2F000-50-403.0 HDC37F2F00C-50-403.0 | M24308/6-22F | DD104F1000C-50-403.2 |
| M24308/4-335 | RD9M10000-50-799.0 | M24308/4-441F | DD26M1000C-50 | M24308/5-26P | HDC37F2F00S-50 | M24308/6-22P | DD104F1000S-50-400.1 |
| M24308/4-336 | RD15M10000-50-799.0 | M24308/4-442 | DD44M10000-50 | M24308/5-27 | HDC50F2F000-50-403.0 | M24308/6-281 | RD9F00000-403.0 |
| M24308/4-337 M24308/4-338 | RD25M10000-50-799.0 | M24308/4-442F | DD44M1000C-50 | M24308/5-27F | HDC50F2F00C-50-403.0 | M24308/6-281F | RD9F0000C-403.0 |
| M24308/4-338 M24308/4-339 | RD37M10000-50-799.0 RD50M10000-50-799.0 | M24308/4-443 M24308/4-443F | DD62M10000-50 DD62M1000C-50 | M24308/5-27P M24308/5-34 | HDC50F2F00S-50 HDC9F20000-50-403.3 | M24308/6-281P M24308/6-282 | RD9F0000S RD15F00000-403.0 |
| M24308/4-340 | RD9M10000-50-799.1 | M24308/4-444 | DD78M10000-50 | M24308/5-35 | HDC15F20000-50-403.3 | M24308/6-282F | RD15F0000C-403.0 |
| M24308/4-341 | RD15M10000-50-799.1 | M24308/4-444F | DD78M1000C-50 | M24308/5-36 | HDC25F20000-50-403.3 | M24308/6-282P | RD15F0000S |
| M24308/4-342 M24308/4-343 | RD25M10000-50-799.1 | M24308/4-445 M24308/4-445F | DD104M10000-50 | M24308/5-37 M24308/5-38 | HDC37F20000-50-403.3 HDC50F20000-50-403.3 | M24308/6-283 M24308/6-283F | RD25F00000-403.0 RD25F0000C-403.0 |
| M24308/4-343 | RD37M10000-50-799.1 RD50M10000-50-799.1 | M24308/4-446 | DD104M1000C-50 RD9M1F000-50-400.0 | M24308/5-56 | HDC9F2F000-50-403.3 | M24308/6-283P | RD25F0000C-403.0 |
| M24308/4-345 | DD15M10000-50-799.0 | M24308/4-446F | RD9M1F00C-50-400.0 | M24308/5-57 | HDC15F2F000-50-403.4 | M24308/6-284 | RD37F00000-403.0 |
| M24308/4-346 | DD26M10000-50-799.0 | M24308/4-447 | RD15M1F000-50-400.0 | M24308/5-58 | HDC25F2F000-50-403.4 | M24308/6-284F | RD37F0000C-403.0 |
| M24308/4-347 M24308/4-348 | DD44M10000-50-799.0 DD62M10000-50-799.0 | M24308/4-447F M24308/4-448 | RD15M1F00C-50-400.0 RD25M1F000-50-400.0 | M24308/5-59 M24308/5-60 | HDC37F2F000-50-403.4 HDC50F2F000-50-403.4 | M24308/6-284P M24308/6-285 | RD37F0000S RD50F00000-403.0 |
| M24308/4-349 | DD78M10000-50-799.0 | M24308/4-448F | RD25M1F00C-50-400.0 | M24308/6-1 | RD9F10000-50-403.0 | M24308/6-285F | RD50F0000C-403.0 |
| M24308/4-350 | DD104M10000-50-799.0 | M24308/4-449 | RD37M1F000-50-400.0 | M24308/6-1F | RD9F1000C-50-403.0 | M24308/6-285P | RD50F0000S |
| M24308/4-351 | DD15M10000-50-799.1 | M24308/4-449F | RD37M1F00C-50-400.0 | M24308/6-1P | RD9F1000S-50 | M24308/6-286 | DD15F00000-403.0 |
| M24308/4-352 M24308/4-353 | DD26M10000-50-799.1 DD44M10000-50-799.1 | M24308/4-450 M24308/4-450F | RD50M1F000-50-400.0 RD50M1F00C-50-400.0 | M24308/6-2 M24308/6-2F | RD15F10000-50-403.0 RD15F1000C-50-403.0 | M24308/6-286F M24308/6-286P | DD15F0000C-403.0 DD15F0000S |
| M24308/4-354 | DD62M10000-50-799.1 | M24308/4-451 | DD15M1F000-50-400.1 | M24308/6-2P | RD15F1000S-50 | M24308/6-287 | DD26F00000-403.0 |
| M24308/4-355 | DD78M10000-50-799.1 | M24308/4-451F | DD15M1F00C-50-400.1 | M24308/6-3 | RD25F10000-50-403.0 | M24308/6-287F | DD26F0000C-403.0 |
| M24308/4-356 | DD104M10000-50-799.1 | M24308/4-452 | DD26M1F000-50-400.1 | M24308/6-3F | RD25F1000C-50-403.0 | M24308/6-287P | DD26F0000S |
| M24308/4-357 M24308/4-358 | RD9M00000-799.0 RD15M00000-799.0 | M24308/4-452F M24308/4-453 | DD26M1F00C-50-400.1 DD44M1F000-50-400.1 | M24308/6-3P M24308/6-4 | RD25F1000S-50 RD37F10000-50-403.0 | M24308/6-288 M24308/6-288F | DD44F00000-403.0 DD44F0000C-403.0 |
| M24308/4-359 | RD25M00000-799.0 | M24308/4-453F | DD44M1F00C-50-400.1 | M24308/6-4F | RD37F1000C-50-403.0 | M24308/6-288P | DD44F0000S |
| M24308/4-360 | RD37M00000-799.0 | M24308/4-454 | DD62M1F000-50-400.1 | M24308/6-4P | RD37F1000S-50 | M24308/6-289 | DD62F00000-403.0 |
| M24308/4-361 | RD50M00000-799.0 | M24308/4-454F | DD62M1F00C-50-400.1 | M24308/6-5 | RD50F10000-50-403.0 | M24308/6-289F | DD62F0000C-403.0 |
| M24308/4-362 M24308/4-363 | DD15M00000-799.0 DD26M00000-799.0 | M24308/4-455 M24308/4-455F | DD78M1F000-50-400.1 DD78M1F00C-50-400.1 | M24308/6-5F M24308/6-5P | RD50F1000C-50-403.0 RD50F1000S-50 | M24308/6-289P M24308/6-290 | DD62F0000S DD78F00000-403.0 |
| M24308/4-364 | DD44M00000-799.0 | M24308/4-456 | DD104M1F000-50-400.1 | M24308/6-6 | RD9F10000-50-403.1 | M24308/6-290F | DD78F0000C-403.0 |
| M24308/4-365 | DD62M00000-799.0 | M24308/4-456F | DD104M1F00C-50-400.1 | M24308/6-6F | RD9F1000C-50-403.1 | M24308/6-290P | DD78F0000S |
| M24308/4-366 | DD78M00000-799.0 | M24308/4-457 | RD9M0F000 | M24308/6-6P | RD9F1000S-50-400.0 | M24308/6-291 | DD104F00000-403.0 |
| M24308/4-367 M24308/4-401 | DD104M00000-799.0 RD9M1F000-50-799.2 | M24308/4-457F M24308/4-458 | RD9M0F00C RD15M0F000 | M24308/6-7 M24308/6-7F | RD15F10000-50-403.1 RD15F1000C-50-403.1 | M24308/6-291F M24308/6-291P | DD104F0000C-403.0 DD104F0000S |
| M24308/4-402 | RD15M1F000-50-799.2 | M24308/4-458F | RD15M0F00C | M24308/6-7P | RD15F1000S-50-400.0 | M24308/6-453 | RD9F1F000-50-403.0 |
| M24308/4-403 | RD25M1F000-50-799.2 | M24308/4-459 | RD25M0F000 | M24308/6-8 | RD25F10000-50-403.1 | M24308/6-453F | RD9F1F00C-50-403.0 |
| M24308/4-404 | RD37M1F000-50-799.2 | M24308/4-459F | RD25M0F00C | M24308/6-8F | RD25F1000C-50-403.1 | M24308/6-453P | RD9F1F00S-50 |
| M24308/4-405 M24308/4-406 | RD50M1F000-50-799.2 DD15M1F000-50-799.2 | M24308/4-460 M24308/4-460F | RD37M0F000 RD37M0F00C | M24308/6-8P M24308/6-9 | RD25F1000S-50-400.0 RD37F10000-50-403.1 | M24308/6-454 M24308/6-454F | RD15F1F000-50-403.0 RD15F1F00C-50-403.0 |
| M24308/4-407 | DD26M1F000-50-799.2 | M24308/4-461 | RD50M0F000 | M24308/6-9F | RD37F1000C-50-403.1 | M24308/6-454P | RD15F1F00S-50 |
| M24308/4-408 | DD44M1F000-50-799.2 | M24308/4-461F | RD50M0F00C | M24308/6-9P | RD37F1000S-50-400.0 | M24308/6-455 | RD25F1F000-50-403.0 |
| M24308/4-409 | DD62M1F000-50-799.2 | M24308/4-462 | DD15M0F000 | M24308/6-10 | RD50F10000-50-403.1 | M24308/6-455F | RD25F1F00C-50-403.0 |
| M24308/4-410 M24308/4-411 | DD78M1F000-50-799.2 DD104M1F000-50-799.2 | M24308/4-462F M24308/4-463 | DD15M0F00C DD26M0F000 | M24308/6-10F M24308/6-10P | RD50F1000C-50-403.1 RD50F1000S-50-400.0 | M24308/6-455P M24308/6-456 | RD25F1F00S-50 RD37F1F000-50-403.0 |
| M24308/4-412 | RD9M1F000-50-799.3 | M24308/4-463F | DD26M0F00C | M24308/6-11 | DD15F10000-50-403.0 | M24308/6-456F | RD37F1F00C-50-403.0 |
| M24308/4-413 | RD15M1F000-50-799.3 | M24308/4-464 | DD44M0F000 | M24308/6-11F | DD15F1000C-50-403.0 | M24308/6-456P | RD37F1F00S-50 |
| M24308/4-414 | RD25M1F000-50-799.3 | M24308/4-464F | DD44M0F00C | M24308/6-11P | DD15F1000S-50 | M24308/6-457 | RD50F1F000-50-403.0 |
| M24308/4-415 M24308/4-416 | RD37M1F000-50-799.3 RD50M1F000-50-799.3 | M24308/4-465 M24308/4-465F | DD62M0F000 DD62M0F00C | M24308/6-12 M24308/6-12F | DD26F10000-50-403.0 DD26F1000C-50-403.0 | M24308/6-457F M24308/6-457P | RD50F1F00C-50-403.0 RD50F1F00S-50 |
| M24308/4-417 | DD15M1F000-50-799.3 | M24308/4-465P | DD78M0F00C | M24308/6-12P | DD26F1000C-50-403.0 DD26F1000S-50 | M24308/6-458 | DD15F1F000-50-403.0 |
| M24308/4-418 | DD26M1F000-50-799.3 | M24308/4-466F | DD78M0F00C | M24308/6-13 | DD44F10000-50-403.0 | M24308/6-458F | DD15F1F00C-50-403.0 |
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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.

| MAX MAX <th></th> <th></th> <th></th> <th></th> <th></th> <th>29 per test report number 3</th> <th></th> <th></th> | | | | | | 29 per test report number 3 | | |
|---|------------------------|-------------------------------|------------------------|----------------------|------------------------|-----------------------------|-----------------------|--------------------------------|
| MAXBB3.448 DDDRF IF IND. 64.00. MAXBB3.448 DDAFF IF IND. 64.00. MAXBB3.448 DDAFF IND. 64.00. MAXBB3.448 DDAFF IND. 64.00. MAXB3.448 DDAFF IND. 64.00. MAXB3.448 DDAFF IND. 64.00.0. MAXB3.448 DDAFF IND. 64.00.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | MILITARY PART NUMBE | POSITRONIC * R PART NUMBER | MILITARY PART NUMBE | POSITRONIC * | MILITARY PART NUMBE | R POSITRONIC * | MILITARY PART NUMB | POSITRONIC * ER PART NUMBER |
| bb/bb/bb/bb/bb/bb/bb/bb/bb/bb/bb/bb/bb/ | M24308/6-458P | DD15F1F00S-50 | M24308/6-501P | DD104F0F00S | M24308/7-5P | HDC50M2000S-50 | M24308/8-14F | DD62M1000C-50-403.0 |
| McASSB-1687 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-1687 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 McASSB-168 DDSR-F100S - 0.000 McASSB-178 DDSR-F100S - 0.000 MCASSB-178 DDSR- | | | | | | | | |
| International Det International Rescalaries Det International Det Internatinternal <thd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thd<> | | | | | | | | |
| Mackages-Ger Devel+Trocs-A-MG3 Mackages | | | | | | | | |
| Machaeler, Holl, Disperfrace, Johnson, Machaeler, Mach | | | | | | | | |
| URANDEL-NET DECENTIONS-0440.0 MAXEMBE-60 R022E071005-0440.3 MAXEMBE-60 | | | | | | | | |
| MAXABANE-41P DDDD/F1003-61.00 MAXABARE 40 R023/071400 MAXABARE 417 DD1/M1002-61-40.11 MAXABARE 417 DD1/M1002-61-40.11 MAXABARE 442P DD2/F17003-61-40.01 MAXABARE 410 DD2/F17003-61-40.01 MAXABARE 417 DD1/M1002-61-40.01 MAXABARE 442P DD2/F17003-61-40.01 MAXABARE 410 | | | | | | | | |
| Naccesser-are Accesser-are | | | | | | | | |
| Interstand Interst | | | | | | | | |
| Mc3888-463 D014FFFID0S-0H-403.0 Mc3888-161 DD24FFID0S-0H-403.1 Mc3888-161 DD24FFID0S-0H-403.1 Mc3888-17 DD24FFID0S-0H-403.1 Mc3888-17 DD24FFID0S-0H-403.1 Mc3888-17 DD24FFID0S-0H-403.1 Mc3888-17 DD14FFID0S-0H-403.1 Mc3888-17 DD14FFID | | | | | | | | |
| Mc42808-H3F DD104FFIPUS-04-403.0 Mc42808-F3F DD2F1000-50-403.1 Mc42808-F3F DD2F100 | | | | | | | | |
| IdeAlage-432P DD114FT1005-50 MA23087-616 DD278T0005-69-40.3 MA23087-71 HDCSMP7005-40.3 MA23087-81 DD314T00055-40.3 MA2308-644F RD3FT1005-50-40.3 MA23087-616 DD315T0005-50-40.3 MA23087-617 DD314T00055-40.40.3 MA23087-617 HDC15MF7005-60-40.30 MA23087-617 HDC15MF7005-60-40.30 MA23087-618 DD314T00005-40-40.2 MA23087-618 DD314T00005-40-40.2 MA23087-618 DD314T00005-40-40.2 MA23087-618 DD314T00005-40-40.2 MA23087-618 HDC15MF7005-60-40.3 MA23087-618 HDC15MF7005-60-40.3 MA23087-618 HDC25MF7005-60-40.3 MA23087-618 HDC25MF70 | | | | | | | | |
| Ide23086-44 RD9FTF002-64-01 Mc23087-57 ID14FT0002-64-023 Mc23087-77 IHCCMMET002-64-023 Mc23087-02 ID14FT0002-64-023 Mc23087-77 IHCCMMET002-64-023 Mc23087-02 ID14FT0002-64-023 Mc23087-77 IHCCMMET002-64-023 Mc23087-72 IHCCMMET002-64-0 | | | | | | | | |
| Matsase-440P R09F17005-50-00.0 Matsase-347 DD28F10005-50-00.2 Matsase-347 DD18F10005-50-00.2 Matsase- | | | | | | HDC9M2F000-50-403.0 | | |
| MA2308-465 R015F1000-50-40.3.1 MA2308-620 DDE4F10000-50-40.3.5 MA2308-217 DDE2M10000-50-40.3.1 MA2308-467 R015F100-50-40.3.1 MA2308-521 DDE2M10000-54-00.3.1 MA2308-217 DDE2M10000-54-00.3.1 MA2308-467 R025F1700-50-40.3.1 MA2308-521 DDE2M10000-54-00.3.1 MA2308-217 DDE2M10000-54-00.3.1 MA2308-467 R025F1700-50-40.3.1 MA2308-548 RDE3M1000-54-00.3.1 MA2308-217 DD10M10000-54-00.3.1 MA2308-467 R025F1700-50-40.3.1 MA2308-548 RD5171000-54-00.3.1 MA2308-247 DD10M10000-54-00.3.1 MA2308-467 R025F1700-50-40.3.1 MA2308-548 RD5570000-40.3.3 MA2308-727 DD10M10000-54-00.3.1 MA2308-467 R025F1700-50-40.3.1 MA2308-548 RD5570000-40.3.3 MA2308-727 DD10M10000-54-00.0.1 MA2308-467 R055770000-40.3.3 MA2308-727 DD10M10000-54-00.0.1 MA2308-727 DD10M10000-54-00.0.1 MA2308-467 R055770000-40.3.3 MA2308-727 DD10M10000-54-00.0.1 MA2308-727 DD10M10000-54-00.0.1 MA2308-467 R055777000-50-40.3.1 MA2308-727 | | | | | | | | |
| Mc2308-466 R015F1P0CS-04-03.1 Mc2308-621 DD78110005-04-03.2 Mc2308-21 DD78110005-04-03.2 Mc2308-449 R025F1P0CS-04-03.1 Mc2308-225 DD78110005-04-03.2 Mc2308-217 DD78110005-04-03.2 Mc2308-449 R025F1P0CS-04-03.1 Mc2308-227 DD78110005-04-03.2 Mc2308-217 DD78110005-04-03.2 Mc2308-447 R025F1P0CS-04-03.1 Mc2308-247 DD78110005-04-03.2 Mc2308-27 DD14110005-04-03.2 Mc2308-447 R037F1P0CS-04-03.1 Mc2308-548 RD25P000-40.3 Mc2308-27 DD14110005-04-03.2 Mc2308-447 R037F1P0CS-04-03.1 Mc2308-548 RD25P000-40.3 Mc2308-27 DD14010005-04-03.2 Mc2308-447 R037F1P0CS-04-03.1 Mc2308-547 RD25P000-40.3 Mc2308-27 DD14010005-04-03.2 Mc2308-447 R037F1P0CS-04-03.1 Mc2308-547 RD25P0000-40.3 Mc2308-27 DD14010005-04-03.2 Mc2308-447 RD37F1P0CS-04-03.1 Mc2308-547 RD25P0000-40.3 Mc2308-27 DD14010005-04-03.2 Mc2308-447 RD37F1P0CS-04-03.1 Mc2308-547 RD25P0000-40.3 Mc2308-27 DD14710005-04-03.2 Mc2308-447 RD37F1P0CS-04-03.2 Mc2308-277 PD14710005-04-03.2 Mc2308-277 PD14710005-04-03.2 Mc2308-447 RD37F1P0CS-04-03.2 | | | | | | | | |
| Md3088-489 RD 15F F1002-50-400.1 Md308F-527 DD78F 10002-64-03.5 Md3087-18P HDC12ME/R002-64.03.6 Md308F-27F DD78F 10002-50-400.1 Md308F-48P RD25F F1002-50-40.1 Md348P-27F HDC23ME/R002-64.0.3.0 Md348P-27F DD78F 10002-50-40.3.0 Md308F-48F RD25F F1002-50-40.1 Md348P-27F HDC37ME/R002-64.0.3.0 Md348P-27F DD14M1002-50-40.3.0 Md308F-48F RD25F F1002-50-40.1 Md348P-24F HDC37ME/R002-64.0.3.0 Md348P-22F DD14M1002-50-40.3.0 Md308F-48F RD25F F1002-50-40.0 Md348P-24F HDC37ME/R002-64.0.3.0 Md348P-22F DD14M1002-50-40.3.0 Md308F-48F RD25F F1002-50-40.0 Md348P-24F HDC37ME/R002-64.0.0 Md348P-24F H | | | | | | | | |
| Md308-466F RD2F1F10C 50-40.01 Md308F-87 RD2F0000-40.3.3 Md3087-19F HDC25M/2000-50-40.3.0 Md308F-82 DD104M10000-50-40.3.2 Md308F-467 RD27F1100F-50-40.3.1 Md308F-82 DD104M10000-50-40.3.2 Md308F-82 DD104M10000-50-40.3.2 Md308F-477 RD37F1100F-50-40.3.1 Md308F-82 DD104M10000-50-40.3.2 Md308F-82 DD104M10000-50-40.3.2 Md308F-487 RD27F1100F-50-40.3.1 Md308F-64 DD10F10000-40.3.3 Md308F-82 DD104M0000-50-40.3.2 Md308F-487 RD20F1100C-50-40.3.1 Md308F-64 DD10F0000-40.3.3 Md308F-27 HDC50M200-60-40.3.0 Md308F-82F RD116M0000-40.3.0 Md308F-487 RD20F1100C-50-40.2.2 Md308F-64 DD14F0000-40.3.3 Md308F-28F HDC50M2000-40.3.3 Md308F-28F RD116M0000-40.3.3 Md308F-487 RD20F1100C-50-40.2.2 Md308F-54 DD14F10000-40.3.3 Md308F-28F RD216M000-40.3.3 Md308F-28F RD216M000-40.3.3 Md308F-28F RD216M000-40.3.3 Md308F-28F RD25M0000-40.3.3 Md308F-28F RD25M0000-40.3.3 Md308F-28F RD25M0000-40.3.3 Md308F-28F RD25M0000-40.3.3 | | | | | | | | |
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| MA3808-467 RD37F1F00C-940.31 M24808F-37 RD37F1F00C-940.31 M24808F-37 RD37F1F00C-940.30 M24308F-26P RD37F000C-940.30 M24308F-26P RD37F000C-940.30 M24308F-26F RD37F000C-940.30 M24308F-26F RD37F000C-940.30 M24308F-26F RD37F000C-940.30 M24308F-26F RD37F000C-940.30 M24308F-26F RD37F000C-940.30 M24308F-26F RD37F000C-940.30 M24308F-27F RD257000C-940.30 M24308F-26F RD37F000C-940.30 | | | | | | | | |
| MA3888-497 RD37F100C-640.3.1 M24388-497 RD37F100C-640.3.0 M24388-297 RD3000C-433.0 M24388-498 RD37F100C-640.0.0 M24388-548 RD37F100C-640.0.0 M24388-297 RD3000C-433.0 M24388-498 RD37F100C-640.0.0 M24388-548 RD37F100C-640.0.0 M24388-549 RD3000C-433.0 M24388-498 RD37F100C-640.0.0 M24388-649 DD15F100C-640.3.0 M24388-649 RD3000C-643.0.0 M24388-498 DD15F100C-640.3.2 M24388-649 DD55F100C-640.3.0 M24388-649 RD30000C-643.0.0 M24388-499 D15F100C-640.3.2 M24388-540 D14F1000C-443.3 M24388-729 RD30000C-643.3 M24388-729 RD30000C-643.3 M24388-729 RD30000C-643.0 M24388-729 RD300000C-643.0 M243888-729 RD300 | | | | | | | | |
| Mc3308-468 RDS0F1F0005-4403.1 Mc3308-549 D15F70000-403.3 Mc33087-21 HDCS0MPF005-6040.3 Mc43088-280 PD15M0000-403.0 Mc33086-468 RD50F1F005-6040.3 Mc43087-21P HDCS0MPF005-6040.3 Mc43088-280P RD15M0000-403.0 Mc33086-469 DD15F1F0005-403.2 Mc43088-649 DD15F1F0005-403.2 Mc43088-767 HDCSM0000-540.3 Mc33086-469 DD15F1F0005-640.3 Mc43088-767 HDCSM20000 54.03.3 Mc43088-767 RD25M0000-540.3 Mc33086-470 DD26F1F0005-640.3 Mc43088-767 HDCSM20000 54-03.3 Mc43088-767 RD25M00005-640.3 Mc43086-477 DD26F1F005-640.3 Mc43088-767 HDCSM20000 54-03.3 Mc43088-767 RD25M00000-540.3 Mc43086-477 DD26F1F005-640.3 Mc43088-767 HDCSM20000-54-03.3 Mc43088-727 RD25M0000C-430.0 Mc43086-477 DD26F1F005-640.1 Mc43088-767 RD25M0000-430.0 Mc43088-727 RD25M0000C-430.0 Mc43088-727 RD25M0000C-430.0 Mc43088-727 RD25M0000C-430.0 Mc43088-727 RD25M0000C-430.0 Mc43088-727 RD25M0000C-430.0 Mc43088-727 RD25M0000C-430.0 | | | | | | | | |
| Md3088-48F RP RD51F100C-60-403.1 Md3087-21F H0C50M270C-51-403.0 Md3088-26F RD15M0000C-403.0 Md3088-46F DD15F1F00C-60-403.2 Md3086-64F D05F1F00C-50-403.2 Md3087-28F H0C50M27005-50 Md3088-26F RD15M000C-403.0 Md3088-47D DD15F1F00C-60-403.2 Md308F-56F RD15F100C-50-403.3 Md308F-72F H0C50M27005-50 Md308F-26F RD15M000C-403.0 Md3088-47D DD26F1F00C-60-403.2 Md308F-56F RD51F100C-50-403.4 Md308F-76F H0C50M27005-94-03.3 Md308F-82F RD52M000C-403.0 Md308F-47F DD26F1F00C-60-403.2 Md308F-56F RD51F100C-50-403.4 Md308F-72F H0C50M2700-54-03.3 Md308F-82F RD57M000C-403.0 Md308F-47F DD44F1F00C-60-403.2 Md308F-56F RD50F1F00C-60-403.4 Md308F-72F H0C50M2700-54-03.4 Md308F-82F RD57M000C-403.0 Md308F-82F RD57M00C-403.0 Md308F-82F RD57M00C-403.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| Mc43086-468 RD50F1F005-60-403.2 Mc4308F-27 PHC2500AF205-50 Mc4308F-20F RD15M000C 4030B-20F RD15M000C 4030B-20F RD15M000C 4030B-20F RD15M000C 4030B-20F RD15M000C 4030B-20F RD15M000C 4030B-20F RD25M000C-403.3 Mc430BF-26F HDC25M2000-50-403.3 Mc430B-20F RD25M000C-403.0 Mc430B-20F RD37M000C-403.0 Mc430B-22F RD25M000C-403.0 Mc430B-23F RD25M000C-403.0 Mc430B-23F RD25M000C-403.0 Mc430B-22F RD37M000C-403.0 Mc430B-22F RD37M000C-403.0 Mc430B-22F RD37M000C-403.0 Mc430B-22F RD37M00C-403.0 Mc430B-22F RD37M00C-403.0 Mc430B-22F RD37M00C-403.0 Mc430B-22F RD37M00C-403.0 Mc430B-22F RD37M00C-403.0 Mc430B-22F RD37M00C-403.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| M243088-499 D15F1F005-04-032 M24308F-49 D02F70000-433 M24308F-73 H0C5M20005-04-03.3 M24308F-28 H0C5M2005-04-03.3 M24308F-28 H0C5M2005-04-03.2 M24308F-28 H0C5M2005-04-03.2 M24308F-28 H0C5M2005-04-03.2 M24308F-28 H0C5M2005-04-03.2 M24308F-28 H0C5M2005-04-03.2 M24308F-28 H0C5M2005-04-03.4 M24308F-28 H0C5M2005-04-03.2 M24308F-28 R025M2005-04-03.4 M24308F-28 R025M2005-04-03.2 M24308F-28 | | | | | | | | |
| Mc43088-649F DD15F1F00C-50-403.2 Mc43086-549 DD78F10000-403.3 Mc43087-25 HDC25MX0000-65-403.3 Mc43088-261 RD23M0000-403.0 Mc43086-470 DD25F1F00C-50-403.2 Mc43086-561 RD9F1F00C-50-403.4 Mc43087-26 HDC25MX0000-60-403.3 Mc43088-261F RD23M0000-403.0 Mc43086-470 DD25F1F00C-50-403.2 Mc43086-551 RD9F1F00C-50-403.4 Mc43087-26 HDC25MX2000-60-403.3 Mc43088-261F RD37M0000-403.0 Mc43086-470 DD25F1F00C-50-403.2 Mc43086-553 RD27F1000-50-403.4 Mc43087-76 HDC25MX2000-50-403.4 Mc43088-263F RD37M00000-403.0 Mc43086-471P DD44F1F00C-50-403.2 Mc43086-565 DD16F1F000-50-403.4 Mc43088-736 HDC23MX200-50-403.0 Mc43088-263F RD50M0000C-403.0 Mc43088-472 DD52F1F00C-50-403.2 Mc43086-565 DD16F1F000-50-403.4 Mc43088-73 HDC53MX200-50-403.0 Mc43088-267F RD50M0000-403.0 Mc43088-268F RD50M0000-403.0 Mc43088-268F RD50M0000-403.0 Mc43088-268F RD50M1000-50-403.0 Mc43088-268F RD50M1000-50-403.0 Mc43088-268F RD50M1000-50-403.0 Mc43088-268F RD50M1000-50 | | | | | | | | |
| Mc34388-470 DD25F1F00-50-403.2 Mc34308-551 RD9F1F000-50-403.4 Mc34308-767 HDC57M2000-65-403.3 Mc34308-82F RD37M0000-403.0 Mc34308-470P DD26F1F005-50-403.1 Mc34308-553 RD27F1F000-50-403.4 Mc34308-75 HDC57M2000-50-403.4 Mc34308-82F RD37M0000C-403.0 Mc34308-471F DD44F1F000-50-403.2 Mc34308-555 RD37F1F000-50-403.4 Mc34308-73 HDC57M200-50-403.4 Mc34308-82F RD37M0000C-403.0 Mc34308-471F DD44F1F000-50-403.2 Mc34308-555 RD57F17000-50-403.4 Mc34308-73 HDC57M200-50-403.4 Mc34308-73 HDC57M200-50-403.4 Mc34308-73 HDC57M200-50-403.0 Mc34308-74 DD14971F000-50-403.4 Mc34308-73 HDC57M200-50-403.0 Mc34308-74 DD14971F000-50-403.4 Mc34308-73 HDC57M200-50-403.0 Mc34308-565 DD24F1F000-50-403.4 Mc34308-73 HDC57M200-50-403.0 Mc34308-74 HD50M1000-50-403.0 Mc34308-565 DD24F1F000-50-403.4 Mc34308-75 HD50M1000-50-403.0 Mc34308-567 DD14971F000-50-403.0 Mc34308-75 HD50M1000-50-403.0 Mc34308-567 DD248M0000-403.0 Mc34308-567 DD248M0000-50-403.0 Mc34308-567 | M24308/6-469F | DD15F1F00C-50-403.2 | M24308/6-549 | DD78F00000-403.3 | M24308/7-24 | HDC15M20000-50-403.3 | M24308/8-261 | RD25M00000-403.0 |
| M43308-470F FDD28F1F00C-50-4032 M43308-562 RD15F1F00C-9-4033 M43308-73 M23308-222 RD37M0000C-403.0 M43308-747 DD44F1F00C-50-4032 M43308-564 RD25F1F00C-9-403.4 M43308-73 M23308-2282 RD37M0000C-403.0 M43308-747 DD44F1F00C-50-403.2 M43308-564 RD25F1F00C-9-403.4 M43308-736 HDC25M2F00C-9-403.4 M43308-282P RD5M0000C-403.0 M43308-472P DD62F1F00C-50-403.2 M43308-565 DD15F1F00C-9-403.4 M43308-738 HDC5M2F00C-9-403.4 M43308-282P RD5M0000C-403.0 M43308-472P DD62F1F00C-50-403.2 M4308-565 DD44F1F00C-9-403.4 M4308-78 HDC5M2F00C-9-403.4 M4308-78 HDC5M00C-50-403.0 M4308-828P DD15M0000C-403.0 M4308-828P DD15M000C-403.0 M4308-828P DD15M1000C-403.0 M4308-78 DD15M1000C-50-403.0 M4308-78 DD15M1000C-50-403.0 M4308-78 DD15M1000C-50-403.0 M4308-828P DD15M1000C-403.0 M4308-828P DD15M1000C-403.0 M4308-828P DD15M1000C-50-403.0 M4308-828P DD15M1000C-50-403.0 M4308-828P DD15M1000C-50-403.0 M43088-828P DD15M1000C-50-403.0 | | | | | | | | |
| M423086-470 DD28F1F005-50-40.1 M423086-563 RD2F1F000-50-40.3.4 M423087-35 HDCIMEP005-00-40.3.4 M423087-25 HDCIMEP005-00-40.3.4 M423087-25 HDCIMEP005-00-40.3.4 M423087-25 HDCIMEP005-00-40.3.4 M423087-25 HDCIMEP005-00-40.3.4 M423087-25 HDCIMEP005-00-40.3.4 M423087-27 HDC25MF2005-00-40.3.4 M423087-23 HDCIMPE005-00-40.3.4 M423087-23 HDCIMPE005-00-40.3.4 M423087-23 HDCIMPE005-00-40.3.4 M423087-23 HDCIMPE005-00-40.3.4 M423087-23 HDCIMPE005-00-40.3.4 M423087-23 HDCIMPE005-00-40.3.4 M423087-23 HDCIMPE000-20-40.3.0 M423087-26 DD28/H0000-20-40.3.0 M423087-26 DD28/H0000-20-40.3.0 M423087-26 DD28/H0000-20-40.3.0 M423087-26 DD28/H0000-20-40.3.0 M423087-26 DD28/H0000-20-40.3.0 M423087-26 DD28/H0000-20-4 | | | | | | | | |
| M243086-471 DD44F1F000-50-403.2 M243086-564 RD37F1F000-50-403.4 M243087-36 HDC15M27000-50-403.4 M243087-36 RDC5M00000-403.0 M243086-471 DD14F1F00-50-403.2 M243087-56 DD25F1F000-50-403.4 M243087-36 HDC37M2F000-50-403.4 M243087-238 RD56M00000C M243086-472 DD25F1F000-50-403.2 M243087-56 DD25F1F000-50-403.4 M243087-38 HDC37M2F000-50-403.0 M243087-238 RD56M0000C M243086-472 DD78F1F000-50-403.2 M243087-56 DD14F1F000-50-403.4 M243087-18 RD5M1000-50-403.0 M243088-24F D15M00000-403.0 M243086-473 DD78F1F000-50-403.2 M243088-565 DD27F1F000-50-403.4 M243087-287 RD5M1000-5.0 M243088-255 DD26M00000-403.0 M243088-474 DD10F1F1000-50-403.2 M243088-565 RD27F1F000-50-403.6 M243088-37 RD25M1000-50-403.0 M243088-265 DD26M00000-403.0 M243088-6747 DD10F1F1000-50-403.6 M243088-567 RD56F1F000-50-403.6 M243088-367 RD25M1000-50-403.0 M243088-265 DD26M00000-403.0 M243088-677 DD167F1000-50-403.6 M243088-567 | | | | | | | | |
| M243086-471 DD 24471F000-50-403.1 M243087-536 FD 2571F000-50-403.4 M243087-337 HD C37M27000-50-403.4 M243087-2387 FD 550M0000C M243086-472 DD 2571F000-50-403.2 M243087-558 DD 4471F000-50-403.4 M243087-337 HD 550M0000C 5-403.0 M2430887-287 PD 550M0000C 5-403.0 M243087-254 DD 550M0000C 5-403.0 M243087-254 DD 550M0000C 5-403.0 M243087-254 DD 550M0000C 5-403.0 M243087-254 DD 550M0000C 5-403.0 M243087-256 DD 550 M243087-256 DD 5471F000-5-403.2 M243087-256 DD 5471F000-5-403.3 M243087-256 DD 250M0000C -403.0 M243087-256 DD 250M0000C -403.0 M243087-256 DD 250M0000C -403.0 M243087-256 DD 250M0000C -403.0 M243087-256 DD 250M000C -403.0 M243087-256 DD 250M000C -403.0 M243087-256 DD 250M000C -403.0 M243087-256 DD 450M000C -403.0 M243087-256 DD 440M000C -403.0 M243087-257 DD 2567000- | | | | RD37F1F000-50-403.4 | | | | |
| M24308/6-472 Db22F1F000-50-403.2 M24308/6-57 Db22F1F000-50-403.4 M24308/6-378 HDC50M2F00-50-403.0 M24308/6-283P RD56M0000-403.0 M24308/6-472P Db22F1F00C-50-403.2 M24308/6-59 Db27F1F000-50-403.4 M24308/6-87 RD9M1000C-50-403.0 M24308/6-284P DD15M00000-403.0 M24308/6-472P DD78F1F00C-50-403.2 M24308/6-56 DD78F1F000-50-403.4 M24308/6-28 RD15M1000C-50-403.0 M24308/6-285 DD28M00000-403.0 M24308/6-474 DD104F1F000-50-403.2 M24308/6-68 RD15F1F000-50-403.6 M24308/6-28 RD15M1000C-50-403.0 M24308/6-285 DD28M00000-403.0 M24308/6-285 DD28M00000-403.0 M24308/6-285 DD28M00000-403.0 M24308/6-286 DD24M00000-403.0 M24308/6-286 DD24M00000-403.0 M24308/6-286 DD44M00000-403.0 M24308/6-286 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| M24308-472F DD62F1F00C-50-403.2 M24308-58 DD14F1F000-50-403.4 M24308-1 RD9M1000C-50-403.0 M24308-264 DD15M0000C-403.0 M24308-473 DD78F1F000-50-403.2 M24308-56 DD78F1F000-50-403.4 M24308-1P RD9M1000C-50-403.0 M24308-264P DD15M00000C-403.0 M24308-473 DD78F1F000-50-403.2 M24308-56 RD9F1F000-50-403.6 M24308-28 RD15M10000-50-403.0 M24308-285F DD28M00000-403.0 M24308-477 DD19F1F1000-50-403.2 M24308-56 RD35F1F000-50-403.6 M24308-28 RD15M10000-50-403.0 M24308-28E DD28M00000-403.0 M24308-47F DD104F1F000-50-403.2 M24308-66 RD55F1F000-50-403.6 M24308-38 RD25M10000-50-403.0 M24308-28E DD44M00000-403.0 M24308-28E DD44M00000-403.0 M24308-28F DD44M00000-403.0 M24308-28F DD44M00000-403.0 M24308-28F DD44M00000-403.0 M24308-28F DD44M00000-403.0 M24308-28F DD14M00000-403.0 M24308-28F DD62M00000-403.0 M24308-28F DD14M00000-403.0 M24308-28F DD14M00000-403.0 M24308-28F DD14M00000-403.0 M24308-28F DD14M00000-403.0 | | | | | | | | |
| M24308/6-42P DD28F1F006-50-40.0.1 M24308/6-559 DD28F1F000-50-40.3.4 M24308/6-1F RD9M1000C-50-40.3.0 M24308/6-2F DD15M0000C-40.3.0 M24308/6-473 DD78F1F00C-50-40.3.4 M24308/6-26 RD15F1F000-50-40.3.4 M24308/6-28 RD15M1000-50-40.3.0 M24308/6-26 RD15F1F000-50-40.3.6 M24308/6-26 RD15F1F000-50-40.3.6 M24308/6-26 RD15F1F000-50-40.3.6 M24308/6-26 RD15F1F000-50-40.3.6 M24308/6-26 RD15F1F000-50-40.3.6 M24308/6-26 RD15F1F000-50-40.3.6 M24308/6-36 RD25F1F000-50-40.3.0 M24308/6-57 RD25F1F000-50-40.3.0 < | | | | | | | | |
| M24308/6-473F DD78F1F00C-50-403.2 M24308/6-561 DD104F1F000-50-403.4 M24308/6-27 RD15M1000C-50-403.0 M24308/6-265 DD28M0000C-403.0 M24308/6-474 DD104F1F00C-50-403.2 M24308/6-568 RD15F11600-50-403.6 M24308/6-27 RD15M1000C-50-403.0 M24308/6-266F DD228M0000C-403.0 M24308/6-474 DD104F1F00C-50-403.2 M24308/6-568 RD25F11600-50-403.6 M24308/6-37 RD25M1000C-50-403.0 M24308/6-266F DD24M10000C-403.0 M24308/6-474P DD104F1F00C-50-403.0 M24308/6-568 RD25F11600-50-403.6 M24308/6-37 RD25M1000C-50-403.0 M24308/6-266F DD24M10000C-50-403.0 M24308/6-267F DD62M0000C-403.0 M24308/6-429 RD3F0F00C-403.0 M24308/6-568 DD26F11600-50-403.6 M24308/6-47 RD37M1000C-50-403.0 M24308/6-267F DD62M0000C-403.0 M24308/6-429 RD15F0F00C-403.0 M24308/6-570 DD26F11600-50-403.6 M24308/6-57 RD37M1000C-50-403.0 M24308/6-287F DD62M0000C-403.0 M24308/6-429F RD15F0F00C-403.0 M24308/6-57 RD35F0F00-403.0 M24308/6-286F DD14M0000C-403.0 M24308/6-58 RD37M10000-50-403.1 | | | | DD62F1F000-50-403.4 | | | | |
| M24308/6-473P DD78F1F005-50-40.1 M24308/6-568 RD5F1F0005-040.3 M24308/6-26F RD15M1000C-50-40.3.0 M24308/6-26F DD28M0000C M24308/6-47F DD104F1F00C-50-40.3.0 M24308/6-56R RD15F117000-50-40.3.6 M24308/8-37 RD25M1000C-50-40.3.0 M24308/8-266F DD44M0000C-40.3.0 M24308/6-417 RD9F0F000-40.3.0 M24308/6-56R RD3F117000-50-40.3.6 M24308/8-37 RD25M1000C-50-40.3.0 M24308/8-266F DD44M0000C-40.3.0 M24308/6-417 RD9F0F00C-40.3.0 M24308/8-568 DD26F11600-50-40.3.6 M24308/8-47 RD37M1000C-50-40.3.0 M24308/8-267 DE026M0000C-40.3.0 M24308/6-428 RD15F0F00-40.3.0 M24308/8-568 DD26F11600-50-40.3.6 M24308/8-47 RD37M1000C-50-40.3.0 M24308/8-267 DE026M0000C-40.3.0 M24308/6-429 RD15F0F00-40.3.0 M24308/8-571 DD78F11600-50-40.3.6 M24308/8-57 RD56M1000C-50-40.3.6 M24308/8-78 RD56M1000C-50-40.3.6 M24308/8-288 DD178M000C-40.3.0 M24308/8-288 DD178M000C-40.3.0 M24308/8-288 DD178M000C-40.3.0 M24308/8-288 DD178M000C-40.3.0 M24308/8-288 DD178M000C-40.3.0 M24308/8-288 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| M24308/6-474 DD104F1F000-50-403.2 M24308/6-654 RD25F1F000-50-403.6 M24308/6-37 RD25M10000-50-403.0 M24308/6-82F DD24M00000-403.0 M24308/6-474F DD104F1F005-50-400.1 M24308/6-566 RD27F1F000-50-403.6 M24308/6-37 RD25M10000-50-403.0 M24308/6-82F DD44M00000-403.0 M24308/6-417F DD104F1F005-50-403.0 M24308/6-566 RD27F1F000-50-403.6 M24308/6-37 RD25M1000-50-403.0 M24308/6-82F DD44M0000-403.0 M24308/6-417F RD3F0F00C-403.0 M24308/6-567 DD15F1F000-50-403.6 M24308/6-47 RD37M1000-50-403.0 M24308/6-82F DD52M0000-403.0 M24308/6-422 RD15F0F00C-403.0 M24308/6-570 DD62F1F000-50-403.6 M24308/6-57 RD56M1000-50-403.0 M24308/6-82F DD72M00000-403.0 M24308/6-432 RD15F0F00-403.0 M24308/6-573 RD25F0F00-403.4 M24308/6-57 RD25F0F00-403.1 M24308/6-82F DD72M00000-403.0 M24308/6-82F DD72M00000-403.0 M24308/6-82F DD104M00000-403.0 M24308/6-82F DD104M00000-403.0 M24308/6-82F DD104M00000-403.0 M24308/6-82F DD104M000000-403.0 M24308/6-82F DD104M0 | | | | | | | | |
| M24308/6-474F DD104F1F00C-50-403.2 M24308/6-656 RD25F1F000-50-403.6 M24308/6-37 RD25M1000C-50-403.0 M24308/6-86 DD44M000C-403.0 M24308/6-491 RD9F0F00C-403.0 M24308/6-566 RD25F1F000-50-403.6 M24308/6-37 RD25M1000C-50-403.0 M24308/8-267 DD26M000C-403.0 M24308/6-491 RD9F0F00C-403.0 M24308/6-568 RD26F1F000-50-403.6 M24308/6-48 RD37M11000C-50-403.0 M24308/8-267 DD52M000C-403.0 M24308/6-492 RD15F0F00C-403.0 M24308/6-569 DD24F1F000-50-403.6 M24308/8-47 RD37M11000C-50-403.0 M24308/8-287 DD57M000000-403.0 M24308/6-492 RD15F0F00C-403.0 M24308/6-570 DD26F1F000-50-403.6 M24308/8-57 RD567M000-50-403.0 M24308/8-288 DD78M00000-403.0 M24308/6-439 RD25F0F00-403.0 M24308/6-57 RD15F0F00-403.0 M24308/8-58 RD50M1000-50-403.1 M24308/8-288 DD78M00005 M24308/6-439 RD25F0F00-403.0 M24308/8-677 RD15F0F00-403.4 M24308/8-67 RD15M1000-50-403.1 M24308/8-289 D104M00000-403.0 M24308/6-439 RD25F0F00-403.0 M24308/8-677 | | | | | | | | |
| M24308/6-491 RD9F0F000-403.0 M24308/6-567 DD15F1F000-50-403.6 M24308/8-3P RD25M10005-50 M24308/8-267 DD62M00000-403.0 M24308/6-491P RD9F0F005 M24308/6-567 DD26F1F000-50-403.6 M24308/8-4P RD37M1000C-50-403.0 M24308/8-267P DD62M00000-403.0 M24308/6-492F RD15F0F00C-403.0 M24308/6-570 DD44F1F000-50-403.6 M24308/8-5F RD37M1000C-50-403.0 M24308/8-268P DD78M00000-403.0 M24308/6-493F RD15F0F00C-403.0 M24308/6-577 DD62F1F000-50-403.6 M24308/8-5F RD50M11000-50-403.0 M24308/8-268P DD78M0000-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/6-57 RD25F0F00-403.4 M24308/8-6F RD9M1000-50-403.1 M24308/8-268P DD104M00000-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/8-578 RD25F0F00-403.4 M24308/8-6F RD9M1000-50-403.1 M24308/8-268P DD104M0000-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/8-578 RD25F0F00-403.4 M24308/8-6F RD9M1000-50-403.1 M24308/8-38 RD9M1000-50-403.1 M24308/8-38 RD14M0000C M24308/8-378 RD54M1000-50-403. | | | | RD25F1F000-50-403.6 | | | | |
| M24308/6-491F RD9F0F00C M24308/6-567 DD15F1F000-50-403.6 M24308/6-48 RD37M1000C-50-403.0 M24308/6-267 DD62M0000C-403.0 M24308/6-492 RD15F0F00-403.0 M24308/6-569 DD44F1F000-50-403.6 M24308/8-47 RD37M1000C-50-403.0 M24308/8-267F DD62M0000C-403.0 M24308/6-492 RD15F0F00C M24308/6-570 DD62F1F000-50-403.6 M24308/8-57 RD50M1000C-50-403.0 M24308/8-268F DD78M0000C-403.0 M24308/6-492 RD15F0F00C M24308/8-57 RD15F0F00C-403.0 M24308/8-57 RD50M1000C-50-403.1 M24308/8-268F DD78M0000C-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/8-57 RD59F0F00-403.4 M24308/8-67 RD9M1000-50-403.1 M24308/8-268F DD104M0000C-403.0 M24308/6-494F RD37F0F00C-403.0 M24308/6-57 RD25F0F000-403.4 M24308/8-67 RD9M1000-50-403.1 M24308/8-268F DD104M0000C-403.0 M24308/6-49F RD37F0F00C-403.0 M24308/6-577 RD55F0F000-403.4 M24308/8-67 RD14308/8-268F DD104M0000C-403.0 M24308/6-49F RD37F0F00C-403.0 M24308/6-577 RD55F0F000-403.4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | |
| M24308/6-491P RD9F0F00S M24308/6-568 DD26F1F000-50-403.6 M24308/8-4F RD37M1000C-50-403.0 M24308/8-267P DD62M0000C-403.0 M24308/6-492P RD15F0F00C-403.0 M24308/6-570 DD62F1F000-50-403.6 M24308/8-5F RD50M1000C-50-403.0 M24308/8-267P DD78M0000C-403.0 M24308/6-492P RD15F0F003 M24308/6-571 DD104F1F000-50-403.6 M24308/8-5F RD50M1000C-50-403.1 M24308/8-268P DD78M0000C-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/6-573 RD9F0F000-403.4 M24308/8-6F RD5M1000C-50-403.1 M24308/8-268P DD14M10000-50-403.3 M24308/6-494F RD37F0F000-403.0 M24308/6-576 RD25F0F00C-403.4 M24308/8-6F RD9M1000C-50-403.1 M24308/8-269P DD14M40000C-40-403.0 M24308/6-494F RD37F0F000-403.0 M24308/6-576 RD25F0F00C-403.4 M24308/8-77 RD15M1000-50-403.1 M24308/8-358 RD9M100005-50-403.1 M24308/6-494F RD37F0F000-403.0 M24308/6-576 RD55F0F000-403.4 M24308/8-77 RD15M1000C-50-403.1 M24308/8-335 RD9M10000-50-403.3 M24308/6-494F RD37F0F000-403.0 M2 | | | | | | | | |
| M24308/6-492 RD15F0F00C-403.0 M24308/6-569 DD42+1F000-50-403.6 M24308/6-570 M24308/6-267P DD78M00000-403.0 M24308/6-492F RD15F0F00C-403.0 M24308/6-571 DD78F1F000-50-403.6 M24308/8-578 RD50M1000C-50-403.0 M24308/8-268F DD78M00000-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/6-572 DD104F1F000-50-403.4 M24308/8-56 RD9M10000-50-403.1 M24308/8-268F DD78M00000-403.0 M24308/6-493F RD25F0F00C-403.0 M24308/6-577 RD15F0F000-403.4 M24308/8-66 RD9M10000-50-403.1 M24308/8-268F DD104M0000C-403.0 M24308/6-494F RD37F0F000-403.0 M24308/6-576 RD37F0F000-403.4 M24308/8-676 RD37M10000-50-403.1 M24308/8-328 RD9M10000-50-403.1 M24308/8-337 RD5M10000-50-403.3 M24308/6-494F RD37F0F000-403.0 M24308/6-578 RD15F0F000-403.4 M24308/8-7F RD15M10000-50-403.1 M24308/8-338 RD15M10000-50-403.3 M24308/6-495F RD560F000-403.0 M24308/6-578 DD15F0F000-403.4 M24308/8-8F RD25M10000-50-403.1 M24308/8-338 RD25M10000-50-403.1 M24308/8-338 RD25M1000-50-40 | | | | | | | | |
| M24308/6-492P RD15F0F00S M24308/6-571 DD78F1F000-50-403.6 M24308/6-5FP RD50M1000C-50-403.0 M24308/6-268F DD78M0000C-403.0 M24308/6-493F RD25F0F00-403.0 M24308/6-573 RD9F0F000-403.4 M24308/6-67 RD9M1000-50-403.1 M24308/8-268P DD14M00000-403.0 M24308/6-494F RD37F0F00-403.0 M24308/6-573 RD9F0F000-403.4 M24308/8-67 RD9M1000-50-403.1 M24308/8-268P DD14M00000-403.0 M24308/6-494F RD37F0F00-403.0 M24308/6-578 RD5F0F000-403.4 M24308/8-67F RD15M10000-50-403.1 M24308/8-338 RD9M1000-50-403.3 M24308/6-494F RD37F0F005 M24308/6-578 DD15F0F000-403.4 M24308/8-7F RD15M10000-50-403.1 M24308/8-338 RD37M10000-50-403.3 M24308/6-495F RD50F0F00S M24308/6-578 DD15F0F000-403.4 M24308/8-8F RD25M10000-50-403.1 M24308/8-338 RD37M10000-50-403.3 M24308/6-495F RD50F0F00S M24308/6-58 DD14F0F000-403.4 M24308/8-8F RD25M10000-50-403.1 M24308/8-337 RD25M10000-50-403.1 M24308/8-337 RD25M10000-50-403.3 M24308/6-496 D15F0F000-403.4< | | | | | | | | DD62M0000S |
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| M24308/6-493F RD25F0F00C-403.0 M24308/6-573 RD9F0F00-403.4 M24308/6-68 RD9M1000-50-403.1 M24308/6-269 DD104M0000-403.0 M24308/6-493F RD37F0F000-403.0 M24308/6-578 RD25F0F000-403.4 M24308/6-6F RD9M1000-50-403.1 M24308/6-269F DD104M0000C-403.0 M24308/6-494F RD37F0F00C-403.0 M24308/6-77 RD57F0F000-403.4 M24308/6-77 RD15M1000-50-403.1 M24308/8-368 RD9M1000-50-403.3 M24308/6-494F RD37F0F00C M24308/6-77 RD50F0F000-403.4 M24308/8-77 RD15M1000-50-403.1 M24308/8-368 RD9M11000-50-403.3 M24308/6-495 RD50F0F00C-403.0 M24308/6-578 DD15F0F000-403.4 M24308/8-77 RD15M1000-50-403.3 M24308/8-338 RD37M1000-50-403.3 M24308/6-495 RD50F0F00C-403.0 M24308/6-578 DD26F0F000-403.4 M24308/8-87 RD25M1000-50-403.1 M24308/8-338 RD37M1000-50-403.3 M24308/6-495 RD50F0F00S M24308/6-581 DD26F0F000-403.4 M24308/8-98 RD25M1000-50-403.1 M24308/8-342 RD5M10000-50-403.5 M24308/6-497F DD15F0F000-403.0 M24308/8-583 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | |
| M24308/6-494 RD37F0F000-403.0 M24308/6-575 RD25F0F000-403.4 M24308/8-6P RD9M1000S-50-400.0 M24308/8-269P DD1040000S M24308/6-494P RD37F0F00C-403.0 M24308/6-576 RD50F0F000-403.4 M24308/8-7F RD15M1000C-50-403.1 M24308/8-336 RD15M10000-50-403.3 M24308/6-495 RD50F0F000-403.0 M24308/6-578 DD15F0F000-403.4 M24308/8-7F RD15M1000C-50-403.1 M24308/8-337 RD25M10000-50-403.3 M24308/6-495F RD50F0F00C-403.0 M24308/6-579 DD26F0F000-403.4 M24308/8-8 RD25M10000-50-403.1 M24308/8-337 RD25M10000-50-403.3 M24308/6-495F RD50F0F00C M24308/6-580 DD44F0F000-403.4 M24308/8-8 RD25M1000C-50-403.1 M24308/8-338 RD37M10000-50-403.3 M24308/6-496F D15F0F00C-403.0 M24308/6-582 DD78F0F000-403.4 M24308/8-9 RD37M1000C-50-403.1 M24308/8-34 RD15M1000-50-403.5 M24308/6-497F DD15F0F00C-403.0 M24308/6-583 DD164F0F000-403.4 M24308/8-9F RD37M1000C-50-403.1 M24308/8-34 RD15M1000-50-403.5 M24308/6-497F DD26F0F00C-403.0 M24308/7-1F <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| M24308/6-494F RD37F0F00C-403.0 M24308/6-576 RD37F0F000-403.4 M24308/8-7 RD15M10000-50-403.1 M24308/8-335 RD9M10000-50-403.3 M24308/6-494F RD37F0F00S M24308/6-577 RD50F0F000-403.4 M24308/8-7F RD15M1000C-50-403.1 M24308/8-336 RD15M10000-50-403.3 M24308/6-495F RD50F0F00C-403.0 M24308/6-579 DD15F0F000-403.4 M24308/8-7F RD15M1000C-50-403.1 M24308/8-337 RD25M110000-50-403.3 M24308/6-495F RD50F0F00S M24308/6-580 DD44F0F000-403.4 M24308/8-8F RD25M11000C-50-403.1 M24308/8-308 RD37M110000-50-403.3 M24308/6-496F DD15F0F00C-403.0 M24308/6-582 DD78F0F000-403.4 M24308/8-8F RD25M11000C-50-403.1 M24308/8-340 RD9M110000-50-403.5 M24308/6-496F D15F0F00C<403.0 | | | | | | | | |
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| M24308/6-498 DD44F0F000-403.0 M24308/7-2 HDC15M2000-50-403.0 M24308/8-10P RD50M1000S-50-400.0 M24308/8-346 DD26M10000-50-403.3 M24308/6-498F DD44F0F00C-403.0 M24308/7-2F HDC15M2000C-50-403.0 M24308/8-11 DD15M1000C-50-403.0 M24308/8-347 DD44M10000-50-403.3 M24308/6-498F DD44F0F00C M24308/7-2P HDC15M2000C-50-403.0 M24308/8-11F DD15M1000C-50-403.0 M24308/8-349 DD62M10000-50-403.3 M24308/6-499F DD62F0F00C-403.0 M24308/7-3F HDC25M2000C-50-403.0 M24308/8-11P DD15M1000C-50-403.0 M24308/8-349 DD78M10000-50-403.3 M24308/6-499F DD62F0F00C-403.0 M24308/7-3F HDC25M2000C-50-403.0 M24308/8-12F DD26M1000-50-403.0 M24308/8-350 DD16M1000-50-403.3 M24308/6-500F DD78F0F000-403.0 M24308/7-3F HDC25M2000S-50 M24308/8-12F DD26M1000C-50-403.0 M24308/8-352 DD16M1000-50-403.5 M24308/6-500F DD78F0F000-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13F DD44M10000-50-403.5 M24308/8-352 DD26M10000-50-403.5 M24308/6-500F DD78F0F00C-403.0 | | | | | | | | |
| M24308/6-498F DD44F0F00C-403.0 M24308/7-2F HDC15M2000C-50-403.0 M24308/8-11 DD15M10000-50-403.0 M24308/8-347 DD44M10000-50-403.3 M24308/6-498F DD44F0F00S M24308/7-2P HDC15M2000C-50-403.0 M24308/8-11F DD15M1000C-50-403.0 M24308/8-348 DD62M10000-50-403.3 M24308/6-499F DD62F0F000-403.0 M24308/7-3F HDC25M2000C-50-403.0 M24308/8-11P DD15M1000C-50-403.0 M24308/8-349 DD78M10000-50-403.3 M24308/6-499F DD62F0F00C-403.0 M24308/7-3F HDC25M2000C-50-403.0 M24308/8-12P DD26M10000-50-403.0 M24308/8-30 DD14M10000-50-403.3 M24308/6-499P DD62F0F00S M24308/7-3F HDC25M2000C-50-403.0 M24308/8-12F DD26M1000C-50-403.0 M24308/8-351 DD15M10000-50-403.5 M24308/6-500P DD78F0F000-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M1000C-50-403.0 M24308/8-352 DD26M10000-50-403.5 M24308/6-500P DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M1000C-50-403.0 M24308/8-354 DD62M1000-50-403.5 M24308/6-500P DD78F0F00C-403 | | | | | | | | |
| M24308/6-498P DD44F0F00S M24308/7-2P HDC15M20005-50 M24308/8-11F DD15M1000C-50-403.0 M24308/8-348 DD62M1000-50-403.3 M24308/6-499P DD62F0F000-403.0 M24308/7-3F HDC25M2000-50-403.0 M24308/8-11P DD15M10005-50 M24308/8-348 DD62M10000-50-403.3 M24308/6-499P DD62F0F00C-403.0 M24308/7-3F HDC25M2000-50-403.0 M24308/8-12P DD26M10000-50-403.0 M24308/8-351 DD15M10000-50-403.3 M24308/6-499P DD62F0F00S M24308/7-3F HDC25M2000C-50-403.0 M24308/8-12P DD26M1000C-50-403.0 M24308/8-351 DD15M10000-50-403.5 M24308/6-500 DD78F0F000-403.0 M24308/7-4F HDC37M2000-50-403.0 M24308/8-12P DD26M1000S-50 M24308/8-352 DD26M10000-50-403.0 M24308/6-500F DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13P DD44M1000C-50-403.0 M24308/8-352 DD26M10000-50-403.0 M24308/6-500F DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13P DD44M1000C-50-403.0 M24308/8-354 DD44M10000-50-403.0 M24308/6-501P DD78F0F000-403.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | |
| M24308/6-499F DD62F0F00C-403.0 M24308/7-3F HDC25M2000C-50-403.0 M24308/8-12 DD26M10000-50-403.0 M24308/8-350 DD104M10000-50-403.3 M24308/6-499P DD62F0F00S M24308/7-3P HDC25M2000S-50 M24308/8-12F DD26M1000C-50-403.0 M24308/8-351 DD15M10000-50-403.5 M24308/6-500F DD78F0F000-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-12F DD26M1000C-50-403.0 M24308/8-352 DD26M10000-50-403.5 M24308/6-500F DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M10000-50-403.0 M24308/8-353 DD44M10000-50-403.5 M24308/6-500F DD78F0F00S M24308/7-4F HDC37M2000S-50 M24308/8-13F DD44M1000C-50-403.0 M24308/8-354 DD62M1000-50-403.5 M24308/6-501F DD104F0F000-403.0 M24308/7-5F HDC50M2000-50-403.0 M24308/8-13F DD44M1000C-50-403.0 M24308/8-355 DD62M10000-50-403.5 M24308/6-501 DD104F0F000-403.0 M24308/7-5F HDC50M2000-50-403.0 M24308/8-13F DD44M1000S-50 M24308/8-355 DD78M10000-50-403.5 | M24308/6-498P | | M24308/7-2P | HDC15M2000S-50 | M24308/8-11F | DD15M1000C-50-403.0 | M24308/8-348 | DD62M10000-50-403.3 |
| M24308/6-499P DD62F0F00S M24308/7-3P HDC25M2000S-50 M24308/8-12F DD26M1000C-50-403.0 M24308/8-351 DD15M1000-50-403.5 M24308/6-500F DD78F0F000-403.0 M24308/7-4 HDC37M2000-50-403.0 M24308/8-12P DD26M1000C-50-403.0 M24308/8-352 DD26M10000-50-403.5 M24308/6-500F DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M1000C-50-403.0 M24308/8-354 DD62M1000-50-403.5 M24308/6-500F DD78F0F00S M24308/7-4F HDC37M2000S-50 M24308/8-13F DD44M1000C-50-403.0 M24308/8-354 DD62M1000-50-403.5 M24308/6-501F DD104F0F000-403.0 M24308/7-5F HDC50M2000-50-403.0 M24308/8-13F DD44M1000C-50-403.0 M24308/8-354 DD62M1000-50-403.5 M24308/6-501F DD104F0F000-403.0 M24308/7-5F HDC50M2000-50-403.0 M24308/8-13F DD44M1000C-50-403.0 M24308/8-355 DD78M10000-50-403.5 | | | | | | | | |
| M24308/6-500 DD78F0F000-403.0 M24308/7-4 HDC37M20000-50-403.0 M24308/8-12P DD26M1000S-50 M24308/8-352 DD26M10000-50-403.5 M24308/6-500F DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M1000C-50-403.0 M24308/8-353 DD44M10000-50-403.5 M24308/6-500F DD78F0F00S M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M1000C-50-403.0 M24308/8-354 DD24M10000-50-403.5 M24308/6-501F DD78F0F00-403.0 M24308/7-5F HDC50M2000-50-403.0 M24308/8-13F DD44M1000C-50-403.0 M24308/8-355 DD78M10000-50-403.5 M24308/6-501F DD104F0F000-403.0 M24308/7-5F HDC50M2000-50-403.0 M24308/8-13F DD44M1000C-50-403.0 M24308/8-355 DD78M10000-50-403.5 | | | | | | | | |
| M24308/6-500F DD78F0F00C-403.0 M24308/7-4F HDC37M2000C-50-403.0 M24308/8-13 DD44M1000-50-403.0 M24308/8-353 DD44M1000-50-403.5 M24308/6-500P DD78F0F00S M24308/7-4P HDC37M2000S-50 M24308/8-13F DD44M1000C-50-403.0 M24308/8-354 DD62M10000-50-403.5 M24308/6-501 DD104F0F000-403.0 M24308/7-5F HDC50M20000-50-403.0 M24308/8-13P DD44M1000S-50 M24308/8-355 DD78M10000-50-403.5 | | | | | | | | |
| M24308/6-501 DD104F0F000-403.0 M24308/7-5 HDC50M20000-50-403.0 M24308/8-13P DD44M1000S-50 M24308/8-355 DD78M10000-50-403.5 | M24308/6-500F | DD78F0F00C-403.0 | M24308/7-4F | HDC37M2000C-50-403.0 | M24308/8-13 | DD44M10000-50-403.0 | | |
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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.

| | Positr | onic RD Series con | tacts are Q.P.L. approve | d to MIL-C-39029 p | per test report number 39 | 029-694-79. | |
|-------------------------------|--|--------------------------------|--|--------------------------------|--|--------------------------------|--|
| MILITARY | POSITRONIC * | MILITARY | POSITRONIC * | MILITARY | POSITRONIC * | MILITARY | POSITRONIC * |
| PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER |
| M24308/8-357 | RD9M00000-403.3 | M24308/8-447 | RD15M1F000-50-403.1 | M24308/23-7P | HDC9F3P00S-50-375.10 | M24308/23-39F | HDC25F5B800C-50-376.5 |
| M24308/8-358 | RD15M00000-403.3 | M24308/8-447F | RD15M1F00C-50-403.1 | M24308/23-8 | HDC15F3P000-50-375.10 | M24308/23-39P | HDC25F5B800S-50-376.5 |
| M24308/8-359 | RD25M00000-403.3 | M24308/8-447P | RD15M1F00S-50-400.0 | M24308/23-8F | HDC15F3P00C-50-375.10 | M24308/23-40 | HDC37F5B8000-50-376.5 |
| M24308/8-360 | RD37M00000-403.3 | M24308/8-448 | RD25M1F000-50-403.1 | M24308/23-8P | HDC15F3P00S-50-375.10 | M24308/23-40F | HDC37F5B800C-50-376.5 |
| M24308/8-361 | RD50M00000-403.3 | M24308/8-448F | RD25M1F00C-50-403.1 | M24308/23-9 | HDC25F3P000-50-375.10 | M24308/23-40P | HDC37F5B800S-50-376.5 |
| M24308/8-362 | DD15M00000-403.3 | M24308/8-448P | RD25M1F00S-50-400.0 | M24308/23-9F | HDC25F3P00C-50-375.10 | M24308/23-41 | HDC50F5B8000-50-376.5 |
| M24308/8-363 | DD26M00000-403.3 | M24308/8-449 | RD37M1F000-50-403.1 | M24308/23-9P | HDC25F3P00S-50-375.10 | M24308/23-41F | HDC50F5B800C-50-376.5 |
| M24308/8-364 M24308/8-365 | DD44M00000-403.3 DD62M00000-403.3 | M24308/8-449F M24308/8-449P | RD37M1F00C-50-403.1 RD37M1F00S-50-400.0 | M24308/23-10 M24308/23-10F | HDC37F3P000-50-375.10 HDC37F3P00C-50-375.10 | M24308/23-41P M24308/23-43 | HDC50F5B800S-50-376.5 HDC9F5B8000-50-376.2 |
| M24308/8-366 | DD78M00000-403.3 | M24308/8-450 | RD50M1F000-50-400.0 | M24308/23-10P | HDC37F3P00C-50-375.10 HDC37F3P00S-50-375.10 | M24308/23-43 M24308/23-43F | HDC9F5B800C-50-376.2 |
| M24308/8-367 | DD104M00000-403.3 | M24308/8-450F | RD50M1F00C-50-403.1 | M24308/23-11 | HDC50F3P000-50-375.10 | M24308/23-43P | HDC9F5B800S-50-376.2 |
| M24308/8-401 | RD9M1F000-50-403.4 | M24308/8-450P | RD50M1F00S-50-400.0 | M24308/23-11F | HDC50F3P00C-50-375.10 | M24308/23-44 | HDC15F5B8000-50-376.2 |
| M24308/8-402 | RD15M1F000-50-403.4 | M24308/8-451 | DD15M1F000-50-403.2 | M24308/23-11P | HDC50F3P00S-50-375.10 | M24308/23-44F | HDC15F5B800C-50-376.2 |
| M24308/8-403 | RD25M1F000-50-403.4 | M24308/8-451F | DD15M1F00C-50-403.2 | M24308/23-13 | HDC9F3P000-50-375.2 | M24308/23-44P | HDC15F5B800S-50-376.2 |
| M24308/8-404 | RD37M1F000-50-403.4 | M24308/8-451P | DD15M1F00S-50-400.1 | M24308/23-13F | HDC9F3P00C-50-375.2 | M24308/23-45 | HDC25F5B8000-50-376.2 |
| M24308/8-405 | RD50M1F000-50-403.4 | M24308/8-452 | DD26M1F000-50-403.2 | M24308/23-13P | HDC9F3P00S-50-375.2 | M24308/23-45F | HDC25F5B800C-50-376.2 |
| M24308/8-406 | DD15M1F000-50-403.4 | M24308/8-452F | DD26M1F00C-50-403.2 | M24308/23-14 | HDC15F3P000-50-375.2 | M24308/23-45P | HDC25F5B800S-50-376.2 |
| M24308/8-407 | DD26M1F000-50-403.4 | M24308/8-452P | DD26M1F00S-50-400.1 | M24308/23-14F | HDC15F3P00C-50-375.2 | M24308/23-46 | HDC37F5B8000-50-376.2 |
| M24308/8-408 | DD44M1F000-50-403.4 | M24308/8-453 | DD44M1F000-50-403.2 | M24308/23-14P | HDC15F3P00S-50-375.2 | M24308/23-46F | HDC37F5B800C-50-376.2 |
| M24308/8-409 | DD62M1F000-50-403.4 | M24308/8-453F | DD44M1F00C-50-403.2 | M24308/23-15 | HDC25F3P000-50-375.2 | M24308/23-46P | HDC37F5B800S-50-376.2 |
| M24308/8-410 | DD78M1F000-50-403.4 | M24308/8-453P | DD44M1F00S-50-400.1 | M24308/23-15F | HDC25F3P00C-50-375.2 | M24308/23-47 | HDC50F5B8000-50-376.2 |
| M24308/8-411 M24308/8-412 | DD104M1F000-50-403.4 RD9M1F000-50-403.6 | M24308/8-454 M24308/8-454F | DD62M1F000-50-403.2 DD62M1F00C-50-403.2 | M24308/23-15P M24308/23-16 | HDC25F3P00S-50-375.2 HDC37F3P000-50-375.2 | M24308/23-47F M24308/23-47P | HDC50F5B800C-50-376.2 HDC50F5B800S-50-376.2 |
| M24308/8-412 M24308/8-413 | RD9M1F000-50-403.6 RD15M1F000-50-403.6 | M24308/8-454F M24308/8-454P | DD62M1F00C-50-403.2 DD62M1F00S-50-400.1 | M24308/23-16 M24308/23-16F | HDC37F3P000-50-375.2 HDC37F3P00C-50-375.2 | M24308/23-47P M24308/23-49 | HDC50F5B800S-50-376.2 HDC9F5B8000-50-376.8 |
| M24308/8-413 M24308/8-414 | RD25M1F000-50-403.6 | M24308/8-455 | DD62M1F00S-50-400.1 DD78M1F000-50-403.2 | M24308/23-16P | HDC37F3P00C-50-375.2 HDC37F3P00S-50-375.2 | M24308/23-49 M24308/23-49F | HDC9F5B800C-50-376.8 |
| M24308/8-415 | RD25M1F000-50-403.6 | M24308/8-455F | DD78M1F00C-50-403.2 | M24308/23-10P | HDC50F3P000-50-375.2 | M24308/23-49P | HDC9F5B800C-50-376.8 |
| M24308/8-416 | RD50M1F000-50-403.6 | M24308/8-455P | DD78M1F00S-50-400.1 | M24308/23-17F | HDC50F3P00C-50-375.2 | M24308/23-49F | HDC15F5B8000-50-376.8 |
| M24308/8-417 | DD15M1F000-50-403.6 | M24308/8-456 | DD104M1F000-50-403.2 | M24308/23-17P | HDC50F3P00S-50-375.2 | M24308/23-50F | HDC15F5B800C-50-376.8 |
| M24308/8-418 | DD26M1F000-50-403.6 | M24308/8-456F | DD104M1F00C-50-403.2 | M24308/23-19 | HDC9F3P000-50-375.9 | M24308/23-50P | HDC15F5B800S-50-376.8 |
| M24308/8-419 | DD44M1F000-50-403.6 | M24308/8-456P | DD104M1F00S-50-400.1 | M24308/23-19F | HDC9F3P00C-50-375.9 | M24308/23-51 | HDC25F5B8000-50-376.8 |
| M24308/8-420 | DD62M1F000-50-403.6 | M24308/8-457 | RD9M0F000-403.0 | M24308/23-19P | HDC9F3P00S-50-375.9 | M24308/23-51F | HDC25F5B800C-50-376.8 |
| M24308/8-421 | DD78M1F000-50-403.6 | M24308/8-457F | RD9M0F00C-403.0 | M24308/23-20 | HDC15F3P000-50-375.9 | M24308/23-51P | HDC25F5B800S-50-376.8 |
| M24308/8-422 | DD104M1F000-50-403.6 | M24308/8-457P | RD9M0F00S | M24308/23-20F | HDC15F3P00C-50-375.9 | M24308/23-52 | HDC37F5B8000-50-376.8 |
| M24308/8-423 | RD9M0F000-403.4 | M24308/8-458 | RD15M0F000-403.0 | M24308/23-20P | HDC15F3P00S-50-375.9 | M24308/23-52F | HDC37F5B800C-50-376.8 |
| M24308/8-424 | RD15M0F000-403.4 | M24308/8-458F | RD15M0F00C-403.0 | M24308/23-21 | HDC25F3P000-50-375.9 | M24308/23-52P | HDC37F5B800S-50-376.8 |
| M24308/8-425 | RD25M0F000-403.4 | M24308/8-458P | RD15M0F00S | M24308/23-21F | HDC25F3P00C-50-375.9 | M24308/23-53 | HDC50F5B8000-50-376.8 |
| M24308/8-426 | RD37M0F000-403.4 | M24308/8-459 | RD25M0F000-403.0 | M24308/23-21P | HDC25F3P00S-50-375.9 | M24308/23-53F | HDC50F5B800C-50-376.8 |
| M24308/8-427 | RD50M0F000-403.4 | M24308/8-459F | RD25M0F00C-403.0 | M24308/23-22 | HDC37F3P000-50-375.9 | M24308/23-53P | HDC50F5B800S-50-376.8 |
| M24308/8-428 | DD15M0F000-403.4 | M24308/8-459P | RD25M0F00S | M24308/23-22F | HDC37F3P00C-50-375.9 | M24308/23-55 | HDC9F5B8000-50-376.7 |
| M24308/8-429 M24308/8-430 | DD26M0F000-403.4 DD44M0F000-403.4 | M24308/8-460 M24308/8-460F | RD37M0F000-403.0 RD37M0F00C-403.0 | M24308/23-22P M24308/23-23 | HDC37F3P00S-50-375.9 HDC50F3P000-50-375.9 | M24308/23-55F M24308/23-55P | HDC9F5B800C-50-376.7 HDC9F5B800S-50-376.7 |
| M24308/8-430 | DD44100F000-403.4 DD62M0F000-403.4 | M24308/8-460P | RD37M0F00C-403.0 RD37M0F00S | M24308/23-23F | HDC50F3P000-50-375.9 | M24308/23-55P | HDC9F5B8000-50-376.7 HDC15F5B8000-50-376.7 |
| M24308/8-432 | DD78M0F000-403.4 | M24308/8-461 | RD50M0F000-403.0 | M24308/23-23P | HDC50F3P00S-50-375.9 | M24308/23-56F | HDC15F5B800C-50-376.7 |
| M24308/8-433 | DD104M0F000-403.4 | M24308/8-461F | RD50M0F00C-403.0 | M24308/23-25 | HDC9F5B8000-50-376.6 | M24308/23-56P | HDC15F5B800S-50-376.7 |
| M24308/8-435 | RD9M1F000-50-403.0 | M24308/8-461P | RD50M0F00S | M24308/23-25F | HDC9F5B800C-50-376.6 | M24308/23-57 | HDC25F5B8000-50-376.7 |
| M24308/8-435F | RD9M1F00C-50-403.0 | M24308/8-462 | DD15M0F000-403.0 | M24308/23-25P | HDC9F5B800S-50-376.6 | M24308/23-57F | HDC25F5B800C-50-376.7 |
| M24308/8-435P | RD9M1F00S-50 | M24308/8-462F | DD15M0F00C-403.0 | M24308/23-26 | HDC15F5B8000-50-376.6 | M24308/23-57P | HDC25F5B800S-50-376.7 |
| M24308/8-436 | RD15M1F000-50-403.0 | M24308/8-462P | DD15M0F00S | M24308/23-26F | HDC15F5B800C-50-376.6 | M24308/23-58 | HDC37F5B8000-50-376.7 |
| M24308/8-436F | RD15M1F00C-50-403.0 | M24608/8-463 | DD26M0F000-403.0 | M24308/23-26P | HDC15F5B800S-50-376.6 | M24308/23-58F | HDC37F5B800C-50-376.7 |
| M24308/8-436P | RD15M1F00S-50 | M24308/8-463F | DD26M0F00C-403.0 | M24308/23-27 | HDC25F5B8000-50-376.6 | M24308/23-58P | HDC37F5B800S-50-376.7 |
| M24308/8-437 | RD25M1F000-50-403.0 | M24308/8-463P | DD26M0F00S | M24308/23-27F | HDC25F5B800C-50-376.6 | M24308/23-59 | HDC50F5B8000-50-376.7 |
| M24308/8-437F | RD25M1F00C-50-403.0 | M24308/8-464 | DD44M0F000-403.0 | M24308/23-27P | HDC25F5B800S-50-376.6 | M24308/23-59F | HDC50F5B800C-50-376.7 |
| M24308/8-437P | RD25M1F00S-50 | M24308/8-464F | DD44M0F00C-403.0 | M24308/23-28 | HDC37F5B8000-50-376.6 | M24308/23-59P | HDC50F5B800S-50-376.7 |
| M24308/8-438 M24308/8-438F | RD37M1F000-50-403.0 RD37M1F00C-50-403.0 | M24308/8-464P M24308/8-465 | DD44M0F00S DD62M0F000-403.0 | M24308/23-28F M24308/23-28P | HDC37F5B800C-50-376.6 HDC37F5B800S-50-376.6 | M24308/23-61 M24308/23-61F | DD15F3P000-50 DD15F3P00C-50 |
| M24308/8-438P | RD37M1F00S-50 | M24308/8-465F | DD62M0F00C-403.0 | M24308/23-28P | HDC50F5B8000-50-376.6 | M24308/23-61P | DD15F3P00S-50 |
| M24308/8-439 | RD50M1F000-50-403.0 | M24308/8-465P | DD62M0F00S | M24308/23-29F | HDC50F5B800C-50-376.6 | M24308/23-62 | DD26F3P000-50 |
| M24308/8-439F | RD50M1F00C-50-403.0 | M24308/8-466 | DD78M0F000-403.0 | M24308/23-29P | HDC50F5B800S-50-376.6 | M24308/23-62F | DD26F3P00C-50 |
| M24308/8-439P | RD50M1F00S-50 | M24308/8-466F | DD78M0F00C-403.0 | M24308/23-31 | HDC9F5B8000-50 | M24308/23-62P | DD26F3P00S-50 |
| M24308/8-440 | DD15M1F000-50-403.0 | M24308/8-466P | DD78M0F00S | M24308/23-31F | HDC9F5B800C-50 | M24308/23-63 | DD44F3P000-50 |
| M24308/8-440F | DD15M1F00C-50-403.0 | M24308/8-467 | DD104M0F000-403.0 | M24308/23-31P | HDC9F5B800S-50 | M24308/23-63F | DD44F3P00C-50 |
| M24308/8-440P | DD15M1F00S-50 | M24308/8-467F | DD104M0F00C-403.0 | M24308/23-32 | HDC15F5B8000-50 | M24308/23-63P | DD44F3P00S-50 |
| M24308/8-441 | DD26M1F000-50-403.0 | M24308/8-467P | DD104M0F00S | M24308/23-32F | HDC15F5B800C-50 | M24308/23-64 | DD62F3P000-50 |
| M24308/8-441F | DD26M1F00C-50-403.0 | M24308/23-1 | HDC9F3P000-50 | M24308/23-32P | HDC15F5B800S-50 | M24308/23-64F | DD62F3P00C-50 |
| M24308/8-441P | DD26M1F00S-50 | M24308/23-1F | HDC9F3P00C-50 | M24308/23-33 | HDC25F5B8000-50 | M24308/23-64P | DD62F3P00S-50 |
| M24308/8-442 M24308/8-442F | DD44M1F000-50-403.0 | M24308/23-1P | HDC9F3P00S-50 HDC15F3P000-50 | M24308/23-33F | HDC25F5B800C-50 HDC25F5B800S-50 | M24308/23-65 | DD78F3P000-50 |
| M24308/8-442P | DD44M1F00C-50-403.0 DD44M1F00S-50 | M24308/23-2 M24308/23-2F | HDC15F3P000-50 HDC15F3P00C-50 | M24308/23-33P M24308/23-34 | HDC25F5B8005-50 HDC37F5B8000-50 | M24308/23-65F M24308/23-65P | DD78F3P00C-50 DD78F3P00S-50 |
| M24308/8-443 | DD44M11003-50 DD62M1F000-50-403.0 | M24308/23-2P | HDC15F3P00S-50 | M24308/23-34F | HDC37F5B800C-50 | M24308/23-67 | DD15F32P000-50 |
| M24308/8-443 M24308/8-443F | DD62M1F000-50-403.0 DD62M1F00C-50-403.0 | M24308/23-2P M24308/23-3 | HDC15F3P005-50 HDC25F3P000-50 | M24308/23-34P | HDC37F5B800C-50 HDC37F5B800S-50 | M24308/23-67F | DD15F32P000-50 DD15F32P00C-50 |
| M24308/8-443P | DD62M1F00C-50-403.0 | M24308/23-3F | HDC25F3P000-50 | M24308/23-34P | HDC50F5B8000-50 | M24308/23-67P | DD15F32P00C-50 |
| M24308/8-444 | DD78M1F000-50-403.0 | M24308/23-3P | HDC25F3P00S-50 | M24308/23-35F | HDC50F5B800C-50 | M24308/23-68 | DD26F32P000-50 |
| M24308/8-444F | DD78M1F00C-50-403.0 | M24308/23-4 | HDC37F3P000-50 | M24308/23-35P | HDC50F5B800S-50 | M24308/23-68F | DD26F32P00C-50 |
| M24308/8-444P | DD78M1F00S-50 | M24308/23-4F | HDC37F3P00C-50 | M24308/23-37 | HDC9F5B8000-50-376.5 | M24308/23-68P | DD26F32P00S-50 |
| M24308/8-445 | DD104M1F000-50-403.0 | M24308/23-4P | HDC37F3P00S-50 | M24308/23-37F | HDC9F5B800C-50-376.5 | M24308/23-69 | DD44F32P000-50 |
| M24308/8-445F | DD104M1F00C-50-403.0 | M24308/23-5 | HDC50F3P000-50 | M24308/23-37P | HDC9F5B800S-50-376.5 | M24308/23-69F | DD44F32P00C-50 |
| M24308/8-445P | DD104M1F00S-50 | M24308/23-5F | HDC50F3P00C-50 | M24308/23-38 | HDC15F5B8000-50-376.5 | M24308/23-69P | DD44F32P00S-50 |
| M24308/8-446 | RD9M1F000-50-403.1 | M24308/23-5P | HDC50F3P00S-50 | M24308/23-38F | HDC15F5B800C-50-376.5 | M24308/23-70 | DD62F32P000-50 |
| M24308/8-446F | RD9M1F00C-50-403.1 | M24308/23-7 | HDC9F3P000-50-375.10 | M24308/23-38P | HDC15F5B800S-50-376.5 | M24308/23-70F | DD62F32P00C-50 |
| M24308/8-446P | RD9M1F00S-50-400.0 | M24308/23-7F | HDC9F3P00C-50-375.10 | M24308/23-39 | HDC25F5B8000-50-376.5 | M24308/23-70P | DD62F32P00S-50 |
| | | I | | I | I | | |

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.

| JULITARY PATT VUMBER POSITIONIC : PATT VUMBER PATT VUMBER PATT VUMBER PA | | Positro | onic RD Series co | ntacts are Q.P.L. approve | ed to MIL-C-39029 | per test report number 39 | 9029-694-79. |
|---|---------------|-----------------------|-------------------|---------------------------|-------------------|---------------------------|--------------|
| Mc430823-71F D07F321005-90 Mc430824-82F HD151M688005-937-61 Mc430824-82F HD151M68005-937-61 Mc430823-77F D01FF48005-93 Mc430824-82F HD151M68005-937-61 Mc430824-82F HD151M68005-937-61 Mc430823-77F D01FF48005-93 Mc430824-82F HD153M68005-937-61 Mc430823-77F Mc430823-78F Mc430823-78F Mc43082-42F HD153M68005-937-61 Mc430823-77F D02FF48005-93 Mc43082-42F HD153M68005-937-61 Mc43082-42F HD153M68005-937-61 Mc43082-44F DD183M7005-80 Mc430823-77F D02FF48005-93 Mc43082-42F HD153M68005-937-61 Mc43082-44F DD183M7005-80 Mc430823-78F D02FF48005-93 Mc43082-44F HD153M68005-937-61 Mc43082-44F DD183M7005-80 Mc430823-77F D02FF48005-90 Mc43082-44F HD153M68005-90 Mc43082-44F DD183M7005-80 Mc430823-77F D02FF48005-90 Mc42082-44F HD153M68005-90 Mc43082-44F D0183M7005-90 Mc430823-77F D02F48005-90 Mc43082-44F D0183M7005-90 Mc43082-44F D0183M8900-90 Mc43082-44F D0183M80 | | | | | | | |
| Mathabel D07FF2P005.50 Mathabel | M24308/23-71 | DD78F32P000-50 | M24308/24-26 | HDC15M5B8000-50-376.6 | M24308/24-58 | HDC37M5B8000-50-376.7 | |
| M438023-77 DD 15F48000-50 M428024-27 HD C28M488000-537-67 M428024-28 HD C28M488000-537-67 M438022-74 DD 15F48000-50 M428024-24 HD C28M488000-537-67 M428024-24 HD C28M488000-537-67 M428022-47 HD C28M488000-537-67 M428022-42 HD C28M488000-53 M428022-42 <t< td=""><td>M24308/23-71F</td><td>DD78F32P00C-50</td><td>M24308/24-26F</td><td>HDC15M5B800C-50-376.6</td><td>M24308/24-58F</td><td>HDC37M5B800C-50-376.7</td><td></td></t<> | M24308/23-71F | DD78F32P00C-50 | M24308/24-26F | HDC15M5B800C-50-376.6 | M24308/24-58F | HDC37M5B800C-50-376.7 | |
| M43002777 D10F4800050 M43024-27F H02264800050 M43024-27F H02264800050 S176 F M4302277 D20474800050 M430224-28F H02374880050 S176 F M4302277 D20474800050 M430224-28F H02374880050 S176 F M4302277 D24474800050 M430224-28F H02374880050 S176 F M4302277 D2447480050 M430224-28F H02374880050 S176 F M4302277 D2447480050 M430224-28F H02374880050 S176 F M4302277 D2447480050 M430224-28F H02374880050 S176 F M430224-28F H02374880050 S1 M430224-28F H02374880050 S176 F M430224-28F H02374880050 M430224-28F H02374880050 S176 F M430224-28F H02374880050 M430224-28F H02374880050 S1 M430224-28F H02374880050 M430224-28F H02374890050 M430224-28F H02374880050 S1 M430224-28F H02374890050 M373 M430224-28F H02374890050 M373 M430224-28F | M24308/23-71P | DD78F32P00S-50 | M24308/24-26P | HDC15M5B800S-50-376.6 | M24308/24-58P | HDC37M5B800S-50-376.7 | |
| Mc43082-77P D15F488005-59 Mc43082-47P H0C28M88005-59776 Mc43082-47P H0C28M88005-59776 Mc43082-41P D1C28M88005-59776 Mc43082-41P D1C28M88005-59776 Mc43082-41P D1C28M88005-59776 Mc43082-41P D1C38M8005-59776 Mc43082-41P D1C38M8005-59776 Mc43082-42P H0C38M88005-59776 Mc43082-42P H0C38M88005-59766 Mc43082-42P H0C38M88005-50 Mc43082-42P H0C38M88005-50 Mc43082-43P H0C38M88005-50 Mc43082-43P H0C38M88005-50 Mc43082-43P H0C38M88005-50 Mc43082-43P H0C38M88005-50 Mc43082-43P H0C38M88005-50 Mc43082-43P H0C38M88005-50 Mc43082-44P | M24308/23-73 | DD15F4B8000-50 | M24308/24-27 | HDC25M5B8000-50-376.6 | M24308/24-59 | HDC50M5B8000-50-376.7 | |
| Madage2-77 D2674-88005-0 Madage2-28 HDC37M88005-0376 Mad3024-47 DC37M89005-03 Mad3024-47 DC37M89005-03 Mad3024-47 HDC37M89005-03 Mad3024-47 HDC37M89005-03 Mad3024-47 HDC37M89005-03 Mad3024-47 HDC37M89005-03 Mad3024-47 HDC37M89005-03 Mad3024-47 HDC37M89005-03 Mad3024-42 HDC37M89005-03 Mad3024-44 HDC37M89005-03 Mad3024-45 HDC37M89 | M24308/23-73F | | | | M24308/24-59F | | |
| Mc38082-74F DD26F4800C5-0 Mc38282-28F HC37M8800C5-0776 Mc38082-41F DD15M8700C-50 MC38082-77F DD4F4800C5-0 Mc430824-28F HC37M8800C5-0776 Mc380824-41F DD3M8700C-50 MC38082-77F DD4F4800C5-0 Mc430824-28F HC37M8800C5-0776 Mc380824-42F DD3M8700C-50 MC38082-77F DD4F4800C5-0 Mc430824-28F HC37M8800C5-0 Mc380824-42F MC380824-42F MC38082-77F DD57F4800C5-0 Mc430824-42F HC37M8800C5-0 Mc430824-42F MC380824-42F MC38082-77F DD77F4800C5-0 Mc430824-42F HC13M8800C5-0 Mc430824-42F DD74M8900C5-0 MC43082-77F DD77F4800C5-0 Mc430824-42F HC13M8800C5-0 Mc430824-42F DD74M8900C5-0 MC43082-77F DD77F4800C5-0 Mc430824-42F HC13M8800C5-0 Mc430824-44F DD33M8900C5-0 MC430824-77F DD77F48000C5-0 Mc430824-45F HC13M8800C5-0 Mc430824-47F DD33M8900C5-0 MC430824-77F HC3M8800C5-0 Mc430824-47F DD13M8700C5-0 Mc430824-47F DD13M8700C5-0 Mc430824-47F | M24308/23-73P | DD15F4B800S-50 | M24308/24-27P | HDC25M5B800S-50-376.6 | M24308/24-59P | HDC50M5B800S-50-376.7 | |
| Mc34082737# DD264488005-00 Mc330824.28 HDC37M888005-05.376.6 Mc330824.29 DD234187005-60 Mc33082757 DD264488005-00 Mc330824.29 HDC37M888005-05.376.6 Mc330824.29 DD234187005-60 Mc33082757 DD264488005-00 Mc330824.29 HDC37M88005-05.376.6 Mc330824.29 DD244487005-60 Mc33082757 DD264488005-00 Mc330824.24 HDC37M88005-05.376.6 Mc330824.24 DD444187005-60 Mc330824.277 DD26448005-00 Mc330824.24 HDC37M88005-00 Mc330824.24 DD444187005-60 Mc330824.247 HDC37M88005-00 Mc330824.247 HDC37M88005-00 Mc330824.248 DD444187005-60 Mc330824.247 HDC37M88005-00 Mc330824.248 DD747M88005-00 Mc330824.247 DD547M88005-00 Mc330824.247 HDC37M87005-00 Mc330824.247 DD547M88005-00 Mc330824.247 DD747M89005-00 Mc330824.247 HDC37M87005-00 Mc330824.247 DD547M89005-00 Mc330824.247 DD51M327005-00 Mc330824.247 HDC37M87005-00 Mc330824.247 DD15M327005-00 Mc330824.247 DD15M327005-00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| Me330824-37 Me330824-37 Defar Baboos 50 Me330824-32 Defar Baboos 50 Me330824-32 Heit CitMeBaboos 50 Me330824-42 Heit CitMeBaboos 50 Me330824-44 Heit CitMeBaboos 50 Me330824-44 Heit CitMeBaboos 50 Me330 | | | | | | | |
| Me330823-7F DD4F48000-50 Me330823-7F DD4F48000-50 Me330823-7F DD4F48000-50 Me330823-7F DD2F48000-50 Me330823-7F DD2F48000-50 Me330823-7F DD2F48000-50 Me330823-7F DD2F48000-50 Me330823-7F DD7F48000-50 Me330823-7F DD7F48000-50 Me330823-7F DD7F48000-50 Me330823-7F DD7F48000-50 Me330824-7F HD51408800-50 Me330824-7F HD51408700-50 Me330824-3F HD52408700-50 Me330824-3F HD52408700-50 Me330824-4F HD52408700-50 Me3 | | | | | | | |
| Mc4388273-76 DD:6474880005-80 Mc4388274-87 DD:647480005-80 Mc438823-767 DD:767480005-80 Mc4388274-87 DD:647480005-80 Mc438823-767 DD:776480005-80 Mc4388274-87 DD:647480005-80 Mc438823-767 DD:776480005-80 Mc438824-87 DD:44187005-80 Mc438823-767 DD:776480005-80 Mc438824-87 DD:16488005-80 Mc438823-767 DD:776488000-50 Mc438824-87 DD:16488005-80 Mc438823-767 DD:776488000-50 Mc438824-47 DD:16488005-80 Mc438824-74 DD:77648000-50 Mc438824-487 DD:2647900-50 Mc438824-74 DD:77648000-50 Mc438824-487 DD:2647900-50 Mc438824-74 DD:16432900-50 Mc438824-487 DD:2647900-50 Mc438824-74 DD:16432900-50 Mc438824-487 DD:16432900-50 Mc438824-74 DD:16432900-50 Mc438824-487 DD:16432900-50 Mc438824-74 DD:16432900-50 Mc438824-487 DD:16432900-50 Mc438824-74 DD:16432900-50 Mc438824-487 DD:16432900-50 Mc438824-74 | | | | | | | |
| Mc380823-76 D062F48800-60 Mc380824-31 D06488800-60 Mc380824-83 D04488900-80 Mc380823-76P D052F488005-80 Mc380824-37 D06488800-50 Mc380824-87 D04488900-80 Mc380823-77P D07F488005-80 Mc380824-87 D05488800-50 Mc380824-87 D05488900-50 Mc380823-77P D07F488005-80 Mc380824-87 D05488900-50 Mc380824-87 D05489800-50 Mc380823-77P D07F488005-80 Mc380824-87 D057489800-50 Mc380824-87 D057489800-50 Mc380824-77 D076748900-50 Mc380824-87 D076749800-50 Mc380824-87 D07849800-50 Mc380824-87 H05748900-50 Mc380824-87 D07148900-50 Mc380824-87 D154832900-80 Mc380824-87 H05748900-50 Mc380824-87 D0154832900-80 Mc380824-87 D154832900-80 Mc380824-87 H05748900-50 Mc380824-87 D154832900-80 Mc380824-87 D154832900-80 Mc380824-87 H05748900-50 Mc380824-87 D154832900-80 Mc380824-87 D154832900-80 Mc380824-87 H057489800-5 | | | | | | | |
| Med30823-767 D02644B8005-60 Med30824-77 D0764B8000-50 Med30824-77 D0764B8000-50 Med30824-77 D0764B8000-50 Med30824-77 D0764B8000-50 Med30824-77 D0764B8000-50 Med30824-77 H050M89005-50 Med30824-87 H050M89005-50 Med30824-87 H050 | | | | | | | |
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| M43802377 DD78148800-50 M238024-27 PDC15M5800-50 M238024-44 DD8MAP00-50 M438082377 DD78148800-50 M238024-27 PDC15M5800-50 M238024-44 DD8MAP00-50 M4380824-17 PDC3M5P00-50 M238024-32 PDC15M5800-50 M238024-44 DD8MAP00-50 M4380824-17 PDC3M5P00-50 M238024-32 PDC23M8900-50 M238024-47 DD15M2P00-50 M4380824-47 PDC5M8P00-50 M238024-32 PDC23M5800-50 M238024-47 DD15M2P00-50 M4380824-47 PDC1M8P00-50 M238024-37 PDC23M5800-50 M238024-47 DD15M2P00-50 M4380824-47 PDC1M8P00-50 M238024-37 PDC23M5800-50 M238024-47 DD15M2P00-50 M4380824-47 PDC3M5800-50 M239024-37 PDC2M5800-50-75 M238024-48 DD23M2P00-50 M4380824-48 PDC2M58000-50 M239024-37 PDC2M58000-50-75 M238024-48 DD23M2P00-50 M4380824-49 PDC3M58000-50 M239024-47 PDC3M58000-50 M248024-77 DD23M2P00-50 M4380824-47 PDC3M58000-50 M238024-47 | | | | | | | |
| Mc43082377 DD7814880C-50 Mc430824-32P HOC15MK8800C-50 Mc430824-44P DD5MK9R00C-50 Mc430824-11 HOCMM8P00C-50 Mc430824-32P HOC15MK8800C-50 Mc430824-44P DD5MK9P00C-50 Mc430824-12 HOCSM8P00C-50 Mc430824-34P HOCSM8P00C-50 Mc430824-44P DD5MK9P00C-50 Mc430824-2P HOCSM8P00C-50 Mc430824-3P HOCSM8P00C-50 Mc430824-4F DD5MK9P00C-50 Mc430824-2P HOCSM8P00C-50 Mc430824-3P HOCSM8P00C-50 Mc430824-4F DD5MK9P00C-50 Mc430824-3P HOCSM8P00C-50 Mc430824-3P HOCSM8P00C-50 Mc430824-4F DD5MK9P00C-50 Mc430824-4F HOCSM8P00C-50 Mc430824-3F HOCSM8P00C-50 Mc430824-4F DD4MK8P00C-50 Mc430824-4F HOCSM8P00C-50 Mc430824-3F HOCM8P00C-50 Mc430824-4F DD4MK8P00C-50 Mc430824-4F HOCSM8P00C-50 Mc430824-3F HOCM8P00C-50 Mc430824-4F DD4MK8P00C-50 Mc430824-4F HOCSM8P00C-50 Mc430824-3F DD4MK8P00C-50 Mc430824-4F DD5MK8P00C-50 Mc430824-4F < | | | | | | | |
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| M4230824-1F HDCSMRP00C-60 M4240824-3F HDC2SMB800C-50 M4240824-4F DD78MSP00C-50 M430824-2 HDC1MMSP00S-60 M4240824-34 HDC37MB800C-60 M4240824-4F DD1M32P00S-50 M430824-2 HDC1MMSP00S-60 M4240824-34 HDC37MB800C-60 M4240824-4FF DD1M32P00S-50 M430824-3F HDC2MMSP00S-60 M4240824-3F DD26MSP00C-60 M4240824-4FF DD28MSP00C-50 M430824-3F HDC2MMSP00S-60 M4240824-3F HDC50MS8800C-50 M4240824-4FF DD28M32P00S-50 M430824-4F HDC37MSP00S-60 M4240824-3FF HDC50MS8800C-50,776.5 M4240824-4FF DD28M32P00S-50 M430824-4F HDC37MSP00S-60 M4240824-3FF HDC50MS8800C-50,776.5 M4240824-7FF DD28M32P00S-50 M430824-4F HDC3MSP00S-50 M4240824-3FF HDC15MS8000-50-376.5 M4240824-7FF DD28M32P00S-50 M430824-7FF HDC3MSP00S-50,376.5 M4240824-3FF HDC15MS8000-50-376.5 M4240824-7FF DD28M32P00S-50 M430824-7FF HDC3MSP00S-50,376.5 M4240824-4FF DD27M32P00S-50 M4240824-4FF DD27M34P00C-50 | | DD78F4B800S-50 | | HDC15M5B800S-50 | | DD62M3P00S-50 | |
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| M4230824-2 HDC15M3P00-50 M4230824-34 HDC37M58000-50 M4230824-677 DD15M32P00-50 M4230824-37 HDC15M3P00-50 M4230824-34 HDC37M58000-50 M4230824-478 DD15M32P00-50 M4230824-37 HDC25M5900-60 M4230824-38 DD15M32P00-50 M4230824-48 DD15M32P00-50 M4230824-37 HDC25M5900-60 M4230824-375 HDC35M5900-50 M4230824-48 DD15M32P00-50 M4230824-47 HDC37M5900-50 M4230824-375 HDC35M5900-50-77.5 M4230824-48 DD44M32P00-50 M4230824-47 HDC37M5900-50 M4230824-375 HDC3M5900-50-77.5 M4230824-497 DD44M32P00-50 M4230824-47 HDC3M5900-50 M4230824-38 HDC15M5900-537.5 M4230824-707 DD44M32P00-50 M4230824-47 HDC3M5900-50-37.5 M4230824-747 DD6M32P00-50 DD44M32P00-50 M4230824-74 HDC3M5900-50-37.5 M4230824-747 DD6M32P00-50 DD44M32P00-50 M4230824-74 HDC3M5900-50-37.5 M4230824-747 DD6M32P00-50 DD44M32P00-50 M4230824-74 HDC3M5900-50-37.5 M4230824-747 | | | | HDC25M5B800C-50 | | | |
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| Mc4308/24-3 HDC2SMMP000-50 Mc4308/24-85 HDC2SMMS8000-50 Mc4308/24-86 DD28M32P00C-50 Mc4308/24-87 HDC2SMMS900C-50 Mc4308/24-87 HDC3MMS800C-50 Mc4308/24-86 DD28M32P00C-50 Mc4308/24-48 HDC3MMS900C-50 Mc4308/24-48 DD24M32P00C-50 Mc4308/24-48 DD44M32P00C-50 Mc4308/24-47 HDC3MMS900C-50 Mc4308/24-48 DD44M32P00C-50 Mc4308/24-77 DD44M32P00C-50 Mc4308/24-47 HDC3MMS900C-50 Mc4308/24-77 DD54M32P00C-50 Mc4308/24-77 DD54M32P00C-50 Mc4308/24-77 HDC3MMS900C-50-750 Mc4308/24-78 HDC15MMS900C-50-376.5 Mc4308/24-77 DD54M32P00C-50 Mc4308/24-77 HDC3MMS900C-50-75.1 Mc4308/24-78 HDC25MMS900C-50-376.5 Mc4308/24-77 DD75M32P00C-50 Mc4308/24-77 HDC3MMS900C-50-376.1 Mc4308/24-478 HDC25MMS900C-50-376.5 Mc4308/24-78 DD75M32P00C-50 Mc4308/24-74 HDC3MMS900C-50-376.1 Mc4308/24-478 DD75M32P00C-50 Mc4308/24-77 DD75M32P00C-50 Mc4308/24-74 HDC3MMS900C-50-376.1 Mc4308/24-478 DD75M48800C-50 Mc | | | | | | | |
| Mc430824-3F H0C25MSP0C-50 Mc430824-48F H0C5MSB800-50 Mc430824-48F D26MS2P005-50 Mc430824-44 H0C37MSP0005-50 Mc430824-48F H0C5MSB800-50-87.55 Mc430824-48F D24MS2P005-50 Mc430824-47 H0C37MSP0005-50 Mc430824-48F H0C3MSB800-50-87.55 Mc430824-47F D02MS2P005-50 Mc430824-47F H0C3MSB800-50-37.55 Mc430824-47F D02MS2P005-60 Mc430824-47F D02MS2P005-60 Mc430824-47F H0C3MSB800-50-37.55 Mc430824-7F D02MS2P005-60 Mc430824-7F D02SMS2P005-60 Mc430824-47F H0C3MSB800-50-37.56 Mc430824-7F D02SMS2P005-60 Mc430824-7F D02SMS2P005-60 Mc430824-7F H0C3MSB900-50-37.51 Mc430824-37F H0C2SMSB900-50-37.56 Mc430824-7F D07SM32P005-60 Mc430824-47F H0C3MSB900-50-37.51 Mc430824-47F H0C3MSB900-50-37.56 Mc430824-7F D07SM32P005-60 Mc430824-47F H0C3MSB900-50-37.51 Mc430824-47F H0C3MSB900-50-37.56 Mc430824-7F D07SMA8900-50 Mc430824-47F H0C3MSB900-50-37.51 Mc430824-47F H0C3MSB900-50-37.51 Mc4308 | | | | | | | |
| Mc430824-3P H0C2SMSP005-60 Mc430824-43P H0CSMSB8005-80 Mc430824-44 H0CSMSB8005-80 Mc430824-47 Mc430824-44 H0CSMSB8005-80-376.5 Mc430824-47 H0CSMSB8005-80-376.5 Mc430824-69 D044432P005-80 Mc430824-45 H0CSMSB8005-80-376.5 Mc430824-69 D044432P005-80 Mc430824-69 D044432P005-80 Mc430824-47 H0CSMSB8005-80-376.5 Mc430824-79 D05MS2P005-60 Mc430824-79 D05MS2P005-60 Mc430824-79 H0CSMSB9005-60-376.5 Mc430824-79 D07M32P005-60 Mc430824-79 D07M32P005-60 Mc430824-79 H0CSMSB9005-60-376.5 Mc430824-71 D07M32P005-60 Mc430824-79 D07M32P005-60 Mc430824-47 H0CSMSB9005-60-376.5 Mc430824-74 H0CSMSB9005-60-376.5 Mc430824-74 D07M32P005-60 Mc430824-48 H0C1MSB9005-60-376.10 Mc430824-44 H0CSMSB9005-60-376.5 Mc430824-74 D07M32P005-60 Mc430824-49 H0CSMSB9005-60-376.5 Mc430824-74 D02MMB8005-60 Mc430824-74 D02MMB8005-60 Mc430824-74 D02MMB8005-60 Mc430824-74 D02MMB8005-60 Mc430824-74 | | | | | | | |
| M24308/24-4 HDC37M3P00-50 M24308/24-37 HDC3M4800-50-376.5 M24308/24-69 DD44M32P00-50 M24308/24-47 HDC37M3P005-80 M24308/24-37 HDC3M4800-50-376.5 M24308/24-69 DD44M32P00-50 M24308/24-47 HDCSM49P00-80 M24308/24-38 HDC15M48B00-50-376.5 M24308/24-70 DD26M32P00-50 M24308/24-47 HDCSM49P00-80 M24308/24-38 HDC15M48B00-50-376.5 M24308/24-70 DD26M32P00-50 M24308/24-47 HDCSM49P00-80-375.10 M24308/24-38 HDC15M48B00-50-376.5 M24308/24-77 DD78M32P005-60 M24308/24-48 HDC15M39P00-50-375.10 M24308/24-49 HDC37M58B00-50-376.5 M24308/24-77 DD78M32P005-60 M24308/24-49 HDC15M39P00-50-375.10 M24308/24-41 HDC37M58B00-50-376.5 M24308/24-77 DD78M48000-50 M24308/24-49 HDC15M39P00-50-375.10 M24308/24-17 HDC37M58000-50-376.5 M24308/24-77 DD78M48000-50 M24308/24-17 HDC37M39P00-50-375.10 M24308/24-17 HDC37M58000-50-376.5 M24308/24-77 DD78M48000-50 M24308/24-17 HDC37M39P00-50-375.10 M24308/24-74 DD28M4 | | | | | | | |
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| M42408/24-4P HDCS/M3P005-60 M24308/24-3F HDCS/M3P005-60 M42408/24-7F HDCS/M3P005-60 M24308/24-3F HDCS/M3P005-60 M42408/24-7F HDCS/M3P005-50 M24308/24-3F HDCS/M3P005-50 M42408/24-7F HDCS/M3P005-50 M24308/24-3F HDCS/M3P005-50-76.5 M42408/24-7F HDCS/M3P005-50-77.5 M24308/24-3F HDCS/M3P005-50-76.5 M42408/24-7F HDCS/M3P005-50-77.5 M24308/24-3F HDCS/M3P005-50-76.5 M42408/24-7F HDCS/M3P005-50-77.5 M24308/24-77 DDFMM3P000-50 M42408/24-8F HDCS/M3P005-50-77.5 M24308/24-77 DDFMM3P000-50 M42408/24-8F HDCS/M3P005-50-77.5 M24308/24-78 DDFMM3P000-50 M24308/24-9F HDCS/M3P005-50-77.5 M24308/24-78 DDFMM4P00-50 M24308/24-1F HDCS/M3P000-50-77.5 M24308/24-78 DDFMM4P00-50 M24308/24-1F HDCS/M3P000-50-77.5 M24308/24-78 DDFM4P8000-50 M24308/24-1F HDCS/M3P000-50-77.5 M24308/24-78 DDFM4P8000-50 M24308/24-1F HDCS/M3P000-50-77.5 M24308/24-77 DDFM4P8000-50 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| M24308/24-5F HDC50M3P0C-50 M24308/24-3F HDC15M58000-6-0376.5 M24308/24-77F DD62M32P0C-50 M24308/24-7F HDC50M3P000-50-375.10 M24308/24-39 HDC15M58000-50-376.5 M24308/24-71 DD73M32P000-50 M24308/24-7F HDC5M3P000-50-375.10 M24308/24-39 HDC25M58000-50-376.5 M24308/24-71 DD73M32P000-50 M24308/24-7F HDC5M3P000-50-375.10 M24308/24-9F HDC25M58000-50-376.5 M24308/24-71 DD73M32P000-50 M24308/24-4F HDC15M58P00-50-375.10 M24308/24-47 HDC25M58000-50-376.5 M24308/24-73F DD15M488000-50 M24308/24-4F HDC15M58P00-50-375.10 M24308/24-47 HDC25M58000-50-376.5 M24308/24-74F DD26M48900-50 M24308/24-10 HDC37M5P00-50-375.10 M24308/24-47 HDC36M58000-50-376.3 M24308/24-76F DD26M48900-50 M24308/24-11 HDC37M5P00-50-375.10 M24308/24-47F HDC36M58000-50-376.3 M24308/24-77F DD26M48900-50 M24308/24-11 HDC37M5P00-50-375.10 M24308/24-47F HDC37M58000-50-376.3 M24308/24-77F DD26M48900-50 M24308/24-11F HDC37M5P00-50-375.3 M24 | | | | HDC9M5B800S-50-376.5 | M24308/24-69P | | |
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| M24308/24-7 H0CSM/3P000-50-375.10 M24308/24-39 H0CZSM/8B000-50-375.10 M24308/24-378 DD7/3M32P000-50 M24308/24-7P H0CSM/3P000-50-375.10 M24308/24-39P H0CZSM/8B000-50-376.50 M24308/24-378 DD7/3M32P000-50 M24308/24-8F H0C15M/3P000-50-375.10 M24308/24-0P H0C3M/8B000-50-376.50 M24308/24-378 DD15MM88000-50 M24308/24-9F H0CZSM/8P000-50-375.10 M24308/24-0P H0C3M/8B000-50-376.50 M24308/24-74 DD15MM88000-50 M24308/24-9F H0CZSM/8P000-50-375.10 M24308/24-1P H0CSM/8B000-50-376.50 M24308/24-74 DD26MM88000-50 M24308/24-1P H0CZSM/8P000-50-375.10 M24308/24-1P H0CSM/8B000-50-376.3 M24308/24-74 DD26MM88000-50 M24308/24-1P H0CSM/8B000-50-376.3 M24308/24-74 DD26MM88000-50 M24308/24-77 DD24MM8800-50 M24308/24-1P H0CSM/8B000-50-376.3 M24308/24-74 DD26MM88000-50 M24308/24-76 DD26MM8800-50 M24308/24-1P H0CSM/8B000-50-376.3 M24308/24-76 DD26MM8800-50 M24308/24-76 DD66M48800-50 M24308/24-1P H0CSM/8B000-50-376.3 M2 | | | | | | | |
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| M24308/24-17F HDC50M3P00C-50-375.3 M24308/24-50F HDC15M5B800C-50-376.8 M39029/57-354 FC8022D-50 M24308/24-17P HDC50M3P00S-50-375.3 M24308/24-50F HDC15M5B800S-50-376.8 M39029/58-360 MC8022D-50 M24308/24-19F HDC9M3P00C-50-375.9 M24308/24-51F HDC25M5B800C-50-376.8 M39029/63-368 FC6020D-50 M24308/24-19F HDC15M3P00C-50-375.9 M24308/24-51F HDC25M5B800S-50-376.8 M39029/64-369 MC6020D-50 M24308/24-20F HDC15M3P00C-50-375.9 M24308/24-52F HDC37M5B800D-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-20F HDC15M3P00C-50-375.9 M24308/24-52F HDC37M5B800D-50-376.8 M85049/48-1-4F RD37000H00 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-52F HDC50M5B800D-50-376.8 M85049/48-1-4F RD50000H00 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-52F HDC50M5B800D-50-376.7 M85049/48-1-4F RD50000H00 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC50M5B800D-50-376.7 M85049/48-1-4F RD50000H00 M24308/24-22F HDC37M3P00C-50-375.9 < | | HDC37M3P00S-50-375.3 | | | | | |
| M24308/24-17P HDC50M3P00S-50-375.3 M24308/24-50P HDC15M5B800S-50-376.8 M39029/63-368 FC602D-50 M24308/24-19P HDC9M3P00C-50-375.9 M24308/24-51F HDC2SM5B800C-50-376.8 M39029/63-368 FC602D-50 M24308/24-19P HDC9M3P00C-50-375.9 M24308/24-51F HDC2SM5B800C-50-376.8 M39029/64-369 MC602D-50 M24308/24-20P HDC15M3P00C-50-375.9 M24308/24-52P HDC37M5B800C-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-20F HDC15M3P00C-50-375.9 M24308/24-52P HDC37M5B800C-50-376.8 M85049/48-1-4F RD25000H00 M24308/24-20F HDC25M3P00C-50-375.9 M24308/24-52P HDC37M5B800C-50-376.8 M85049/48-1-4F RD5000H00 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-52P HDC50M5B800C-50-376.8 M85049/48-1-5F RD50000H00 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-53P HDC50M5B800C-50-376.7 M24308/24-52F HDC9M5B800C-50-376.7 M24308/24-52F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800-50-376.7 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F | | | | | | | |
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| M24308/24-19F HDC9M3P00C-50-375.9 M24308/24-51F HDC25M5B800C-50-376.8 M39029/64-369 MC6020D-50 M24308/24-19P HDC9M3P00S-50-375.9 M24308/24-51F HDC25M5B800C-50-376.8 METAL HOODS M24308/24-20P HDC15M3P00C-50-375.9 M24308/24-52F HDC37M5B800C-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-20P HDC15M3P00C-50-375.9 M24308/24-52F HDC37M5B800S-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-21P HDC25M3P00C-50-375.9 M24308/24-52F HDC50M5B800C-50-376.8 M85049/48-1-4F RD37000H00 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-53F HDC50M5B800C-50-376.8 M85049/48-1-4F RD50000H00 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-53F HDC50M5B800C-50-376.7 M24308/24-52F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P005-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-56F HDC9M5B800C-50-376.7 M24308/24-22F HDC30M3P005-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-22F HDC50M3P005-50-375.9 | | | | | | | |
| M24308/24-19P HDC9M3P00S-50-375.9 M24308/24-51P HDC25M5B800S-50-376.8 METAL HOODS M24308/24-20 HDC15M3P00C-50-375.9 M24308/24-52F HDC37M5B8000-50-376.8 M85049/48-1.3F RD25000H00 M24308/24-20F HDC15M3P00C-50-375.9 M24308/24-52F HDC37M5B800C-50-376.8 M85049/48-1.4F RD37000H00 M24308/24-20F HDC25M3P00C-50-375.9 M24308/24-52F HDC37M5B800S-50-376.8 M85049/48-1.4F RD37000H00 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-53F HDC50M5B800C-50-376.8 M85049/48-1.4F RD50000H00 M24308/24-21F HDC25M3P00S-50-375.9 M24308/24-53F HDC50M5B800C-50-376.7 M24308/24-22F HDC37M3P00S-50-375.9 M24308/24-55F HDC9M5B800-50-376.7 M24308/24-22F HDC37M3P00S-50-375.9 M24308/24-55F HDC9M5B800-50-376.7 M24308/24-22F HDC37M3P00S-50-375.9 M24308/24-56F HDC15M5B800-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800-50-376.7 M | | | | | | | |
| M24308/24-20 HDC15M3P000-50-375.9 M24308/24-52 HDC37M5B8000-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-20F HDC15M3P000-50-375.9 M24308/24-52F HDC37M5B800C-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-20F HDC25M3P000-50-375.9 M24308/24-52F HDC37M5B800C-50-376.8 M85049/48-1-3F RD25000H00 M24308/24-21F HDC25M3P000-50-375.9 M24308/24-53 HDC50M5B800C-50-376.8 M85049/48-1-5F RD50000H00 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-53F HDC50M5B800C-50-376.7 M24308/24-52F HDC30M5B800C-50-376.7 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50 | | | | | | INIC0020D-20 | |
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| M24308/24-21 HDC25M3P000-50-375.9 M24308/24-53 HDC50M5B8000-50-376.8 M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-53F HDC50M5B800C-50-376.8 M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| M24308/24-21F HDC25M3P00C-50-375.9 M24308/24-53F HDC50M5B800C-50-376.8 M24308/24-21P HDC25M3P005-50-375.9 M24308/24-53P HDC50M5B8005-50-376.8 M24308/24-22 HDC37M3P000-50-375.9 M24308/24-55F HDC9M5B8000-50-376.7 M24308/24-22F HDC37M3P005-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P005-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-23 HDC50M3P005-50-375.9 M24308/24-55F HDC9M5B8000-50-376.7 M24308/24-23F HDC50M3P005-50-375.9 M24308/24-56F HDC15M5B8000-50-376.7 M24308/24-23F HDC50M3P005-50-375.9 M24308/24-56F HDC15M5B8000-50-376.7 M24308/24-23F HDC50M3P005-50-376.9 M24308/24-56F HDC15M5B8000-50-376.7 M24308/24-23F HDC50M3P005-50-376.6 M24308/24-56F HDC15M5B8000-50-376.7 M24308/24-25F HDC9M5B8000-50-376.6 M24308/24-57F HDC25M5B8000-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
| M24308/24-21P HDC25M3P00S-50-375.9 M24308/24-53P HDC50M5B800S-50-376.8 M24308/24-22 HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P00S-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22F HDC37M3P00S-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-23F HDC50M3P005-50-375.9 M24308/24-55F HDC9M5B800S-50-376.7 M24308/24-23F HDC50M3P005-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P005-50-375.9 M24308/24-56F HDC15M5B800S-50-376.7 M24308/24-23F HDC50M3P005-50-375.9 M24308/24-56F HDC15M5B8005-50-376.7 M24308/24-23F HDC50M3P005-50-376.6 M24308/24-56F HDC15M5B8005-50-376.7 M24308/24-25F HDC9M5B8000-50-376.6 M24308/24-56F HDC25M5B8000-50-376.7 M24308/24-25F HDC9M5B8000-50-376.6 M24308/24-57F HDC25M5B8000-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
| M24308/24-22F HDC37M3P00C-50-375.9 M24308/24-55F HDC9M5B800C-50-376.7 M24308/24-22P HDC37M3P00S-50-375.9 M24308/24-55F HDC9M5B800S-50-376.7 M24308/24-23F HDC50M3P00-50-375.9 M24308/24-56F HDC15M5B800-50-376.7 M24308/24-23F HDC50M3P00-50-376.6 M24308/24-56F HDC15M5B800-50-376.7 M24308/24-25F HDC9M5B8000-50-376.6 M24308/24-57F HDC25M5B800-50-376.7 M24308/24-25F HDC9M5B8000-50-376.6 M24308/24-57F HDC25M5B800-50-376.7 | | | M24308/24-53P | | | | |
| M24308/24-22P HDC37M3P00S-50-375.9 M24308/24-55P HDC9M5B800S-50-376.7 M24308/24-23 HDC50M3P00C-50-375.9 M24308/24-56 HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-25F HDC50M3P00C-50-376.6 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
| M24308/24-23 HDC50M3P000-50-375.9 M24308/24-56 HDC15M5B8000-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-25F HDC50M3P00C-50-376.6 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
| M24308/24-23F HDC50M3P00C-50-375.9 M24308/24-56F HDC15M5B800C-50-376.7 M24308/24-23P HDC50M3P00S-50-375.9 M24308/24-56F HDC15M5B800S-50-376.7 M24308/24-25F HDC9M5B800-50-376.6 M24308/24-57F HDC25M5B800-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
| M24308/24-23P HDC50M3P00S-50-375.9 M24308/24-56P HDC15M5B800S-50-376.7 M24308/24-25 HDC9M5B8000-50-376.6 M24308/24-57 HDC25M5B8000-50-376.7 M24308/24-25F HDC9M5B8000-50-376.6 M24308/24-57F HDC25M5B8000-50-376.7 | | | | | | | |
| M24308/24-25 HDC9M5B8000-50-376.6 M24308/24-57 HDC25M5B8000-50-376.7 M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
| M24308/24-25F HDC9M5B800C-50-376.6 M24308/24-57F HDC25M5B800C-50-376.7 | | | | | | | |
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