



# 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.

#### CATALOG NUMBER: C-001 REV .A

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

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

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

## **TABLE OF CONTENTS**

#### MATED CONNECTOR ASSEMBLIES...... 1-2

Exploded views of typical mated Subminiature-D connector assemblies.

#### 

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

#### SOLI-D CONNECTORS......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.

#### 

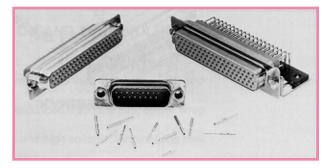
PCD Series. Machined contact, compliant termination, repairable, 7.5 ampere nominal rating. Five connector variants, 9 through 50 contacts. Professional quality connectors, conform to IEC 807-2, Performance Level Two.

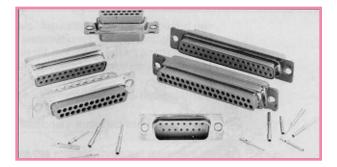
#### HIGH DENSITY PRESS-FIT CONNECTORS...... 58-62

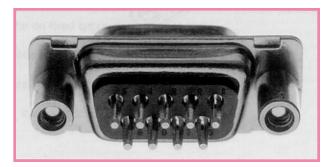
PCDD Series. Machined contact, compliant termination, repairable, 5 ampere nominal rating. Five connector variants, 15 through 104 contacts. Professional quality connectors.

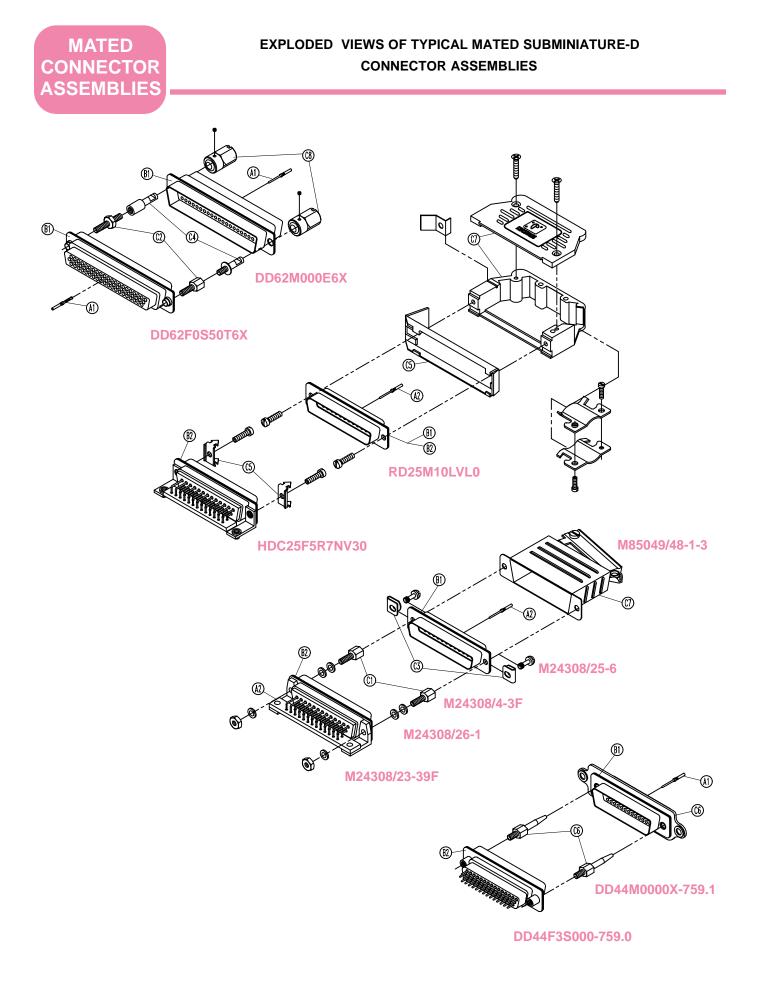




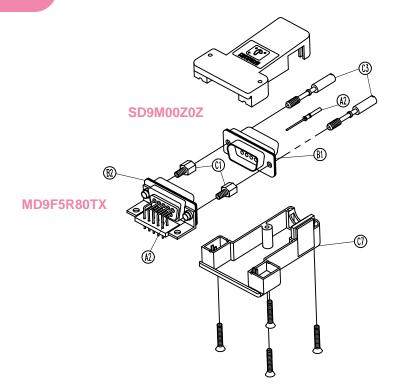












#### CONNECTOR COMPONENT DESCRIPTION AND TERMINOLOGY

- 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

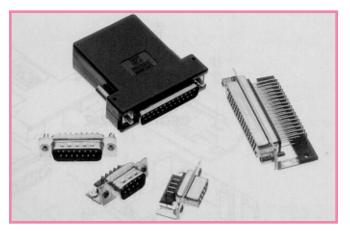
**CSA** Recognized File #LR54219

**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

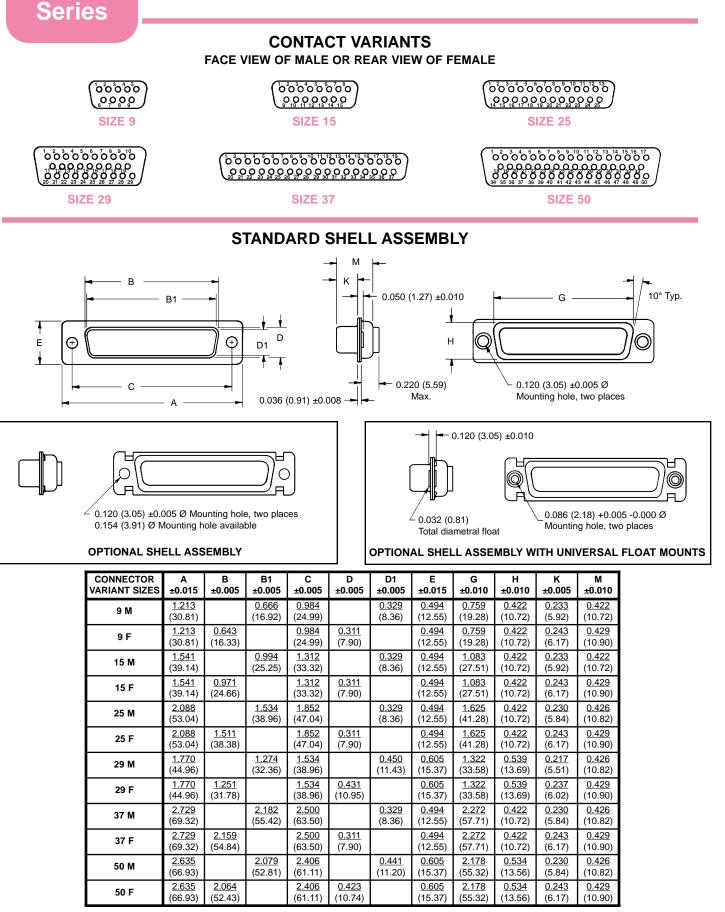
	(1.02mm) diameter. Female contact - rugged open entry design.
Contact Retention In Insulator:	6 lbs. (27N)
Resistance To Solder Iron Heat: Melo-D	500°F (260°C) for 10 seconds duration per IEC 512-6.
Contact Terminations:	Solder cup contacts – 0.042 inch (1.06mm) minimum hole diameter for 20 AWG (0.5mm <sup>2</sup> ) 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 <sup>2</sup> ) 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 <sup>*</sup> 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

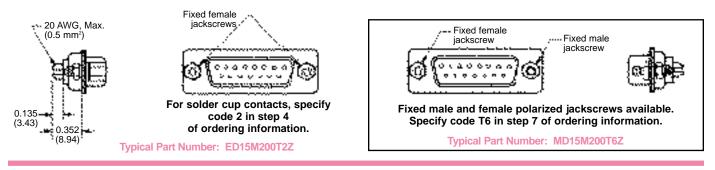


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

MD/ED

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

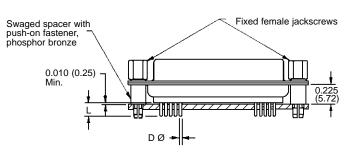
## SOLDER CUP CONNECTOR



## 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.

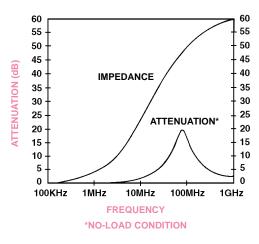


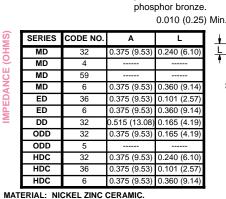
push-on fastener

Typical Part Number: MD25F3S60T0

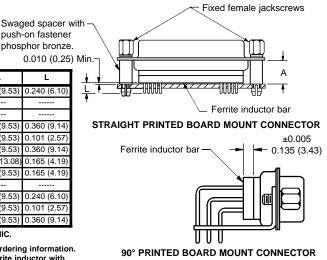
## FERRITE INDUCTOR BAR FOR EMI/RFI NOISE SUPPRESSION

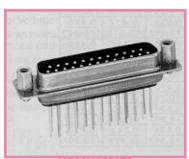
#### **FILTERING CHARACTERISTICS**





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

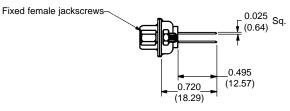




MD25M6S50T0



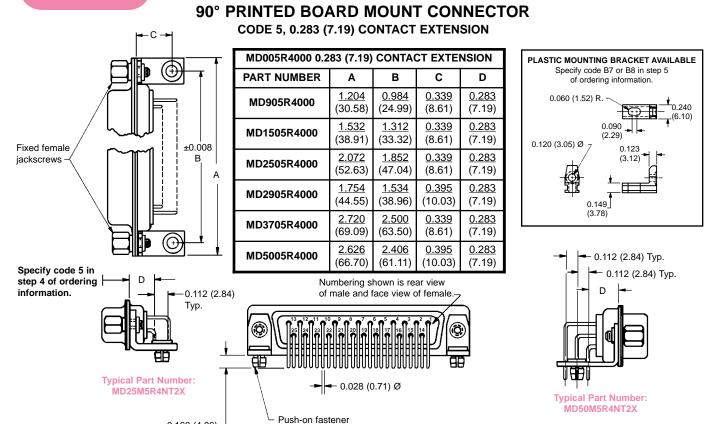
For wrap post contacts, specify code 6 in step 4 of ordering information.



Typical Part Number: MD15F600T20

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

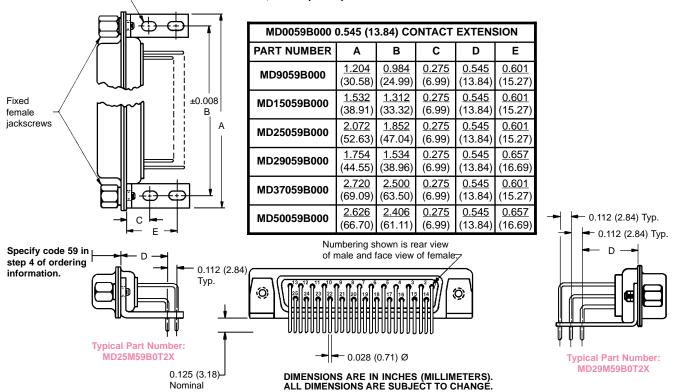
0.125 (3.18) X 0.233 (5.92) Oval hole typ.

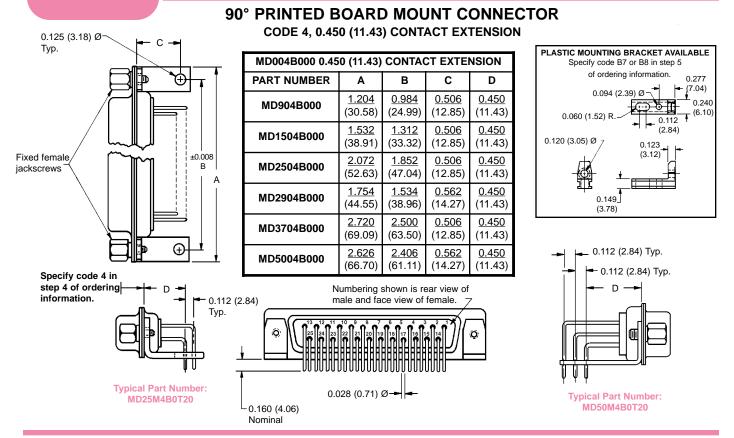


0.160 (4.06) Nominal

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

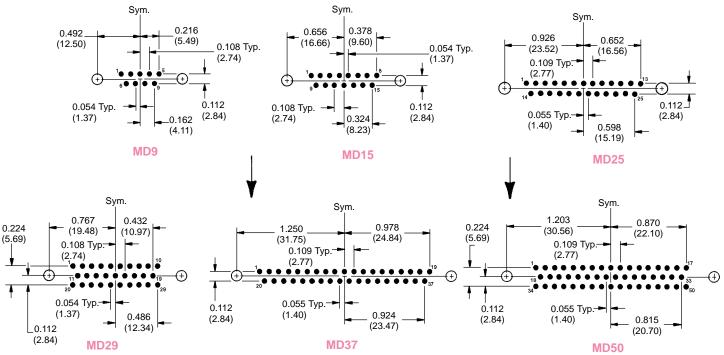
beryllium copper





## 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.

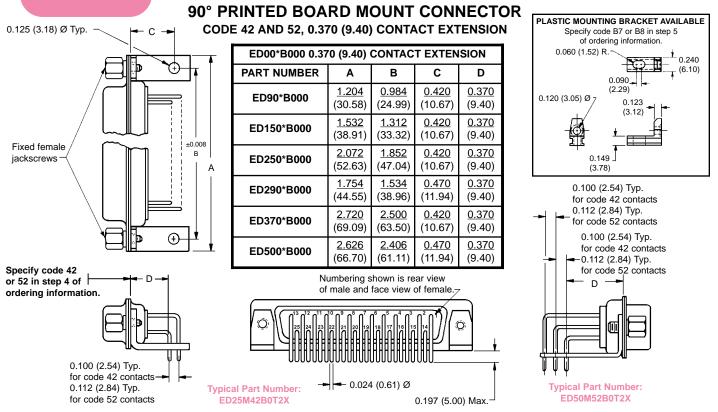


Suggest 0.045 (1.14) Ø hole for contact termination positions.

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

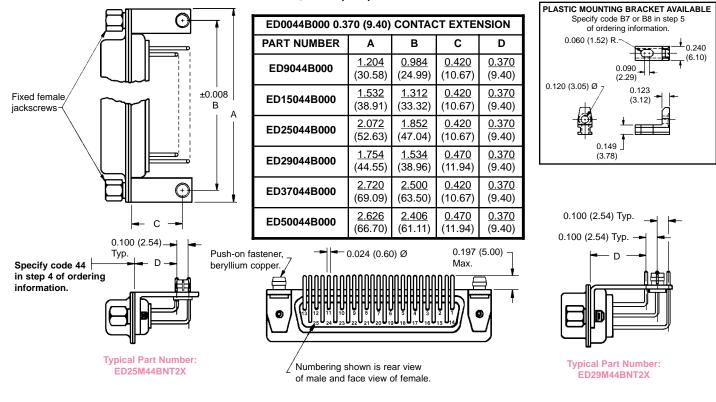
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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



90° PRINTED BOARD MOUNT CONNECTOR





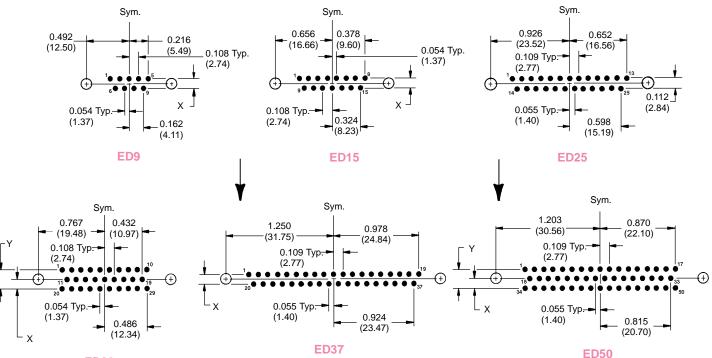
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

#### 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 <sup>2</sup> ) through 32 AWG (0.03mm <sup>2</sup> ). 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.

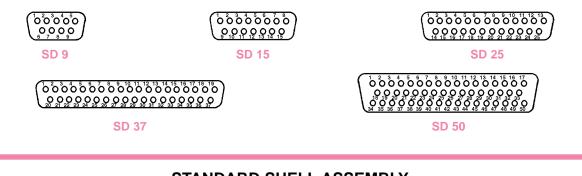
#### **CLIMATIC CHARACTERISTICS:**

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

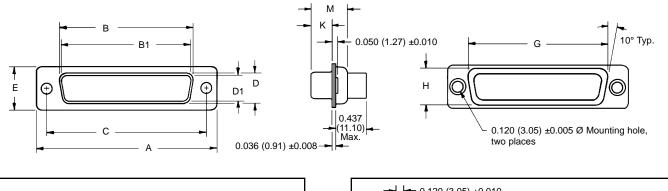
-55°C to +125°C. 10 days

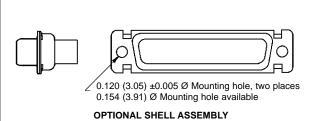


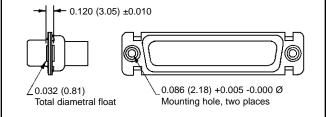
#### CONTACT VARIANTS FACE VIEW OF MALE OR REAR VIEW OF FEMALE



## 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)

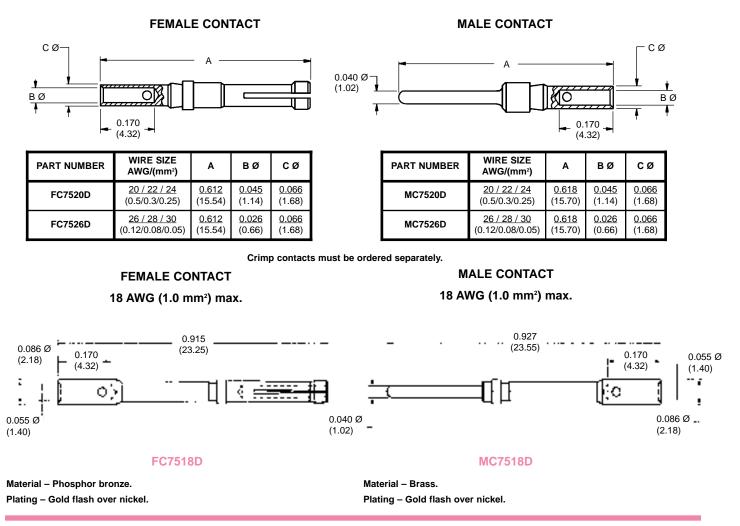
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.



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

## **CRIMP CONTACTS**

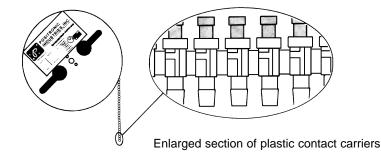
#### **CLOSED CRIMP BARREL**



## 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.

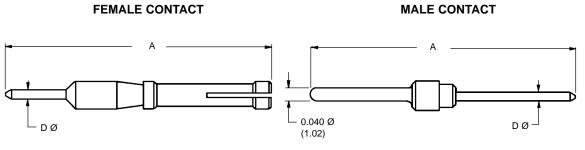
All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC7526DR for a male contact and FC7520DR for a female contact.



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



## STRAIGHT PRINTED BOARD MOUNT CONTACTS

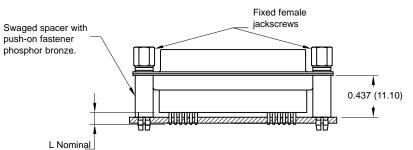


Straight printed board mount contacts are supplied in connector.

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)

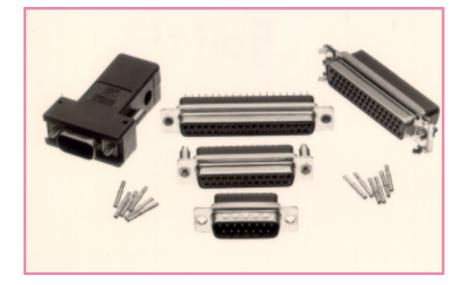
CODE NUMBER	L	DØ	A
3	<u>0.125</u>	<u>0.024</u>	<u>0.768</u>
	(3.18)	(0.61)	(19.51)
32	<u>0.188</u>	<u>0.024</u>	<u>0.831</u>
	(4.78)	(0.61)	(21.11)

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



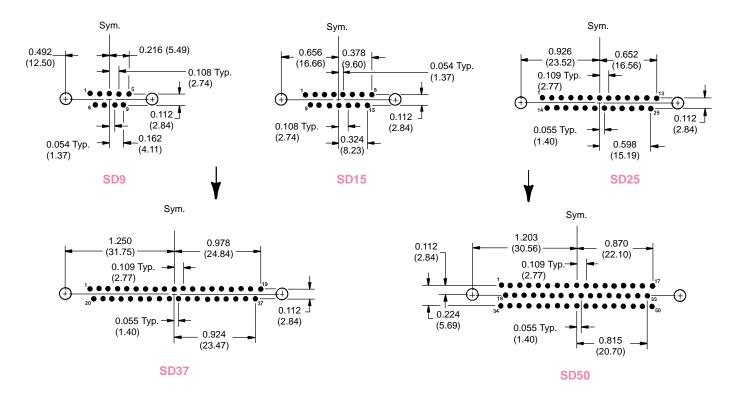
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE. Typical Part Number: SD37F3S60T2X

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



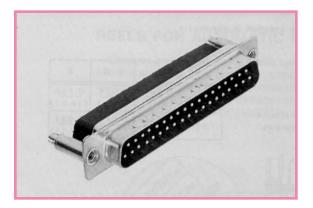
## STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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.





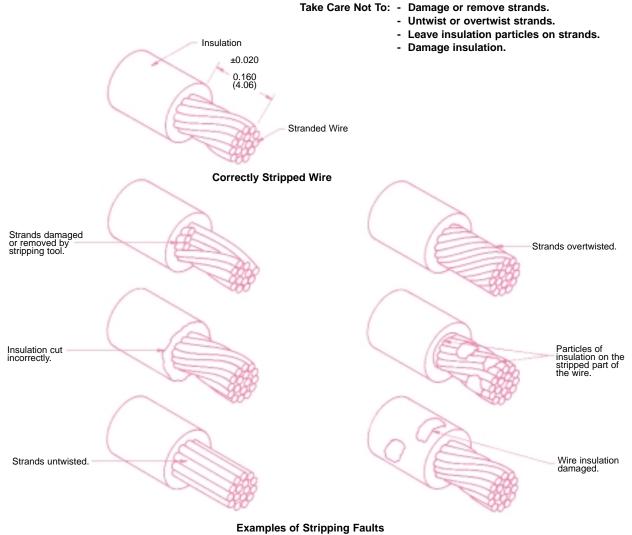


SD25F3S600X

## **CRIMPING INFORMATION FOR RD AND SD SERIES CRIMP CONTACTS**

#### USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

#### Step 1: Strip wire to indicated length.

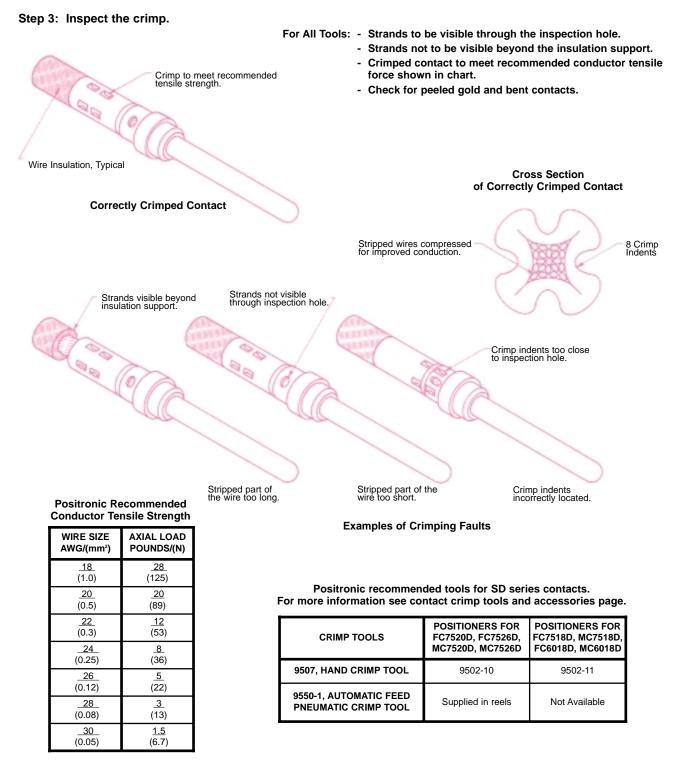


Step 2:	Crimp wire to contact.	

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**

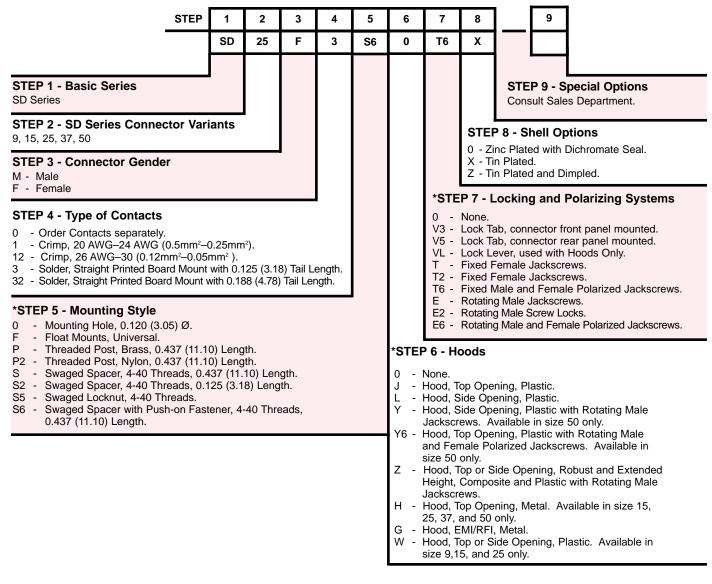


Conductor tensile strength values are derived using silver-tin plated copper wires.

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

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

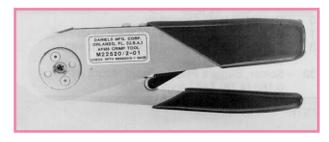


### MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

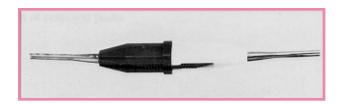
This miniature 8 step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG ( $1.0mm^2$ ) through 32 AWG ( $0.03mm^2$ ).

To crimp wire size 18 AWG (1.0mm<sup>2</sup>), order contact positioner 9502-11. To crimp wire size 20 AWG (0.5mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>), 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

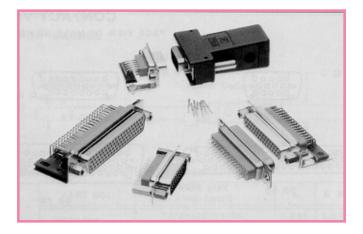
U.L. Recognized File #E49351

**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.

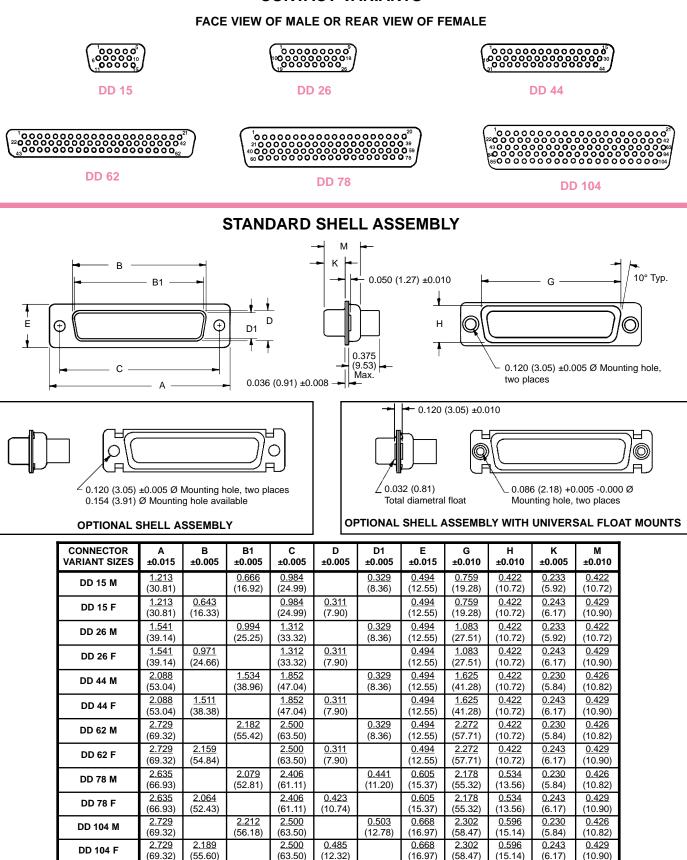
-55°C to +125°C.

#### **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 <sup>2</sup> ) through 30 AWG (0.05mm <sup>2</sup> ) 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

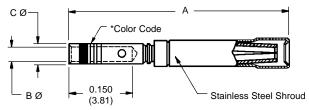


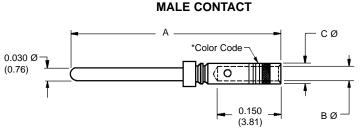
#### MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

## **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

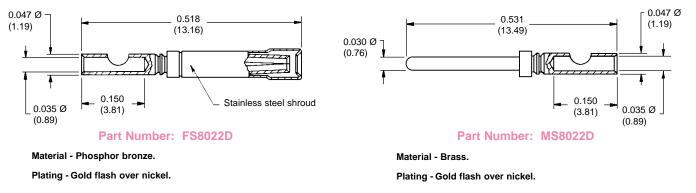
specification contacts.

For contact crimp tool information see page 29.

## SOLDER CUP CONTACTS

#### FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

#### MALE CONTACT

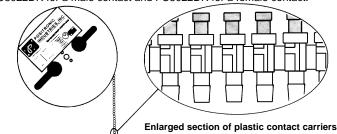


Solder contacts may be supplied kitted with connector or ordered separately.

## **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.

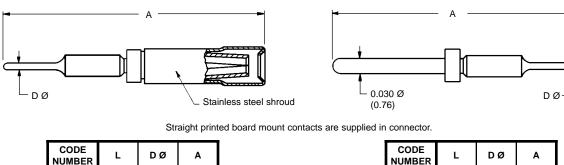


Fixed female jackscrews

## STRAIGHT PRINTED BOARD MOUNT CONTACTS

### FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

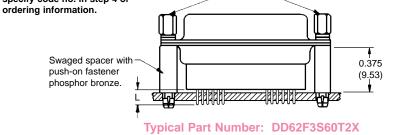
#### MALE CONTACT



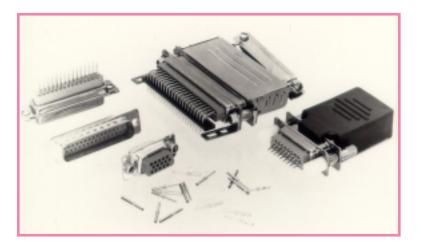
NUMBER	L	שט	А
3	<u>0.150</u>	<u>0.020</u>	<u>0.725</u>
	(3.81)	(0.51)	(18.42)
32	<u>0.300</u>	<u>0.020</u>	<u>0.865</u>
	(7.62)	(0.51)	(21.97)

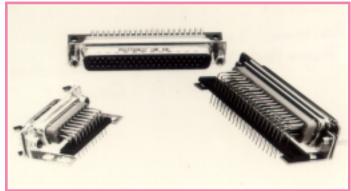
CODE NUMBER	L	DØ	Α
3	<u>0.150</u>	<u>0.020</u>	<u>0.737</u>
	(3.81)	(0.51)	(18.72)
32	<u>0.300</u>	<u>0.020</u>	<u>0.877</u>
	(7.62)	(0.51)	(22.28)

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



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



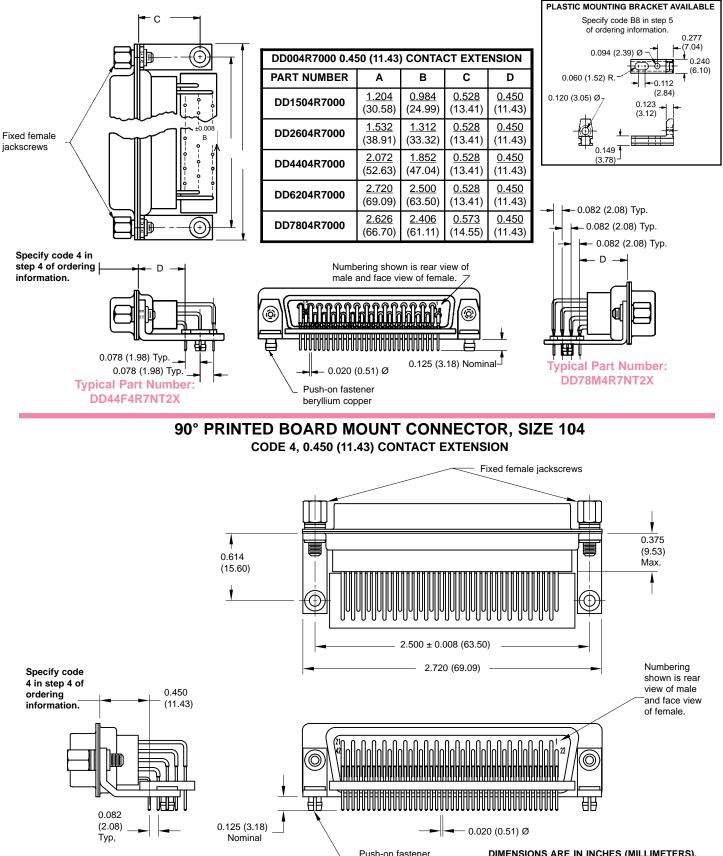




#### MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.450 (11.43) CONTACT EXTENSION

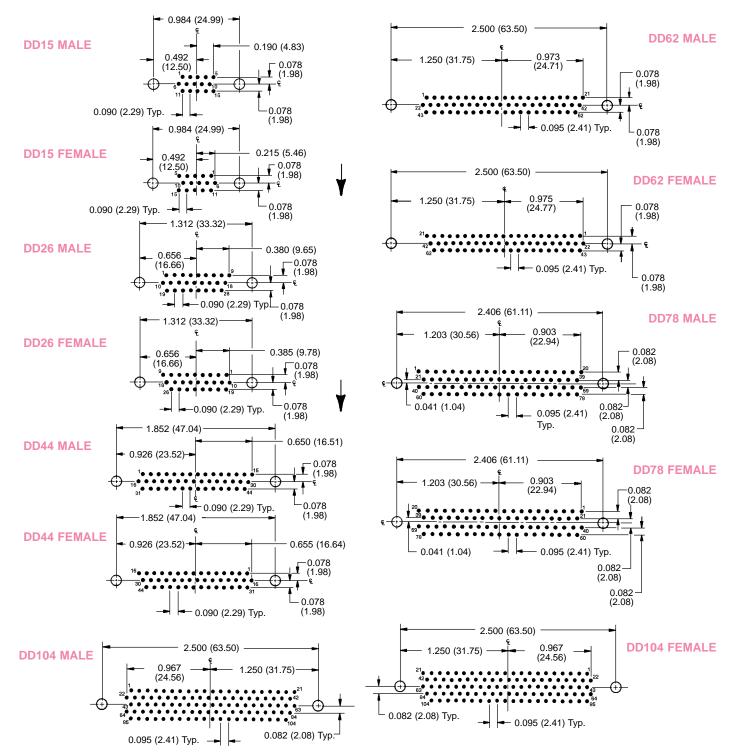


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.



## 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.

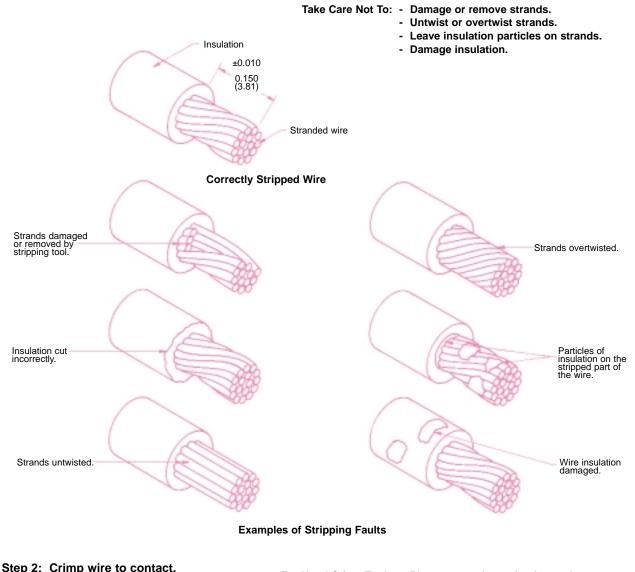
DD

Series

## **CRIMPING INFORMATION FOR DD AND ODD SERIES CRIMP CONTACTS**

#### USE INDICATED POSITRONIC TOOLS FOR BEST RESULTS

#### Step 1: Strip wire to indicated length.



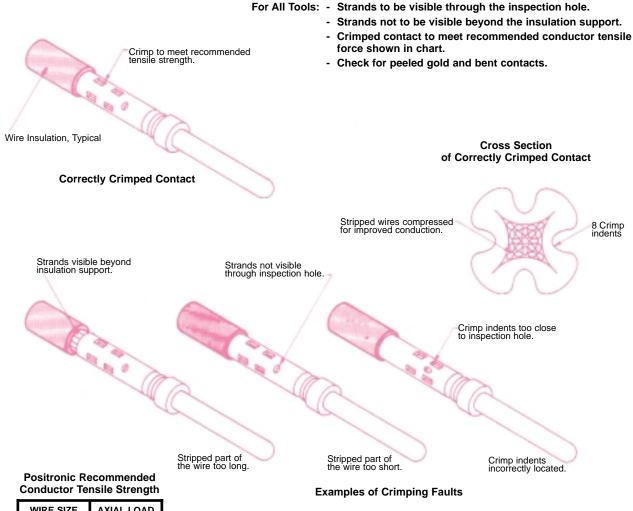
Step 2. Chinp wire to ca	crimp wire to contact.	For Hand Crimp Tool:		Place contact into crimping tool. Insert wire into contact.
			-	Center contact by slowly closing the crimping tool until the crimp indenters make contact with the crimp barrel.
			-	Complete the cycle of the crimping tool in one smooth 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 <sup>2</sup> )	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.

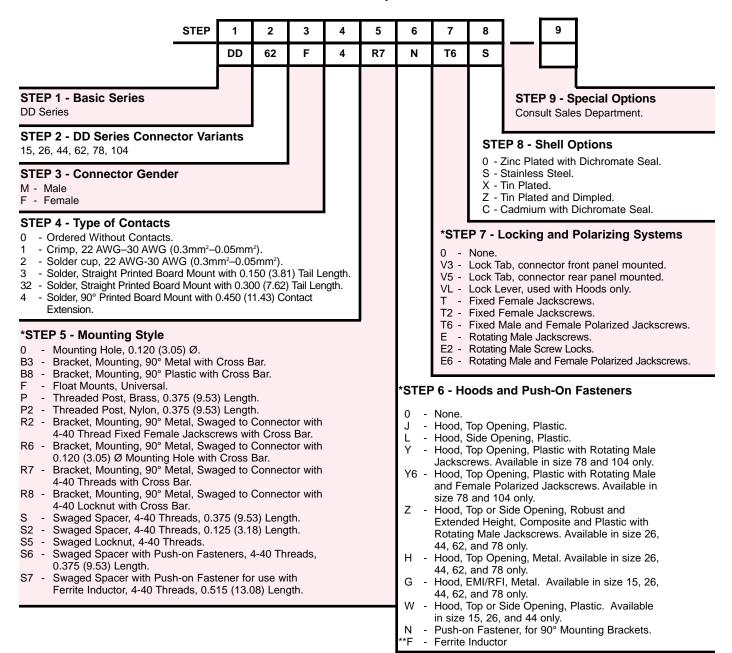
CRIMP TOOLS	POSITIONERS FOR FC8022D	POSITIONERS FOR MC8022D
9507, HAND CRIMP TOOL	9502-3	9502-4
9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL	Supplied in reels	Supplied in reels

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

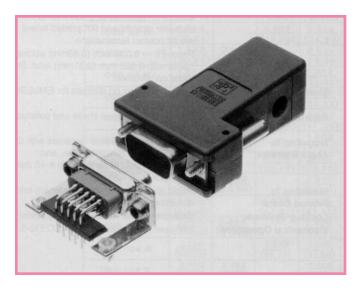
#### MILITARY QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SEVERE INDUSTRIAL ENVIRONMENTAL APPLICATIONS

#### 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 (0.5mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>). DD Series contacts must be ordered on reels.

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



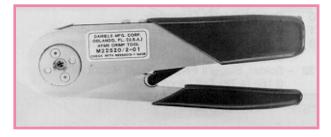


#### MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

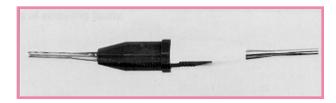
This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG (0.5mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>).

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

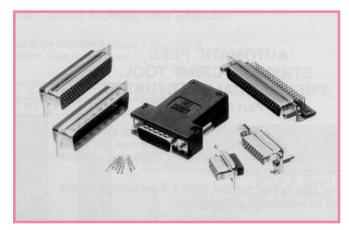
CSA Recognized File #LR54219

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 (0.3mm<sup>2</sup>) through 30 AWG (0.05mm<sup>2</sup>). Solder cup wire, 0.035 inch (0.89mm) hole diameter for 22 AWG (0.3mm<sup>2</sup>) 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.

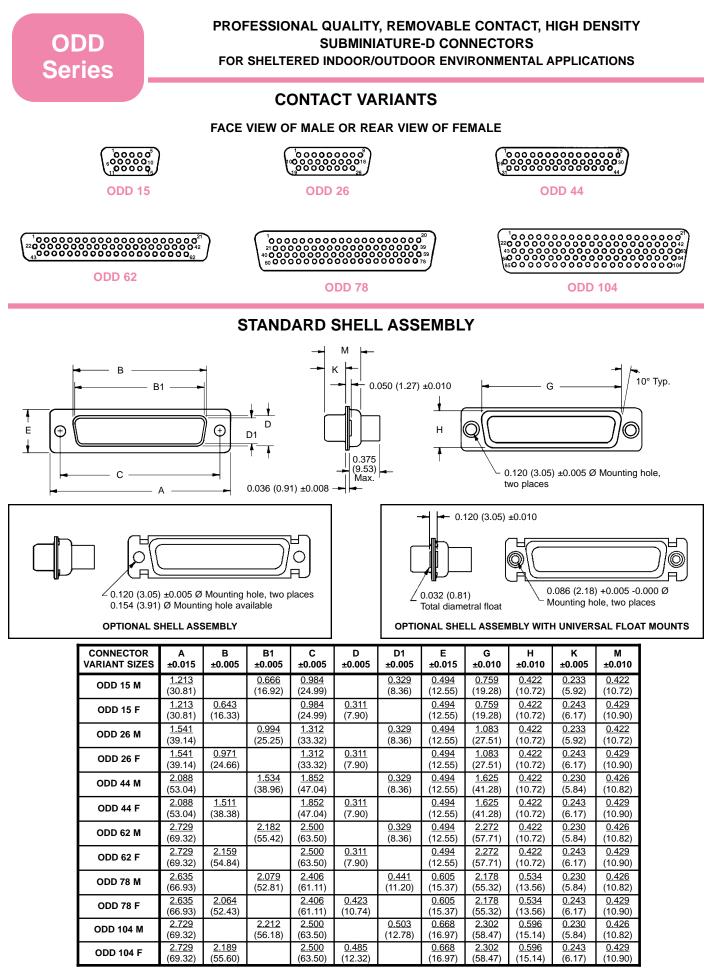
Trapezoidally shaped shells and polarized jackscrews.

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.



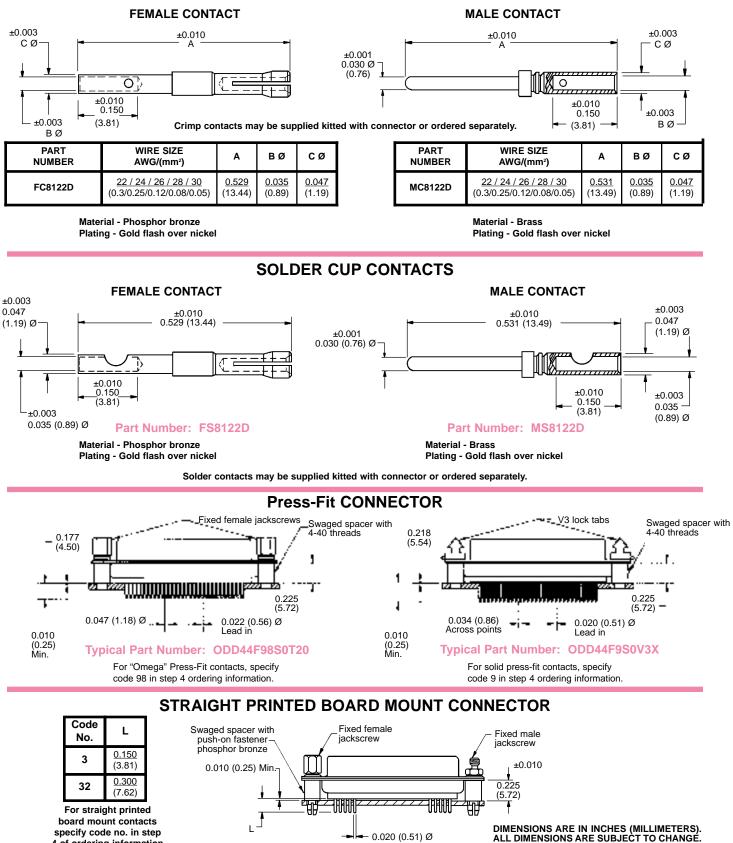
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.



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

## **CRIMP CONTACTS**

#### **CLOSED CRIMP BARREL**

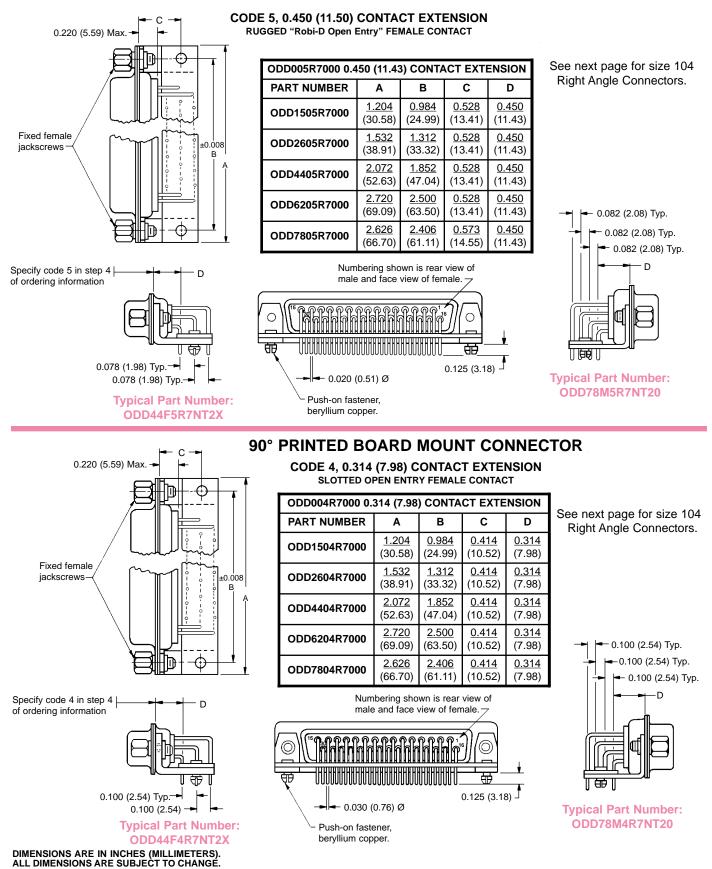


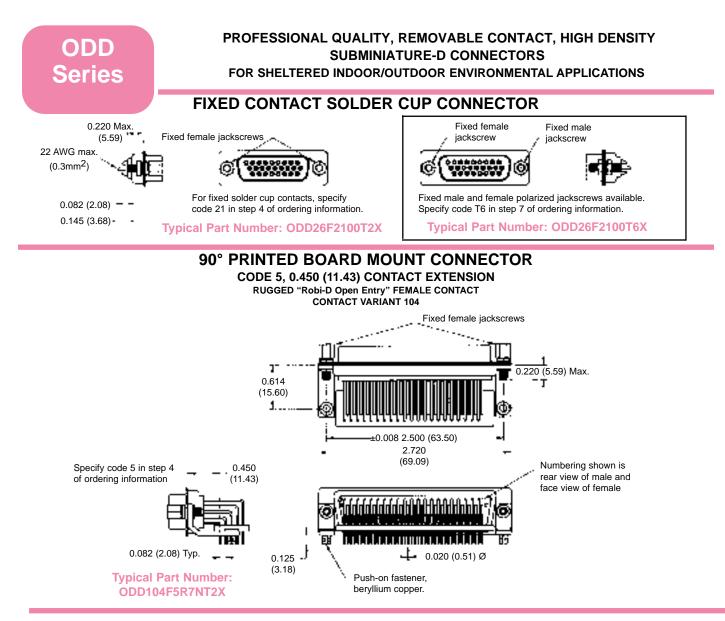
specify code no. in step 4 of ordering information

Typical Part Number: ODD62F3S60T6X

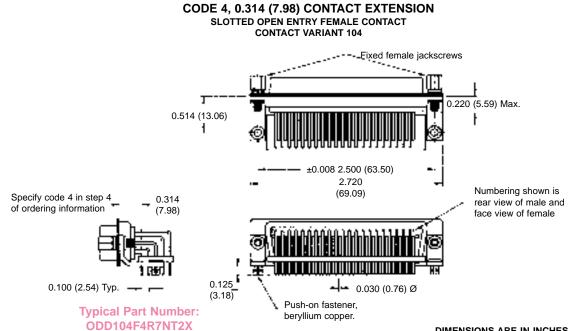
## ODD Series

## 90° PRINTED BOARD MOUNT CONNECTOR



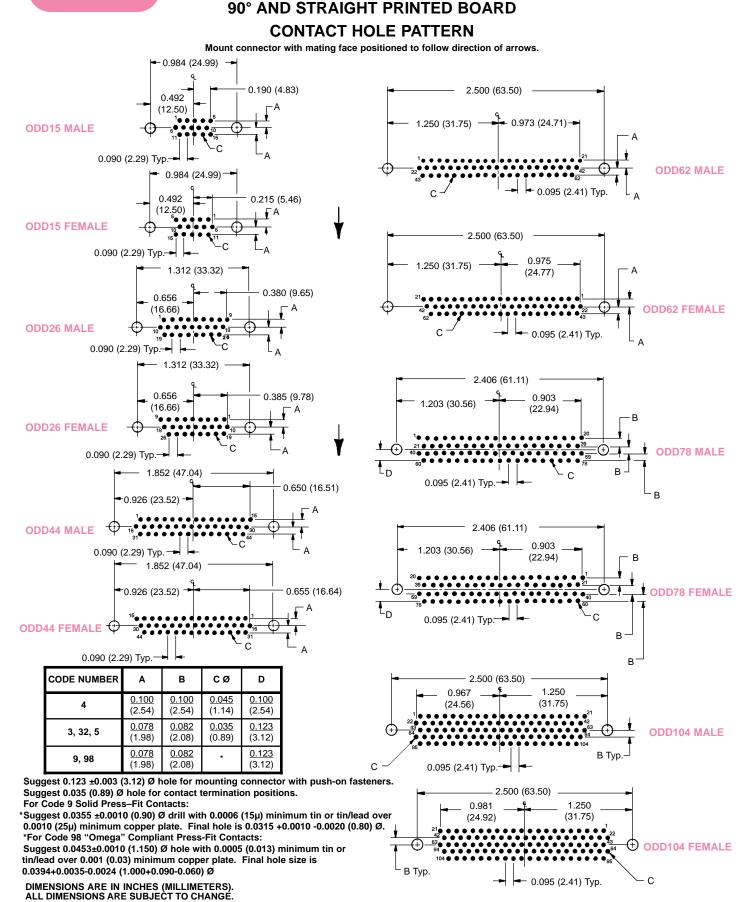


### 90° PRINTED BOARD MOUNT CONNECTOR



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** 

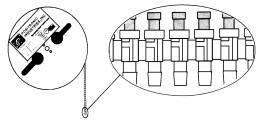
Series

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

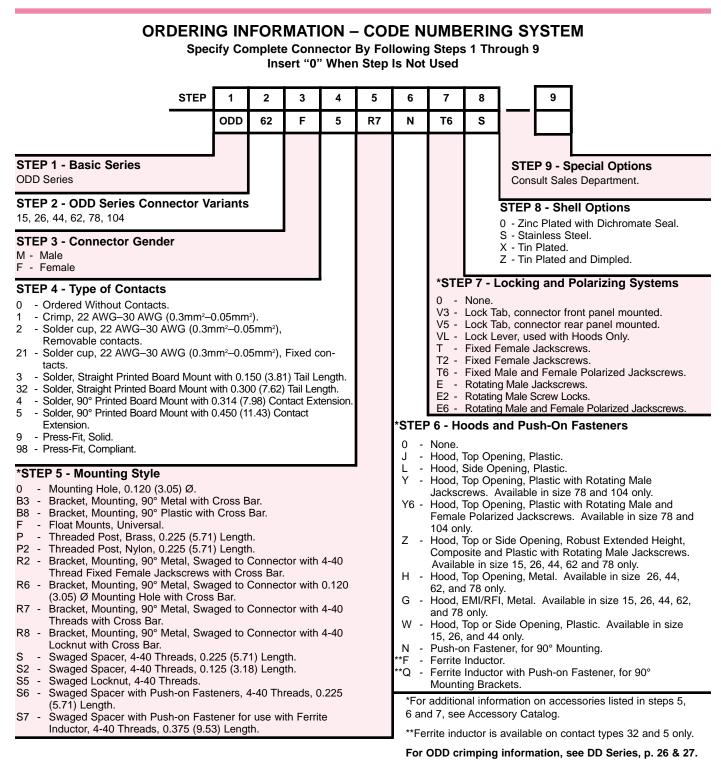
## REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

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 (0.5mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>). 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.

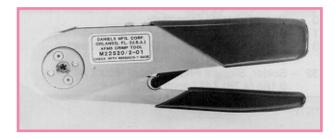
Values may change depending upon what type of wire is used.

#### MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

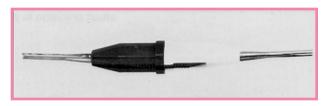
This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG (0.5mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>).

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

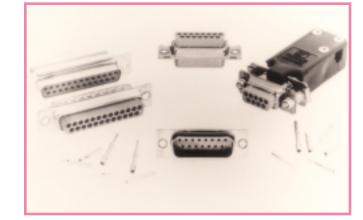
## ORD Series

#### 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:

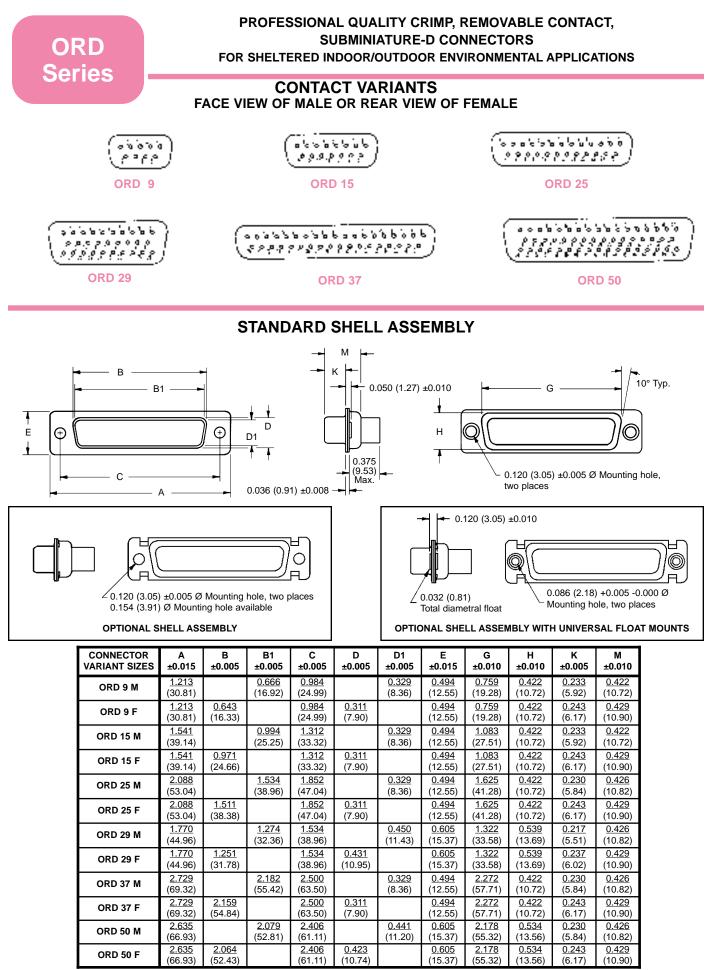
Contact Current Rating:	7.5 amperes nominal.		
Initial Contact Resistance:	0.005 ohms maximum.		
Proof Voltage:	1000 V r.m.s.		
Insulator Resistance:	5 G ohms.		
Clearance and Creepage Distance (minimum):	0.039 inch (1.0mm).		
Working Voltage:	300 V r.m.s.		

## **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 <sup>2</sup> ) through 24 AWG (0.25mm <sup>2</sup> ).
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

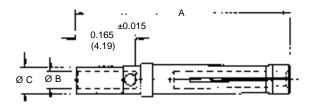
### **CRIMP CONTACTS**

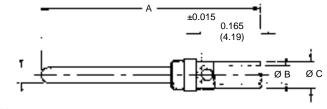
**CLOSED CRIMP BARREL** 

MALE CONTACT

FEMALE CONTACT







±0.001 • Ø 0.040 (1.02) <sup>--</sup>

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

Material – Brass. Plating – Gold flash over nickel.

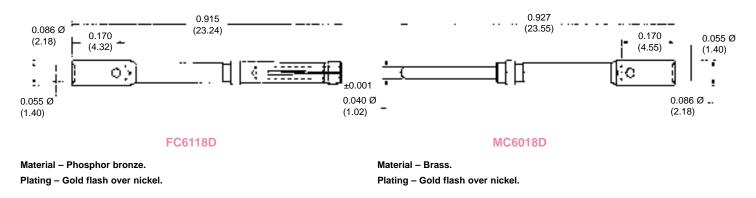
Closed entry contacts are available. See page 43 of the RD Series in this catalog for additional information.

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

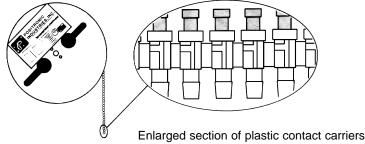




### **REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS**

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.

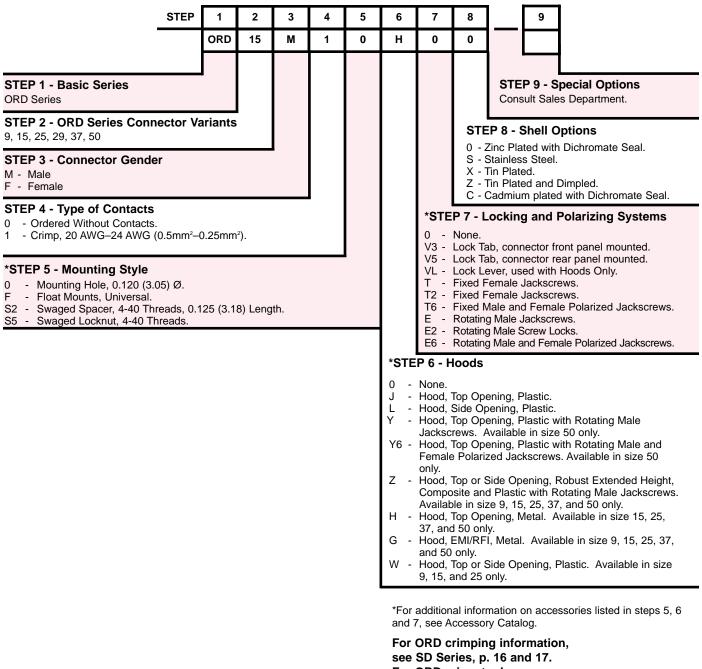
All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC6020DR for a male contact and FC6120DR for a female contact.



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.

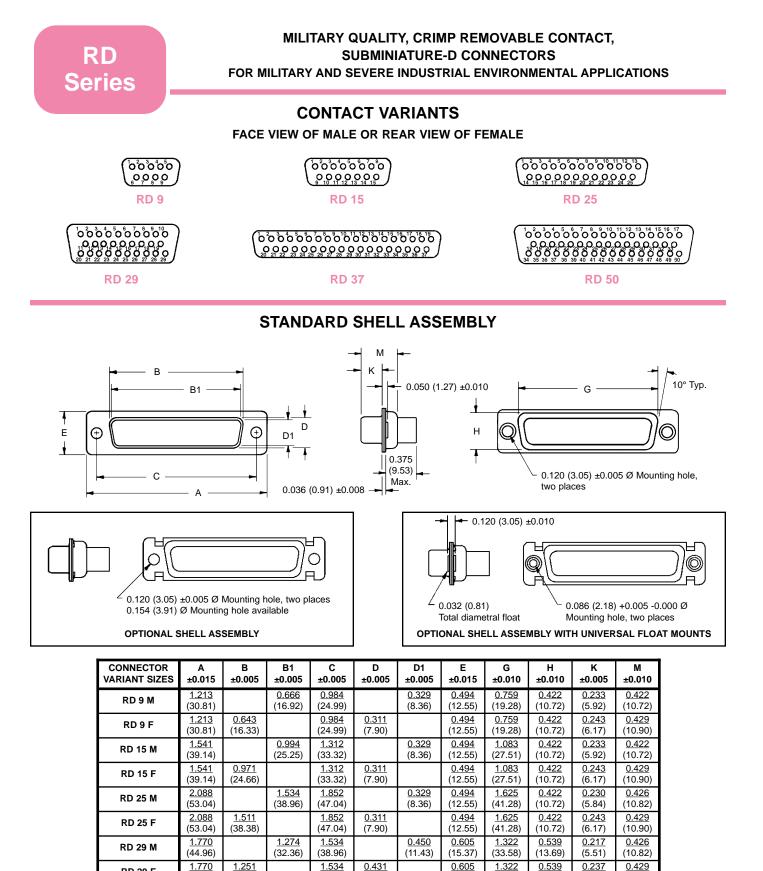
#### **CLIMATIC CHARACTERISTICS:**

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 <sup>2</sup> ) through 30 AWG (0.05mm <sup>2</sup> ).
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

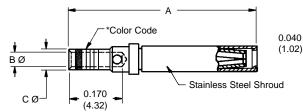
(11.20)



## **CRIMP CONTACTS**

#### **CLOSED CRIMP BARREL**

#### FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

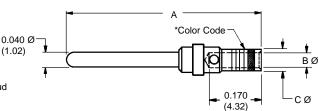


Material - Leaded nickel copper.

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 <sup>2</sup> )		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.

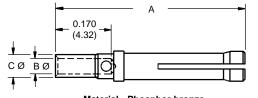
Plating - Gold flash over nickel or 0.000050 inch (1.25µ) gold over copper for military specification contacts.

\*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.

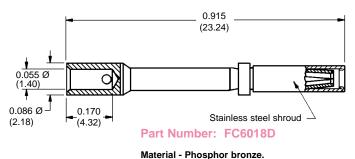
#### FEMALE CONTACT (""Robi-D Open Entry"" DESIGN)



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 (1.0mm<sup>2</sup>) max.

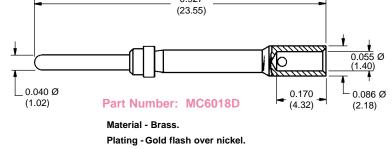


Plating - Gold flash over nickel.

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 (1.0mm<sup>2</sup>) 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.

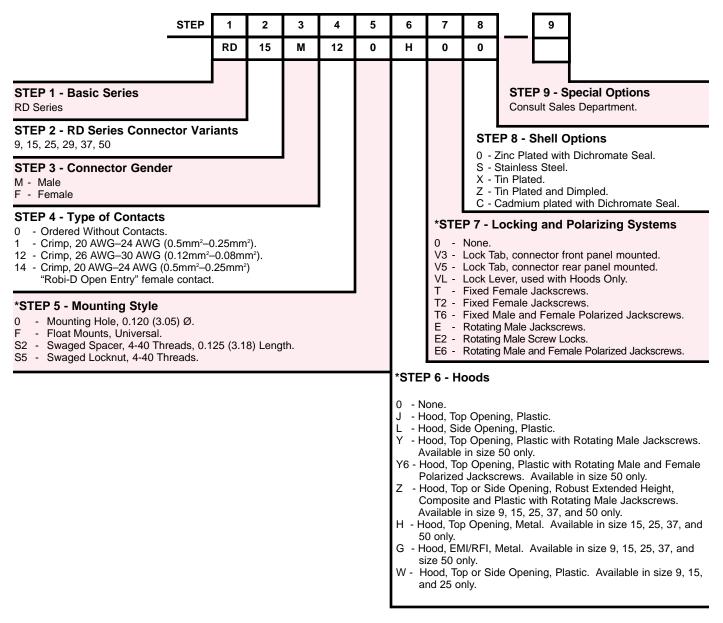
(1)



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 (0.5mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>). 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.

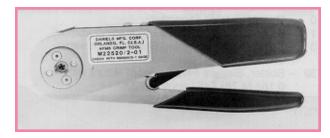
Values may change depending upon what type of wire is used.

#### MINIATURE STEP ADJUSTABLE TOOL

(M22520/2-01) Part No. 9507

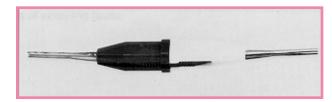
This miniature 8 step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 18 AWG (1.0mm<sup>2</sup>) through 32 AWG (0.03mm<sup>2</sup>).

To crimp wire size 18 AWG (1.0mm<sup>2</sup>), order contact positioner 9502-11. To crimp wire size 20 AWG (0.5mm<sup>2</sup>) through 30 AWG (0.05mm<sup>2</sup>), 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

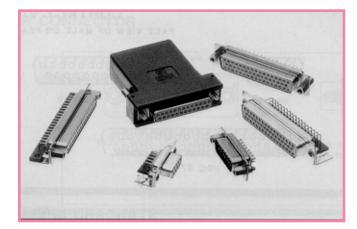
CSA Recognized File #LR54219

**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 (0.5mm<sup>2</sup>)

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.

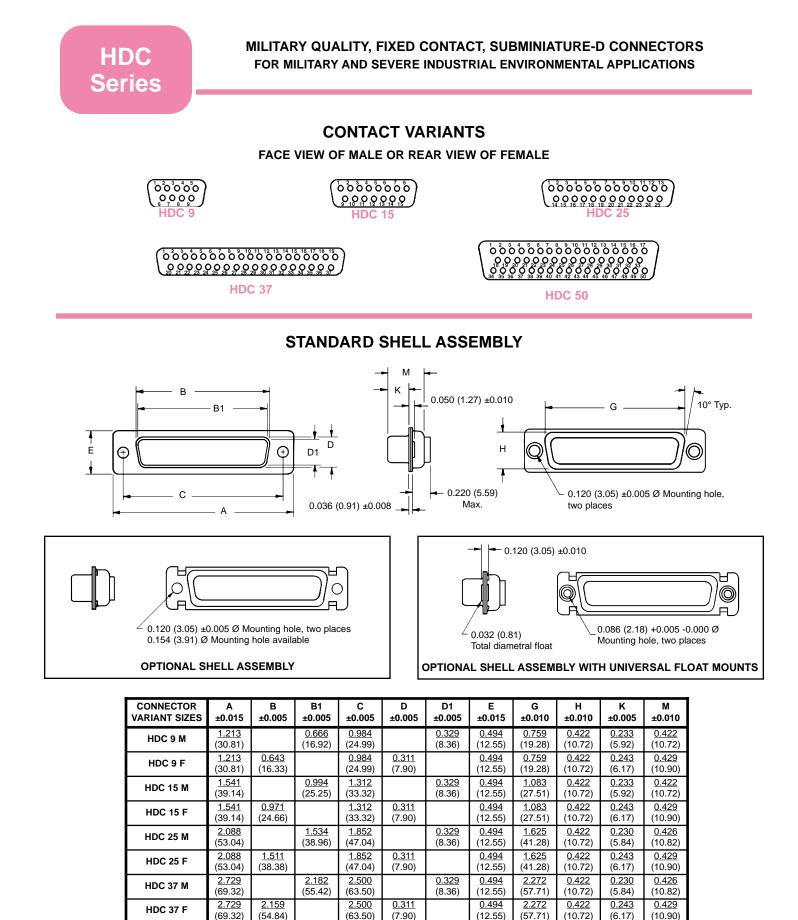
#### **ELECTRICAL CHARACTERISTICS:**

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

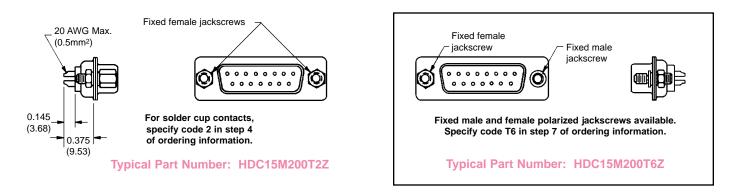
(10.82)

0.429

(10.90)

HDC Series

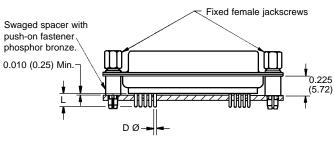
## SOLDER CUP CONNECTOR



## STRAIGHT PRINTED BOARD MOUNT CONNECTOR

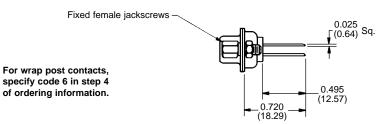
CODE NUMBER	L	DØ
3	<u>0.170</u> (4.32)	<u>0.028</u> (0.71)
32	<u>0.375</u> (9.53)	<u>0.028</u> (0.71)
36	<u>0.236</u> (6.00)	<u>0.024</u> (0.61)

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

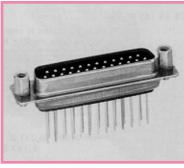


Typical Part Number: HDC25F3S60T0

### WRAP POST CONNECTOR



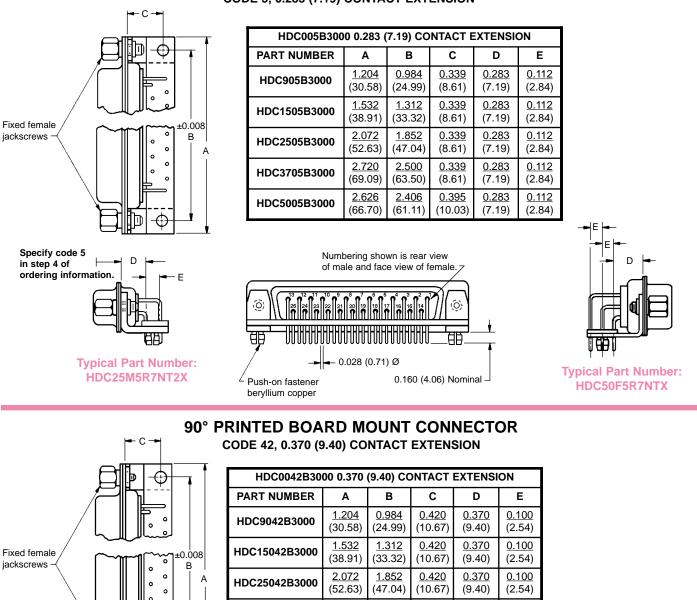
Typical part number: HDC15F600T0



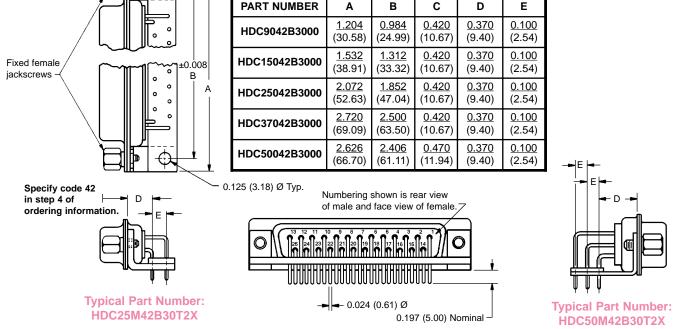
DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

HDC25M6S50T0

## 90° PRINTED BOARD MOUNT CONNECTOR



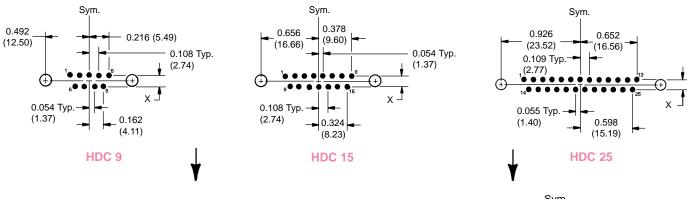
CODE 5, 0.283 (7.19) CONTACT EXTENSION

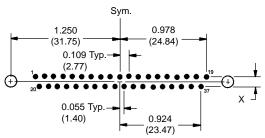


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

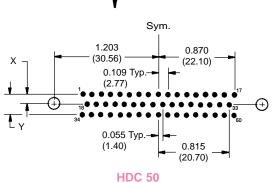
### 90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

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





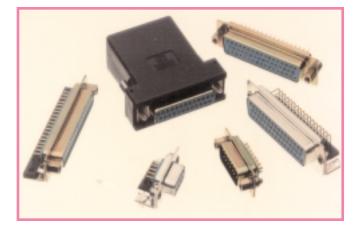
**HDC 37** 



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.
<b>STEP 3 - Connector Gender</b> M - Male F - Female				-					S - X - Z -	Stainless Tin Plated Tin Plated	s Steel. d. d and E	
<ul> <li>STEP 4 - Type of Contacts</li> <li>2 - Solder cup.</li> <li>3 - Solder, Straight Printed Board Tail Length.</li> <li>32 - Solder, Straight Printed Board Tail Length.</li> <li>33 - Solder, Straight Printed Board Tail Length.</li> <li>34 - Solder, Metric System 90° Prin 0.370 (9.40) Contact Extensio</li> <li>5 - Solder, 90° Printed Board Mou Contact Extension.</li> <li>6 - Wrap Post.</li> </ul> *STEP 5 - Mounting Style <ul> <li>0 - Mounting Hole, 0.120 (3.05)</li> <li>B3 - Bracket, Mounting, 90° Meta</li> <li>B8 - Bracket, Mounting, 90° Plast</li> <li>F - Float Mounts, Universal.</li> <li>P - Threaded Post, Brass, 0.225</li> <li>P2 - Threaded Post, Nylon, 0.225</li> <li>R2 - Bracket, Mounting, 90° Meta Thread Fixed Female Jacksco</li> <li>R6 - Bracket, Mounting, 90° Meta Threads with Cross Bar.</li> <li>R8 - Bracket, Mounting, 90° Meta Threads with Cross Bar.</li> <li>R8 - Bracket, Mounting, 90° Meta Cocknut with Cross Bar.</li> <li>R8 - Bracket, Mounting, 90° Meta Cocknut with Cross Bar.</li> <li>R8 - Bracket, Mounting, 90° Meta Cocknut with Cross Bar.</li> <li>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.</li> </ul>	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. <b>n Fasteners</b>

\*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)

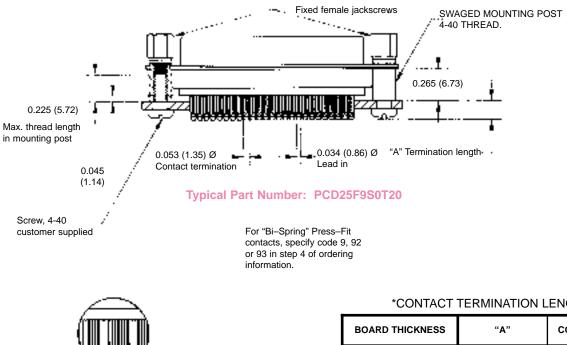


DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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**

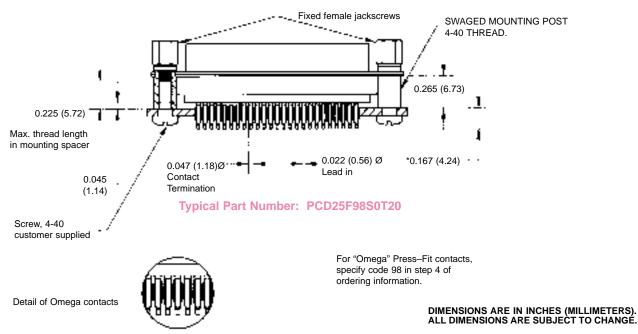


Detail of Bi-Spring contacts

#### **\*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**

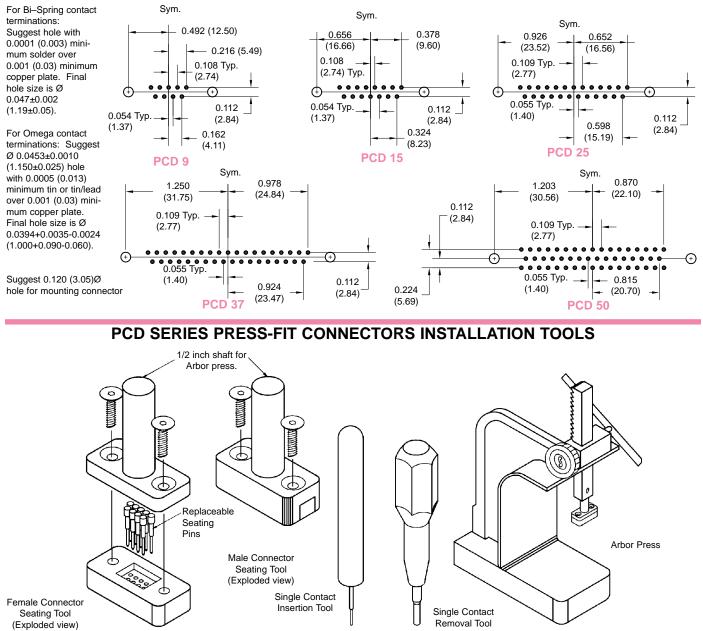


\*The effective length of the compliant section may also be varied (longer or shorter) and can be selectively positioned and centered at several points along the contact termination length, permitting high or low profile mounting of the connector on printed boards.

## 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



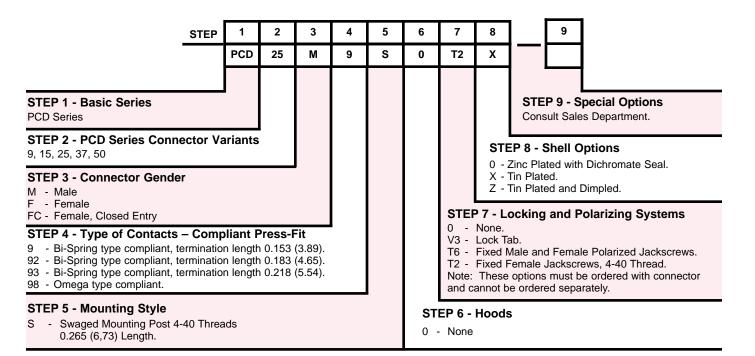
#### Positronic recommended tools for PCD Series Connectors and Contacts

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



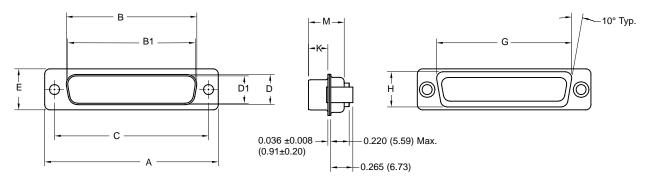
PCDD 62



PCDD 104

### STANDARD SHELL ASSEMBLY

**PCDD 78** 

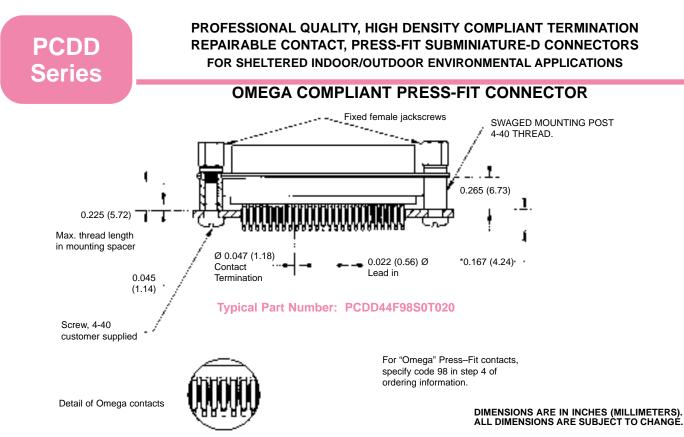


CONNECTOR VARIANT SIZES	A ±0.015	В ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
PCDD 15 M	<u>1.213</u> (30.81)		<u>0.666</u> (16.92)	<u>0.984</u> (24.99)		<u>0.329</u> (8.36)	<u>0.494</u> (12.55)	<u>0.759</u> (19.28)	<u>0.422</u> (10.72)	<u>0.233</u> (5.92)	<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)

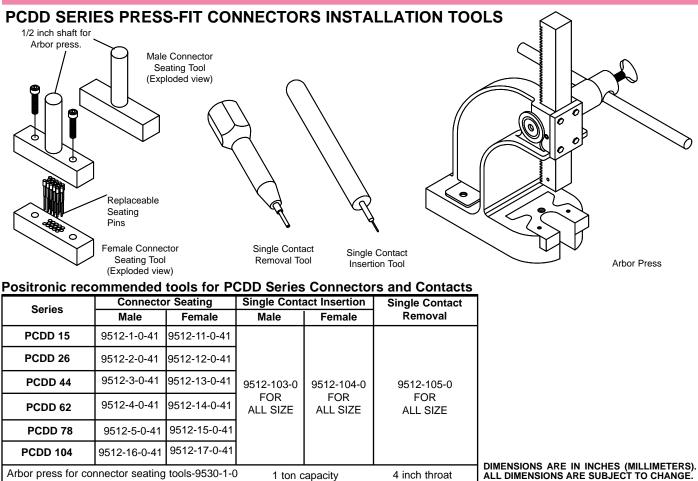
## "Omega" Compliant Termination



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.



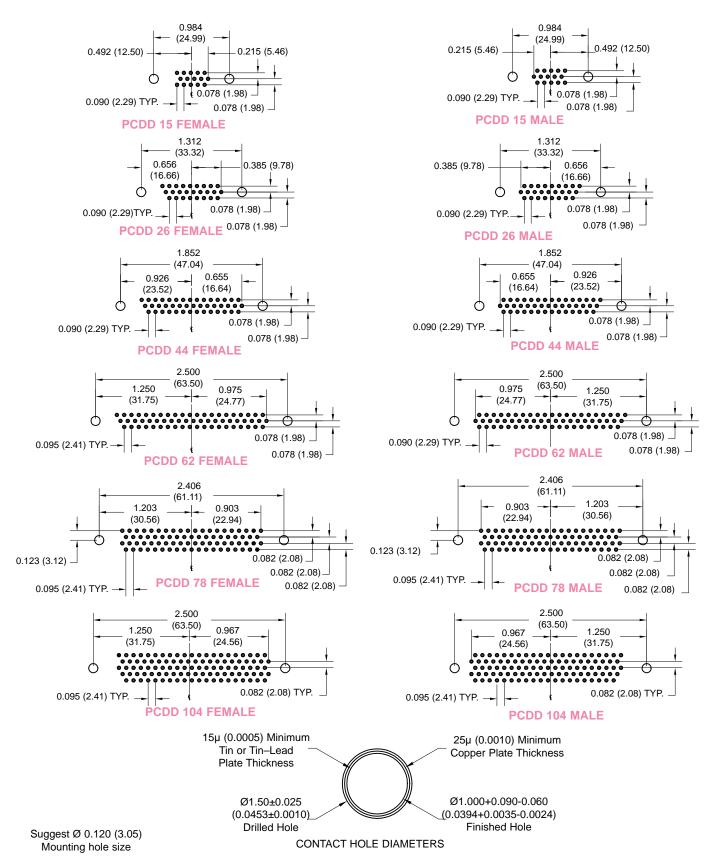
Female - 855-751-0-41

Replacement pins for connector seating tools,

## PCDD Series

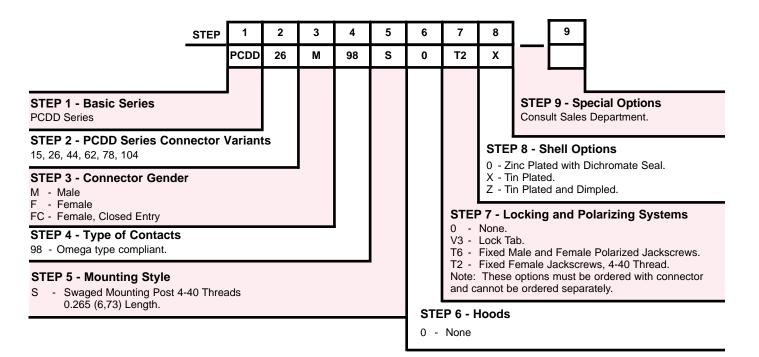
PROFESSIONAL QUALITY, HIGH DENSITY COMPLIANT TERMINATION REPAIRABLE CONTACT, PRESS-FIT SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

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	<b>POSITRONIC</b> *	MILITARY	<b>POSITRONIC</b> *	MILITARY	<b>POSITRONIC</b> *
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
	··· ··· •						

#### 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
		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.

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								
Md23084-66P         RD25F1F002-50-400.1         Md2308-547         RD15F0000-403.3         Md23087-10P         HDC23MER00-50-400.3         Md23087-20F         HDC37MER00-50-400.3         Md23087-20F         HDC37MER00-50-40.3         Md23087-20F         HDC37MER00-50-40.3        <								
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
M24308/6-493F         RD25F0F000-403.0         M24308/6-572         DD104F1F000-5043.6         M24308/6-59         RD50M10005-50         M24308/6-268P         DD78M0000S           M24308/6-493F         RD25F0F00C-403.0         M24308/6-574         RD15F0F000-403.4         M24308/6-6F         RD9M1000C-50-403.1         M24308/6-269         DD104M0000C-403.0           M24308/6-494F         RD37F0F00C-403.0         M24308/6-576         RD25F0F000-403.4         M24308/6-FF         RD9M1000C-50-403.1         M24308/6-269F         DD104M0000C-403.3           M24308/6-494F         RD37F0F00C-403.0         M24308/6-576         RD37F0F000-403.4         M24308/6-7F         RD15M1000C-50-403.1         M24308/6-336         RD15M10000-50-403.3           M24308/6-495F         RD50F0F000-403.0         M24308/6-578         DD126F0F000-403.4         M24308/6-7F         RD15M10000-50-403.1         M24308/6-337         RD25M10000-50-403.3           M24308/6-495F         RD50F0F000-403.0         M24308/6-580         DD24F0F000-403.4         M24308/6-8F         RD25M10000-50-403.1         M24308/6-338         RD37M10000-50-403.1         M24308/6-340         RD9M10000-50-403.5           M24308/6-496F         D15F0F000-403.0         M24308/6-582         DD76F00-403.4         M24308/6-8F         RD25M10005-50-400.1         M24308/6-340         RD9M1000-50-403.5           M24308/6-49F								
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								
M24308/6-494PRD37F0F00SM24308/6-577RD50F0F00-403.4M24308/8-7FRD15M1000C-50-403.1M24308/8-336RD15M1000-50-403.3M24308/6-495FRD50F0F00C-403.0M24308/6-578DD15F0F000-403.4M24308/8-87RD15M1000-50-403.3M24308/8-338RD37M10000-50-403.3M24308/6-495FRD50F0F00SM24308/6-579DD26F0F000-403.4M24308/8-88RD25M1000C-50-403.1M24308/8-339RD50M1000-50-403.3M24308/6-496DD15F0F00-403.0M24308/6-581DD26F0F000-403.4M24308/8-8FRD25M1000C-50-403.1M24308/8-340RD9M1000-50-403.5M24308/6-496FDD15F0F00C-403.0M24308/6-582DD78F0F000-403.4M24308/8-9FRD37M10000-50-403.1M24308/8-340RD9M1000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/6-583DD104F0F000-403.4M24308/8-9FRD37M10000-50-403.1M24308/8-342RD25M10000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/7-1FHDC9M2000-50-403.0M24308/8-9FRD37M1000C-50-403.1M24308/8-344RD37M10000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/7-1FHDC9M2000-50-403.0M24308/8-10FRD50M10000-50-403.1M24308/8-344RD37M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-2FHDC15M2000C-50-403.0M24308/8-10FRD50M1000C-50-403.0M24308/8-346DD28M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-3FHDC15M2000C-50-403.0M24308/8-11FDD15M1000C-50-403.0M24308/8-346DD28M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24								
M24308/6-495RD50F0F000-403.0M24308/6-578DD15F0F000-403.4M24308/8-7PRD15M10005-50-400.0M24308/8-337RD25M10000-50-403.3M24308/6-495FRD50F0F00C-403.0M24308/6-579DD26F0F000-403.4M24308/8-8FRD25M10000-50-403.1M24308/8-338RD37M10000-50-403.3M24308/6-495FRD50F000-403.0M24308/6-580DD44F0F000-403.4M24308/8-8FRD25M10000-50-400.0M24308/8-339RD50M10000-50-403.3M24308/6-496FDD15F0F000-403.0M24308/6-582DD78F0F000-403.4M24308/8-8PRD25M10000-50-403.1M24308/8-341RD9M10000-50-403.5M24308/6-496FDD15F0F00SM24308/6-583DD104F0F000-403.4M24308/8-9FRD37M10000-50-403.1M24308/8-342RD25M10000-50-403.5M24308/6-497FDD26F0F000-403.0M24308/7-1FHDC9M20000-50-403.0M24308/8-9PRD37M10000-50-403.1M24308/8-343RD5M10000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/7-1FHDC9M2000C-50-403.0M24308/8-10FRD50M1000-50-403.1M24308/8-345DD15M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-2FHDC15M2000C-50-403.0M24308/8-10FRD50M1000-50-403.0M24308/8-345DD16M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-2FHDC15M2000C-50-403.0M24308/8-10FRD50M1000C-50-403.0M24308/8-346DD26M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-3FHDC25M2000C-50-403.0M24308/8-11FDD15M1000-50-403.0M24308/8-348DD62M10000-50-403.3M24308/6-499FDD62F0F00C-403								
M24308/6-495F         RD50F0F00C-403.0         M24308/6-579         DD26F0F000-403.4         M24308/8-8F         RD25M10000-50-403.1         M24308/8-338         RD37M10000-50-403.3           M24308/6-495F         DD15F0F000S         M24308/6-580         DD44F0F000-403.4         M24308/8-8F         RD25M1000C-50-403.1         M24308/8-330         RD50M10000-50-403.5           M24308/6-496F         DD15F0F00C-403.0         M24308/6-582         DD78F0F000-403.4         M24308/8-9F         RD37M10000-50-403.1         M24308/8-341         RD15M10000-50-403.5           M24308/6-496F         DD15F0F00S         M24308/6-583         DD14P0F000-403.4         M24308/8-9F         RD37M10000-50-403.1         M24308/8-342         RD25M10000-50-403.5           M24308/6-497F         DD26F0F000-403.0         M24308/7-1F         HDC9M2000C-50-403.0         M24308/8-9F         RD37M10000-50-403.1         M24308/8-344         RD50M10000-50-403.5           M24308/6-497F         DD26F0F000S         M24308/7-1P         HDC9M2000C-50-403.0         M24308/8-10F         RD50M1000C-50-403.1         M24308/8-344         RD50M10000-50-403.3           M24308/6-497F         DD26F0F00S         M24308/7-2F         HDC15M2000C-50-403.0         M24308/8-10F         RD50M1000C-50-403.0         M24308/8-344         RD50M10000-50-403.3           M24308/6-498F         DD44F0F00C-403.0         M243								
M24308/6-496DD15F0F000-403.0M24308/6-581DD62F0F000-403.4M24308/8-8PRD25M1000S-50-400.0M24308/8-340RD9M10000-50-403.5M24308/6-496FDD15F0F00C-403.0M24308/6-582DD78F0F000-403.4M24308/8-9FRD37M1000C-50-403.1M24308/8-341RD15M10000-50-403.5M24308/6-497FDD26F0F000-403.0M24308/7-1FHDC9M2000-50-403.0M24308/8-9FRD37M10005-50-400.0M24308/8-343RD37M10000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/7-1FHDC9M2000C-50-403.0M24308/8-10RD50M1000C-50-403.1M24308/8-344RD50M10000-50-403.5M24308/6-497FDD26F0F00SM24308/7-1FHDC9M2000C-50-403.0M24308/8-10RD50M1000C-50-403.1M24308/8-346DD15M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-2FHDC15M2000C-50-403.0M24308/8-10PRD50M1000C-50-403.0M24308/8-346DD15M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-2FHDC15M2000C-50-403.0M24308/8-11FDD15M10000-50-403.0M24308/8-347DD44M10000-50-403.3M24308/6-498FDD44F0F00SM24308/7-3FHDC25M2000C-50-403.0M24308/8-11FDD15M1000C-50-403.0M24308/8-348DD62M1000-50-403.3M24308/6-499FDD62F0F00C-403.0M24308/7-3FHDC25M2000C-50-403.0M24308/8-12FDD26M1000C-50-403.0M24308/8-355DD18M10000-50-403.3M24308/6-499FDD62F0F00C-403.0M24308/7-3FHDC25M2000C-50-403.0M24308/8-12FDD26M1000C-50-403.0M24308/8-355DD14M1000-50-403.3M24308/6-500FDD78F0F00		RD50F0F00C-403.0		DD26F0F000-403.4	M24308/8-8			
M24308/6-496FDD15F0F00C-403.0M24308/6-582DD78F0F000-403.4M24308/8-9RD37M10000-50-403.1M24308/8-341RD15M10000-50-403.5M24308/6-496PDD15F0F00SM24308/6-583DD104F0F000-403.4M24308/8-9FRD37M1000C-50-403.1M24308/8-342RD25M10000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/7-11HDC9M2000C-50-403.0M24308/8-9FRD37M1000C-50-403.1M24308/8-344RD50M10000-50-403.5M24308/6-497FDD26F0F00C-403.0M24308/7-1FHDC9M2000C-50-403.0M24308/8-10FRD50M1000C-50-403.1M24308/8-344RD50M10000-50-403.3M24308/6-497FDD26F0F00SM24308/7-2FHDC15M2000C-50-403.0M24308/8-10FRD50M1000C-50-403.1M24308/8-345DD15M10000-50-403.3M24308/6-498FDD44F0F00C-403.0M24308/7-2FHDC15M2000C-50-403.0M24308/8-10FRD50M1000C-50-403.0M24308/8-346DD26M10000-50-403.3M24308/6-498FDD44F0F00SM24308/7-2FHDC15M2000C-50-403.0M24308/8-11FDD15M1000C-50-403.0M24308/8-348DD62M10000-50-403.3M24308/6-499FDD62F0F000-403.0M24308/7-3FHDC25M2000C-50-403.0M24308/8-11FD15M1000C-50-403.0M24308/8-350DD14M10000-50-403.3M24308/6-499FDD62F0F00C-403.0M24308/7-3FHDC25M2000C-50-403.0M24308/8-12FDD26M10000-50-403.0M24308/8-351D15M10000-50-403.3M24308/6-499FDD62F0F00C-403.0M24308/7-4FHDC37M2000C-50-403.0M24308/8-12FDD26M10000-50-403.0M24308/8-351D164M10000-50-403.5M24308/6-500FDD78F0F00								
M24308/6-496P         DD15F0F00S         M24308/6-583         DD104F0F000-403.4         M24308/8-9F         RD37M1000C-50-403.1         M24308/8-342         RD25M1000-50-403.5           M24308/6-497F         DD26F0F000-403.0         M24308/7-11         HDC9M2000-50-403.0         M24308/8-9P         RD37M10005-50-400.1         M24308/8-343         RD37M10000-50-403.5           M24308/6-497F         DD26F0F00C         M24308/7-1F         HDC9M2000-50-403.0         M24308/8-10F         RD50M1000-50-403.1         M24308/8-344         RD50M1000-50-403.3           M24308/6-498F         DD44F0F000-403.0         M24308/7-1F         HDC9M2000-50-403.0         M24308/8-10F         RD50M1000-50-403.1         M24308/8-345         DD15M1000-50-403.3           M24308/6-498F         DD44F0F000-403.0         M24308/7-2F         HDC15M2000-50-403.0         M24308/8-11F         DD15M1000-50-403.0         M24308/8-347         DD44M10000-50-403.3           M24308/6-498F         DD44F0F000         M24308/7-2F         HDC15M2000-50-403.0         M24308/8-11F         D15M1000-50-403.0         M24308/8-348         DD62M1000-50-403.3           M24308/6-499F         DD62F0F000-403.0         M24308/7-3F         HDC25M2000-50-403.0         M24308/8-11F         D15M1000-50-403.0         M24308/8-348         DD62M1000-50-403.3           M24308/6-499F         DD62F0F000-403.0         M24308								
M24308/6-497F         DD26F0F00C-403.0         M24308/7-1F         HDC9M2000C-50-403.0         M24308/8-10         RD50M10000-50-403.1         M24308/8-344         RD50M10000-50-403.5           M24308/6-497F         DD26F0F00S         M24308/7-1P         HDC9M2000C-50-403.0         M24308/8-10F         RD50M1000C-50-403.1         M24308/8-345         DD15M10000-50-403.3           M24308/6-498F         DD44F0F00C-403.0         M24308/7-2F         HDC15M2000C-50-403.0         M24308/8-10P         RD50M1000C-50-403.0         M24308/8-346         DD26M10000-50-403.3           M24308/6-498F         DD44F0F00C-403.0         M24308/7-2F         HDC15M2000C-50-403.0         M24308/8-11P         DD15M10000-50-403.0         M24308/8-347         DD44M10000-50-403.3           M24308/6-498F         DD62F0F000-403.0         M24308/7-3F         HDC25M2000C-50-403.0         M24308/8-11F         DD15M1000C-50-403.0         M24308/8-348         DD62M1000-50-403.3           M24308/6-499F         DD62F0F00-403.0         M24308/7-3F         HDC25M2000C-50-403.0         M24308/8-12F         DD26M10000-50-403.0         M24308/8-35D         DD14M1000-50-403.3           M24308/6-499F         DD62F0F00C         M24308/7-3F         HDC25M2000C-50-403.0         M24308/8-12F         DD26M1000C-50-403.0         M24308/8-35D         DD14M1000-50-403.3           M24308/6-500F         DD78F0F00-403.0<								
M24308/6-497P         DD26F0F00S         M24308/7-1P         HDC9M2000S-50         M24308/8-10F         RD50M1000C-50-403.1         M24308/8-345         DD15M10000-50-403.3           M24308/6-498F         DD44F0F000-403.0         M24308/7-2F         HDC15M20000-50-403.0         M24308/8-11P         DD15M10000-50-403.0         M24308/8-345         DD26M10000-50-403.3           M24308/6-498F         DD44F0F00C         M24308/7-2F         HDC15M2000C-50-403.0         M24308/8-11P         DD15M1000C-50-403.0         M24308/8-348         DD26M10000-50-403.3           M24308/6-499F         DD62F0F000-403.0         M24308/7-2F         HDC15M2000C-50-403.0         M24308/8-11F         DD15M1000C-50-403.0         M24308/8-348         DD62M1000-50-403.3           M24308/6-499F         DD62F0F000-403.0         M24308/7-3F         HDC25M2000-50-403.0         M24308/8-12P         DD26M10000-50-403.0         M24308/8-350         DD14M10000-50-403.3           M24308/6-499F         DD62F0F000S         M24308/7-3F         HDC25M2000-50-403.0         M24308/8-12F         DD26M10000-50-403.0         M24308/8-351         DD15M10000-50-403.3           M24308/6-500F         DD78F0F000-403.0         M24308/7-4F         HDC37M2000-50-403.0         M24308/8-12F         DD26M10000-50-403.0         M24308/8-352         DD26M10000-50-403.3           M24308/6-500F         DD78F0F00C-403.0								
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		
			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.

	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	<b>POSITRONIC</b> *	MILITARY	<b>POSITRONIC</b> *	MILITARY	<b>POSITRONIC</b> *	MILITARY	<b>POSITRONIC</b> *
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							
M4330823-76P         DD027448800-50         M4230824-31P         FOC3ME8000-50         M4230824-32         FOC3ME8000-50           M4330823-77         DD78748800-50         M4230824-32         FOC1MM88000-50         M4230824-44P         DD2MMPPO0-50           M4330824-FF         HOC3MPPO0-50         M4230824-33P         FOC2MM89000-50         M4230824-44P         DD2MMPPO0-50           M4330824-FF         HOC3MPPO0-50         M4230824-33P         FOC2MM89000-50         M4230824-46F         DD7MMPPO0-50           M4330824-FF         HOC3MPPO0-50         M4230824-33F         HOC2MM89000-50         M4230824-46F         DD1MM2PD00-50           M4330824-3F         HOC2MM89000-50         M4230824-3F         HOC2MM89000-50         M4230824-46F         DD1MM2PD00-50           M4330824-3F         HOC2MM8900-50         M4230824-3F         HOC2MM8900-50         M4230824-47F         DD1MM2PD00-50           M4330824-3F         HOC2MM8900-50         M4230824-3F         HOC2MM8900-50         M4230824-47F         DD1MM2PD00-50           M4330824-4F         HOC2MM8900-50         M4230824-3FF         HOC2MM8900-50         M4230824-47F         DD1MM2P00-50           M4330824-4F         HOC2MM8900-50         M4230824-47F         DD1MM2900-50         M4230824-47F         DD1MM28000-50         M4230824-47F         DD1MM28							
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         <							
Mc340822-77P         DD78/F48800-50         Mc240822-41P         DD28/F48800-50         Mc240822-44P         DD28/F49700-50           Mc340824-1F         HDC6MSP00-50         Mc240824-3F         HDC28MS8000-50         Mc240824-44P         DD26MSP00-50           Mc240824-1F         HDC1MSP00-50         Mc240824-3F         HDC28MS8000-50         Mc240824-47F         D16MS2P000-50           Mc240824-2F         HDC1MSP00-50         Mc240824-3F         HDC23MS8000-50         Mc240824-47F         D16MS2P000-50           Mc340824-3F         HDC25MS900-50         Mc240824-3F         HDC23MS9000-50         Mc240824-48F         D26MS2P000-50           Mc340824-4F         HDC3MS9000-50         Mc240824-3F         HDC3MS9000-50         Mc240824-48F         D26MS2P000-50           Mc340824-4F         HDC3MS9000-50         Mc240824-3F         HDC3MS8000-50-76.5         Mc240824-48F         D26MS2P000-50           Mc340824-4F         HDC3MS9000-50         Mc240824-48F         D26MS2P000-50         Mc240824-47F         D16MS2P000-50           Mc340824-4F         HDC3MS9000-50         Mc240824-47F         D16MS2P000-50         Mc240824-47F         D16MS2P000-50           Mc340824-4F         HDC3MS9000-50         Mc240824-47F         D16MS2900-50         Mc240824-47F         D16MS2900-50           Mc340824-4F<							
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	
M4230824-1P       HDC15MSP005-50       M4230824-38P       HDC25MS8005-50       M4230824-67P       DD5MSP005-50         M4230824-2F       HDC15MSP005-60       M4230824-3F       HDC37MS8000-50       M4230824-67P       DD5MSP005-50         M4230824-2F       HDC15MSP005-80       M4240824-3F       HDC37MS8000-50       M4230824-67P       DD5MS2P005-50         M4230824-3F       HDC25MS900-50       M4230824-3F       HDC37MS8000-50       M4230824-67P       DD5MS2P005-50         M4230824-4F       HDC37MS900-50       M4230824-3F       HDC3MS900-50       M4230824-3F       DD26MS2P00-50         M4230824-4F       HDC37MS900-50       M4230824-3F       HDC3MS900-50       M4230824-3F       DD4MM32P00-50         M4230824-4F       HDC37MS900-50       M4230824-3F       HDC3MS900-50-376       M4230824-4F       DD4MM32P00-50         M4230824-4F       HDC37MS900-50       M4230824-3F       HDC3MS900-57.50       M4230824-8F       DD4MM32P00-50         M4230824-4F       HDC3MS900-50-37.51       M4230824-3F       HDC3MS900-57.50       M4230824-77       DD4MM32P00-50         M4230824-4F       HDC3MS900-50-37.51       M4230824-3F       HDC3MS900-57.56       M4230824-77       DD4MM32P00-50         M4230824-4F       HDC3MS900-50-37.51       M4240824-4F       HDC2SMS9005-57.56       <	M24308/24-1	HDC9M3P000-50	M24308/24-33	HDC25M5B8000-50	M24308/24-65	DD78M3P000-50	
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			
Md:308/24-2F         HDC:15M3P00C-50         Md:308/24-3F         HDC:37M3B00C-50         Md:308/24-3F         DD:15M32P00C-50           Md:308/24-3F         HDC:25M3P00S-50         Md:308/24-3F         DD:15M32P00C-50         Md:308/24-3F         DD:15M32P00C-50           Md:308/24-4F         HDC:25M3P00S-50         Md:308/24-3F         DD:15M32P00C-50         Md:308/24-3F         DD:15M32P00C-50           Md:308/24-4F         HDC:37M3P00C-50         Md:308/24-3F         HDC:3MSP00C-50         Md:308/24-4F         DD:4M32P00C-50           Md:308/24-4F         HDC:37M3P00C-50         Md:308/24-3F         HDC:3MSP00C-50         Md:308/24-6F         DD:4M32P00C-50           Md:308/24-4F         HDC:37M3P00C-50         Md:308/24-3F         DD:4M32P00C-50         Md:308/24-6F         DD:4M32P00C-50           Md:308/24-4F         HDC:37M3P00S-50         Md:308/24-7F         DD:4M32P00C-50         Md:308/24-7F         DD:4M32P00C-50           Md:308/24-7F         HDC:3MSP00S-50-375.6         Md:308/24-7F         DD:5M38P00C-50-375.6         Md:308/24-7F         DD:5M38P00C-50           Md:308/24-7F         HDC:3MSP00S-50-375.6         Md:308/24-7F         DD:5M38P00C-50         Md:308/24-7F         DD:5M38P00C-50           Md:308/24-7F         HDC:3MSP00S-50-375.6         Md:308/24-7F         DD:5M38P00C-50         Md:308/24-7F							
Mc430824-2P         HDC15M3P005-60         Mc430824-3P         HDC25M3P000-50         Mc430824-3P         DD25M32P005-60           Mc430824-3F         HDC25M3P000-50         Mc430824-43F         HDC25M3P000-50         Mc430824-43F         DD25M32P005-60           Mc430824-4F         HDC25M3P0005-50         Mc430824-43F         HDC25M3P000-50         Mc430824-43F         HDC3M3P005-50           Mc430824-4F         HDC25M3P000-50         Mc430824-43F         HDC3M3P005-50         Mc430824-47F         HDC3M3P005-50           Mc430824-4F         HDC3M3P000-50         Mc430824-47F         HDC3M3P005-50         Mc430824-7F         DD26M32P005-50           Mc430824-47F         HDC3M3P000-50         Mc430824-47F         HDC3M3P005-50         Mc430824-7F         DD56M32P005-50           Mc430824-7F         HDC3M3P000-50,751.0         Mc430824-3F         HDC25M3P000-50,375.1         Mc430824-3F         HDC25M3P000-50,375.1           Mc430824-7F         HDC3M3P000-50,375.10         Mc430824-47F         HDC3M3P000-50,375.1         Mc430824-47F         DD75M32P00-50,375.1           Mc430824-47F         HDC3M3P000-50,375.10         Mc430824-47F         HDC3M3P000-50,375.1         Mc430824-47F         DD75M48902-50,375.1           Mc430824-47F         HDC3M3P000-50,375.10         Mc430824-47F         HDC3M3P000-50,375.1         Mc430824-47F<							
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							
Mc430824-4F         HDC37M3P005-50         Mc430824-37         HDC3MM3P005-50         Mc430824-46P         DD44M32P005-50           Mc430824-5         HDC5MM3P005-50         Mc430824-38         HDC15MM3P005-50.776.5         Mc430824-46P         DD26M32P000-50           Mc430824-5P         HDC5MM3P005-50         Mc430824-38         HDC15MM3P005-50.776.5         Mc430824-770         DD26M32P000-50           Mc430824-7F         HDC3MM3P005-50.776.5         Mc430824-771         DD78M32P000-60           Mc430824-7F         HDC3M3P005-50.776.5         Mc430824-771         DD78M32P000-60           Mc430824-7F         HDC3M3P005-50.776.5         Mc430824-771         DD78M32P000-60           Mc430824-4F         HDC15M3P005-50.776.5         Mc430824-772         DD15M489000-50           Mc430824-4F         HDC15M3P005-50.776.5         Mc430824-772         DD15M489000-50           Mc430824-4F         HDC15M3P005-50.776.5         Mc430824-772         DD15M489000-50           Mc430824-4F         HDC3M3P005-50.776.5         Mc430824-772         DD15M489000-50           Mc430824-4F         HDC3M3P005-50.776.5         Mc430824-772         DD26M488000-50           Mc430824-1F         HDC3M3P005-50.776.5         Mc430824-776         D26M488000-50           Mc430824-1F         HDC3M3P005-50.776.5         Mc430824-							
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		
M24308/24-5P         HDC50M3P005-69         M24308/24-3P         HDC15M3B8005-69-376.50         M24308/24-7P         DDC5M32P000-50           M24308/24-7F         HDCC3M3P000-50-375.10         M24308/24-3P         HDC2SM3B8005-69-376.50         M24308/24-71F         DD7M32P000-50           M24308/24-7F         HDCC3M3P000-50-375.10         M24308/24-9P         HDC2SM3B8005-59-376.50         M24308/24-73P         DD7M32P000-50           M24308/24-8F         HDC15M3P000-50-375.10         M24308/24-40         HDC2SM3B8000-50-376.50         M24308/24-73P         DD15MM88000-50           M24308/24-8P         HDC25M3P005-50-375.10         M24308/24-41F         HDC5M3B8000-50-376.50         M24308/24-77P         DD15MM88000-50           M24308/24-9F         HDC25M3P005-50-375.10         M24308/24-41F         HDC5M3B8000-50-376.30         M24308/24-77P         DD26MM88000-50           M24308/24-10         HDC27M3P005-50-375.10         M24308/24-41F         HDC5M5B8000-50-376.31         M24308/24-77P         DD26MM88000-50           M24308/24-11P         HDC23M3P000-50-375.10         M24308/24-41F         HDC5M5B8000-50-376.3         M24308/24-77P         DD26MM88000-50           M24308/24-11P         HDC23M3P000-50-375.10         M24308/24-41F         HDC3M5B800-50-376.3         M24308/24-77F         DD44M48800-50           M24308/24-11P         HDC23M3P00-50-3	M24308/24-5	HDC50M3P000-50	M24308/24-38	HDC15M5B8000-50-376.5	M24308/24-70	DD62M32P000-50	
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							
M24308/24-7F         HDCSMRP0C-50-375.10         M24308/24-39F         HDC25MR58005-60-375.6         M24308/24-7F         DD78M32P002-50           M24308/24-8F         HDC15MR9005-50-375.10         M24308/24-40         HDC37MR58000-50-376.6         M24308/24-7F         DD15M488000-50           M24308/24-4F         HDC15MR9005-50-375.10         M24308/24-40P         HDC37MR58000-50-376.6         M24308/24-7F         DD15M488000-50           M24308/24-4F         HDC25MR9005-50-375.10         M24308/24-41P         HDC37MR58005-50-376.6         M24308/24-7F         DD26M488000-50           M24308/24-7F         HDC23MR9005-50-375.10         M24308/24-41P         HDC37MR58005-50-376.3         M24308/24-7F         DD26M488000-50           M24308/24-10P         HDC37MR9005-50-375.10         M24308/24-41P         HDC3MR58000-50-376.3         M24308/24-7F         DD26M488000-50           M24308/24-11P         HDC37MR9005-50-375.10         M24308/24-43F         HDC3MR58000-50-376.3         M24308/24-7F         DD26M488000-50           M24308/24-11P         HDC37MR9005-50-375.3         M24308/24-44F         HDC15MR58000-50-376.3         M24308/24-7F         DD26M488000-50           M24308/24-11P         HDC37MR9005-50-375.3         M24308/24-44F         HDC15MR58000-50-376.3         M24308/24-7F         DD26M488000-50           M24308/24-11P         HDC37MR9005-50-							
M24308/24-7P         HDC3M3P005-0375.10         M24308/24-3P         HDC25M3B8005-60-375.50         M24308/24-4P         HDC3M3B8000-50-375.50         M24308/24-4P         HDC3M3B8000-50-375.50         M24308/24-4P         HDC3M3B8000-50-375.50         M24308/24-4P         HDC3M3B8000-50-375.50         M24308/24-4P         HDC3M3B8000-50-375.50         M24308/24-4P         HDC3M3B800-50-375.50         M24308/24-4P         HDC3M3B800-50-375.50         M24308/24-4P         HDC3M3B800-50-375.50         M24308/24-4P         DD23M4B8000-50-375.50           M24308/24-4P         HDC2SM3P005-50-375.10         M24308/24-41P         HDC3M5B8000-50-375.50         M24308/24-7F         DD24M4B8000-50           M24308/24-1P         HDC3M3P005-50-375.10         M24308/24-41P         HDC3M5B8000-50-375.30         M24308/24-7F         DD44M4B8000-50           M24308/24-11P         HDC3M3P005-50-375.10         M24308/24-44P         HDC15M5B8000-50-376.30         M24308/24-7FP         DD24M4B8000-50           M24308/24-11P         HDC5M3P005-50-375.30         M24308/24-44P         HDC15M5B8000-50-376.30         M24308/24-7FP         DD24M4B8000-50           M24308/24-11P         HDC5M3P005-50-375.30         M24308/24-44P         HDC15M5B8000-50-376.30         M24308/24-7FP         DD26M4B8000-50           M24308/24-11P         HDC5M3P005-50-375.30         M24308/24-44P         HDC15M5B8000-50-376.30        M24308							
M24308/24-8         HDC15M8P00C-50-375.10         M24308/24-40         HDC37M8B800C-50-375.5         M24308/24-73         DD15M4B800C-50           M24308/24-9F         HDC15M8P00C5-60-375.10         M24308/24-40F         HDC37M8B800C-50-375.5         M24308/24-77         DD15M4B8000-50           M24308/24-9F         HDC25M8P00C5-60-375.10         M24308/24-41F         HDC5M8B800-50-375.5         M24308/24-7F         DD26M4B800-50           M24308/24-9F         HDC23M8P00C5-60-375.10         M24308/24-41F         HDC5M8B800-50-375.3         M24308/24-7F         DD26M4B8000-50           M24308/24-10F         HDC37M8P00C5-60-375.10         M24308/24-43F         HDC3M8B800-50-376.3         M24308/24-7F         DD26M4B8000-50           M24308/24-11F         HDC3M8P00C5-60-375.3         M24308/24-44F         HDC3M8B800-56-376.3         M24308/24-7F         DD26M4B800-50           M24308/24-11F         HDC5M8P00C5-60-375.3         M24308/24-44F         HDC15M8B800-56-376.3         M24308/24-7F         DD26M4B800-50           M24308/24-11F         HDC5M8P00C5-60-375.3         M24308/24-44F         HDC15M8B800-56-376.3         M24308/24-7F         DD26M4B800-50           M24308/24-11F         HDC5M8P005-50-375.3         M24308/24-44F         HDC15M8B800-56-376.3         M24308/24-17F         DD26M4B800-50           M24308/24-14F         HDC5M8B800-56-376.3							
M24308/24-8F         HDC15M3P00C-50-375.10         M24308/24-40F         HDC27M58800C-50-376.5         M24308/24-73F         DD15M48800C-50           M24308/24-9F         HDC25M3P00C-50-375.10         M24308/24-40F         HDC25M5800C-50-376.5         M24308/24-74F         DD26M48800C-50           M24308/24-9F         HDC25M3P00C-50-375.10         M24308/24-41F         HDC50M58800C-50-376.3         M24308/24-74F         DD26M48800C-50           M24308/24-9F         HDC25M3P00C-50-375.10         M24308/24-43F         HDC5M58800C-50-376.3         M24308/24-75F         DD44M48800C-50           M24308/24-10F         HDC3M3P00C-50-375.10         M24308/24-43F         HDC15M58800C-50-376.3         M24308/24-75F         DD44M48800C-50           M24308/24-11F         HDC3M3P00C-50-375.10         M24308/24-44F         HDC15M58800C-50-376.3         M24308/24-76F         DD62M48800C-50           M24308/24-11F         HDC3M3P00C-50-375.3         M24308/24-44F         HDC15M58800C-50-376.3         M24308/24-77F         DD78M48800C-50           M24308/24-13F         HDC3M3P00C-50-375.3         M24308/24-44F         HDC15M58800C-50-376.3         M24308/24-77F         DD78M48800C-50           M24308/24-13F         HDC3M3P00C-50-375.3         M24308/24-44F         HDC15M58800C-50-376.3         M24308/24-77F         DD78M48800C-50           M24308/24-14F         HDC3M3P0							
M24308/24-8P         HDC15M3P005-60-375.10         M24308/24-4P         HDC25MM3P00C-50-375.10         M24308/24-4P         HDC25MM3P00C-50-375.10         M24308/24-4P         HDC25MM3P00C-50-375.10         M24308/24-4P         HDC25MM3P00C-50-375.10         M24308/24-4P         HDC25MM3P00C-50-375.10         M24308/24-4P         HDC25MM3P00C-50-375.10         M24308/24-4P         HDC2MM5B00C-50-376.3         M24308/24-7F         DD24M4B800C-50           M24308/24-10         HDC37M3P00C-50-375.10         M24308/24-4P         HDC3M5B00C-50-376.3         M24308/24-7F         DD44M4B800C-50           M24308/24-11P         HDC3M3P00C-50-375.10         M24308/24-4P         HDC15M5B00C-50-376.3         M24308/24-7F         DD44M4B800C-50           M24308/24-11P         HDC3M3P00C-50-375.10         M24308/24-4P         HDC15M5B00C-50-376.3         M24308/24-7F         DD62M4B800C-50           M24308/24-11P         HDC3M3P00C-50-375.10         M24308/24-4F         HDC15M5B00C-50-376.3         M24308/24-7F         DD62M4B800C-50           M24308/24-13P         HDC3M3P00C-50-375.3         M24308/24-4F         HDC15M5B00C-50-376.3         M24308/24-7F         DD62M4B800C-50           M24308/24-13P         HDC3M3P00C-50-375.3         M24308/24-4F         HDC15M5B00C-50-376.3         M24308/24-7F         DD74M4B00C-50           M24308/24-14F         HDC15M3P00C-50-375.3         M24308/24-4F							
M24308/24-9         HDC25M3P00-60-375.10         M24308/24-47         HDC25M3P00-50-376.5         M24308/24-74         DD26M488000-50           M24308/24-9F         HDC25M3P005-50-375.10         M24308/24-47         HDC5MM58000-50-376.3         M24308/24-74F         DD26M488000-50           M24308/24-10F         HDC37M3P00C-50-375.10         M24308/24-43         HDC5M588002-50-376.3         M24308/24-75F         DD44M48800-50           M24308/24-10F         HDC37M3P00C-50-375.10         M24308/24-43F         HDC5M588002-50-376.3         M24308/24-75F         DD44M48800-50           M24308/24-11F         HDC5M3P00C-50-375.10         M24308/24-44F         HDC15M588002-50-376.3         M24308/24-76F         DD62M488000-50           M24308/24-11F         HDC5M3P00C-50-375.3         M24308/24-44F         HDC15M588002-50-376.3         M24308/24-77F         DD78M488000-50           M24308/24-13F         HDC3M3P00-50-375.3         M24308/24-44F         HDC25M58800-50-376.3         M24308/24-77F         DD78M488000-50           M24308/24-14F         HDC15M3P00-50-375.3         M24308/24-44F         HDC25M58800-50-376.3         M24308/24-6F         D00001620         M24308/24-6F         D00001620         M24308/24-6F         D00001620         M24308/24-6F         D00001620         M24308/24-6F         D00001620         M24308/24-6F         D00001620         M24308/24-6F							
M24308/24-9P         HDC25M3P005-50-375.10         M24308/24-19P         HDC26M58000-50-376.3         M24308/24-75         DD24M4B8000-50           M24308/24-10P         HDC37M3P006-50-375.11         M24308/24-43P         HDC3M58000-50-376.3         M24308/24-75P         DD44M4B8000-50           M24308/24-10P         HDC37M3P006-50-375.11         M24308/24-44P         HDC5M58000-50-376.3         M24308/24-75P         DD44M4B8000-50           M24308/24-11P         HDC50M3P000-50-375.11         M24308/24-44P         HDC15M58000-50-376.3         M24308/24-76P         DD62M488000-50           M24308/24-11P         HDC50M3P000-50-375.31         M24308/24-44P         HDC15M58000-50-376.3         M24308/24-77F         DD78M488000-50           M24308/24-13P         HDC3M3P000-50-375.31         M24308/24-45P         HDC25M58000-50-376.31         M24308/24-77F         DD78M488000-50           M24308/24-14P         HDC15M3P000-50-375.31         M24308/24-45P         HDC25M58000-50-376.31         M24308/24-17F         DD78M488000-50           M24308/24-14P         HDC15M3P000-50-375.31         M24308/24-46P         HDC37M58800-50-376.31         M24308/24-47F         DD0000720-462.23           M24308/24-15P         HDC25M3P000-50-375.31         M24308/24-47F         DD0000720-462.23           M24308/24-15F         HDC25M3P000-50-375.31         M24308/24-47F							
M24308/24-10         HDC3TM3P00C-50-375.10         M24308/24-43         HDC3M5800C-50-376.31         M24308/24-475         DD44M48000-50           M24308/24-10F         HDC3TM3P00C-50-375.10         M24308/24-447         HDC3M5800C-50-376.31         M24308/24-475F         DD44M48000-50           M24308/24-11F         HDC50M3P005-50-375.10         M24308/24-447         HDC15M58000-50-376.31         M24308/24-476F         DD62M48000-50           M24308/24-11F         HDC50M3P005-50-375.31         M24308/24-44F         HDC15M58000-50-376.31         M24308/24-476F         DD62M48000-50           M24308/24-13F         HDC9M3P000-50-375.31         M24308/24-44F         HDC25M58000-50-376.31         M24308/24-47F         DD78M488000-50           M24308/24-14F         HDC15M3P000-50-375.31         M24308/24-44F         HDC23M58000-50-376.31         M24308/24-47F         DD78M48800-50           M24308/24-14F         HDC15M3P000-50-375.31         M24308/24-47F         HDC3M58000-50-376.31         M24308/24-6F         D00000E20-462.31           M24308/24-14F         HDC15M3P00-50-375.31         M24308/24-47F         HDC5M58000-50-376.31         M24308/24-6F         D00000E20-462.33           M24308/24-14F         HDC25M3P00-50-375.31         M24308/24-47F         HDC5M58000-50-376.31         M24308/24-6F         D00000T20-462.33           M24308/24-15F         HDC	M24308/24-9F	HDC25M3P00C-50-375.10	M24308/24-41F	HDC50M5B800C-50-376.5	M24308/24-74F	DD26M4B800C-50	
M24308/24-10F       HDC3TM3P00C-50-375.10       M24308/24-43F       HDC3M5800/C-50-376.3       M24308/24-75F       DD44M48000C-50         M24308/24-11F       HDC50M3P00C-50-375.10       M24308/24-44F       HDC15M5800C-56-376.3       M24308/24-76       DD62M48000-50         M24308/24-11F       HDC50M3P00C-50-375.10       M24308/24-44F       HDC15M5800C-56-376.3       M24308/24-7F       DD62M4800C-50         M24308/24-11F       HDC50M3P00C-50-375.3       M24308/24-45F       HDC25M5800C-50-376.3       M24308/24-47F       DD62M4800C-50         M24308/24-13F       HDC9M3P00C-50-375.3       M24308/24-45F       HDC25M5800C-50-376.3       M24308/24-47F       DD78M48600C-50         M24308/24-14F       HDC15M3P00C-50-375.3       M24308/24-44F       HDC25M5800C-50-376.3       M24308/24-47F       DD78M48600C-50         M24308/24-14F       HDC15M3P00C-50-375.3       M24308/24-44F       HDC37M5800C-50-376.3       M24308/24-47F       D00000E20-462.23         M24308/24-14F       HDC3M3P00C-50-375.3       M24308/24-47F       HDC5M5800C-50-376.3       M24308/24-17F       D00000E20-462.23         M24308/24-16F       HDC23M3P00C-50-375.3       M24308/24-47F       HDC5M5800C-50-376.3       M24308/24-17F       D00000T20-462.23         M24308/24-16F       HDC23M3P00C-50-375.3       M24308/24-47F       HDC5M5800C-50-376.3       M24308/24-17F<							
M24308/24-10P       HDC37M3P005-50-375.10       M24308/24-43P       HDC3M58000-50-376.3       M24308/24-75P       DD24M488000-50         M24308/24-11F       HDC50M3P000-50-375.10       M24308/24-44F       HDC15M58000-50-376.3       M24308/24-76P       DD62M488000-50         M24308/24-13F       HDC3M3P000-50-375.3       M24308/24-44F       HDC15M588000-50-376.3       M24308/24-77P       DD78M488000-50         M24308/24-13F       HDC3M3P000-50-375.3       M24308/24-44F       HDC25M588000-50-376.3       M24308/24-77P       DD78M488000-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-46F       HDC25M588000-50-376.3       M24308/24-77P       DD78M488000-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-46F       HDC37M588000-50-376.3       M24308/24-77P       DD78M48800-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-46F       HDC37M588000-50-376.3       M24308/24-7F       DD78M48800-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-47F       HDC5M58000-50-376.3       M24308/24-7F       DD78M48800-50-376.3         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-47F       HDC3M58000-50-376.3       M24308/24-7F       D00000120-462.31         M24308/24-15F       HDC37M3P000-50-375.3       M24308/24-47F       HDC3M58000-50-376.8       M24308/26-							
M24308/24-11F       HDC50M3P000-50-375.10       M24308/24-44       HDC15MSB000-50-376.3       M24308/24-76       DDc2M4B8000-50         M24308/24-11F       HDC50M3P000-50-375.3       M24308/24-44F       HDC15MSB000-50-376.3       M24308/24-77F       DD78M4B8000-50         M24308/24-13F       HDC3M3P000-50-375.3       M24308/24-44F       HDC25MSB000-50-376.3       M24308/24-77F       DD78M4B8000-50         M24308/24-13F       HDC3M3P000-50-375.3       M24308/24-45F       HDC25MSB000-50-376.3       M24308/24-77F       DD78M4B8000-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-46F       HDC37M5B800-50-376.3       M24308/24-77F       DD78M4B800-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-47F       HDC37M5B800-50-376.3       M24308/24-77F       DD78M4B800-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-47F       HDC37M5B800-50-376.3       M24308/24-7F       DD700002-0462.23         M24308/24-15F       HDC25M3P000-50-375.3       M24308/24-47F       HDC50M5B800-50-376.3       M24308/24-61       D00000720-462.23         M24308/24-16F       HDC25M3P000-50-375.3       M24308/24-47F       HDC50M5B800-50-376.3       M24308/26-2F       D00000120-462.23         M24308/24-17F       HDC25M3P000-50-375.3       M24308/24-47F       HDC30M5B8000-50-376.8       M24308/26-2F </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
M24308/24-11F         HDC50M3P00C-60-375.10         M24308/24-44F         HDC15M5800C-50-376.3         M24308/24-76F         DDE2M48800C-50           M24308/24-13         HDC5M3P00C-50-375.3         M24308/24-44F         HDC25M58000-50-376.3         M24308/24-77F         DD78M488005-50           M24308/24-13F         HDCSM3P00C-50-375.3         M24308/24-45F         HDC25M58000-50-376.3         M24308/24-77F         DD78M48800C-50           M24308/24-13F         HDC15M3P00C-50-375.3         M24308/24-46F         HDC25M58000-50-376.3         M24308/24-77F         DD78M48800C-50           M24308/24-14F         HDC15M3P000-50-375.3         M24308/24-46F         HDC23M58800C-50-376.3         M24308/26-6F         D00000E20-462.31           M24308/24-14F         HDC15M3P000-50-375.3         M24308/24-47F         HDC25M5800C-50-376.3         M24308/26-1F         D00000120-462.32           M24308/24-15F         HDC25M3P000-50-375.3         M24308/24-47F         HDC50M5800-50-376.3         M24308/26-1F         D00000120-462.32           M24308/24-15F         HDC25M3P000-50-375.3         M24308/24-47F         HDC50M5800-50-376.3         M24308/26-1F         D00000120-462.32           M24308/24-15F         HDC25M3P000-50-375.3         M24308/24-47F         HDC50M5800-50-376.3         M24308/26-2F         D00000170-462.32           M24308/24-15F         HDC37M3P000							
M24308/24-119       HDC50M3P000-50-375.3       M24308/24-24P       HDC15M588000-50-376.3       M24308/24-76P       DD282M488000-50         M24308/24-13F       HDC9M3P000-50-375.3       M24308/24-45F       HDC25M588000-50-376.3       M24308/24-77F       DD78M488000-50         M24308/24-13F       HDC9M3P000-50-375.3       M24308/24-45F       HDC25M58800-50-376.3       M24308/24-77F       DD78M48800-50         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-46F       HDC23M58800-50-376.3       M24308/24-67F       D0000E20         M24308/24-14F       HDC15M3P000-50-375.3       M24308/24-46F       HDC37M58800-50-376.3       M24308/26-6F       D00000E20-462.23         M24308/24-15F       HDC25M3P000-50-375.3       M24308/24-47P       HDC50M58800-50-376.3       M24308/26-1F       D00000720-462.32         M24308/24-15F       HDC25M3P00-50-375.3       M24308/24-49F       HDC3M58800-50-376.3       M24308/26-2F       D00000720-462.33         M24308/24-16F       HDC37M3P000-50-375.3       M24308/24-49F       HDC3M58800-50-376.8       M24308/26-2F       D000007130-462.33         M24308/24-16F       HDC37M3P000-50-375.3       M24308/24-49F       HDC3M58800-50-376.8       M24308/26-2P       D000007130-462.33         M24308/24-16F       HDC37M3P000-50-375.3       M24308/24-49F       HDC3M58800-50-376.8       M24308/26-2P							
M24308/24-13         HDCGM3P000-50-375.3         M24308/24-45         HDC25M58000-50-376.3         M24308/24-77F         DD78M488000-50           M24308/24-13P         HDC9M3P000-50-375.3         M24308/24-45P         HDC25M58800C-50-376.3         M24308/24-77F         DD78M48800C-50           M24308/24-14F         HDC15M3P00C-50-375.3         M24308/24-46F         HDC37M58800C-50-376.3         M24308/24-67         M24308/24-67         D0000E20           M24308/24-14F         HDC15M3P00C-50-375.3         M24308/24-46F         HDC37M58800C-50-376.3         M24308/25-6F         D00000E20-462.31           M24308/24-15F         HDC25M3P00C-50-375.3         M24308/24-47F         HDC50M58800C-50-376.3         M24308/26-1F         D00000120-462.32           M24308/24-15F         HDC25M3P00C-50-375.3         M24308/24-47F         HDC50M58800C-50-376.3         M24308/26-1F         D00000120-462.32           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49F         HDC3M58800C-50-376.8         M24308/26-2F         D00000120-462.32           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49F         HDC3M58800C-50-376.8         M24308/26-2F         D00000120-462.32           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-50F         HDC15M5800C-50-376.8         M24308/26-2F         D00000100-462.7           M24308/24-16F<							
M24308/24-13P         HDCSM38P00S-50-375.3         M24308/24-45P         HDC25M5800S-50-376.3         M24308/24-47P         HDC37M58800C-50-376.3         M24308/24-46P         HDC37M58800C-50-376.3         M24308/24-47P         HDC50M58800-50-376.3         M24308/24-47P         HDC50M58800-50-376.3         M24308/24-47P         HDC50M58800-50-376.3         M24308/24-47P         HDC37M58800-50-376.3         M24308/24-47P         HDC37M58800-50-376.3         M24308/24-47P         HDC50M58800-50-376.3         M24308/24-47P         HDC37M5900-50-376.3         M24308/24-49P         HDC9M58800-50-376.8         M24308/26-2P         D00000T20-462.32           M24308/24-16P         HDC37M3900-50-375.3         M24308/24-49P         HDC9M58800-50-376.8         M24308/26-2P         D00000T30-462.32           M24308/24-16P         HDC50M3900-50-375.3         M24308/24-49P         HDC15M58800-50-376.8         M24308/26-2P         D00000T30-462.32            M24308/24-17P         HDC50M3900-50-375.3         M24308/24-50P         HDC15M58800-50-376.8         M24308/26-50         M24308/26-50            M24308/24-17P         HDC5							
M24308/24-14         HDC15M3P00-50-375.3         M24308/24-46         HDC37M5B800-50-376.3         M24308/24-46         HDC37M5B800-50-376.3         M24308/24-46         HDC37M5B800-50-376.3         M24308/24-47         HDC37M5P00-50-375.3         M24308/24-47         HDC37M5P00-50-375.3         M24308/24-47         HDC37M5P00-50-376.3         M24308/24-49         HDC37M5B800-50-376.8         M24308/26-2F         D00000T20-462.7           M24308/24-16F         HDC37M5P00-50-375.3         M24308/24-50F         HDC15M5B800-50-376.8         M24308/26-2F         D00000T30-462.7         M24308/24-17           M24308/24-17F         HDC50M3P00-50-375.3         M24308/24-50F         HDC15M5B800-50-376.8         M24308/26-2F         D00000T30-462.7           M24308/24-17F         HDC50M3P00-50-375.9         M24308/24-50F         HDC15M5B800-50-376.8         M24308/24-57         FC6020-50						DD78M4B800C-50	
M24308/24-14F         HDC15M3P00C-50-375.3         M24308/24-46P         HDC37M5B800C-50-376.3         M24308/25-6F         D00000E20-462.31           M24308/24-115         HDC25M3P00C-50-375.3         M24308/24-47         HDC50M5B800C-50-376.3         M24308/25-6P         D00000120-462.32           M24308/24-15F         HDC25M3P00C-50-375.3         M24308/24-47F         HDC50M5B800C-50-376.3         M24308/26-1F         D00000120-462.33           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49F         HDC9M5B800C-50-376.8         M24308/26-2F         D00000120-462.7           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49F         HDC9M5B800C-50-376.8         M24308/26-2F         D00000130-462.32           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-49F         HDC9M5B800C-50-376.8         M24308/26-2F         D00000130-462.7           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M24308/26-2F         D00000130-462.7           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M24308/26-2F         D00000130-462.7           M24308/24-17F         HDC50M3P00C-50-375.9         M24308/24-50F         HDC15M5B800C-50-376.8         M39029/63-368         FC6020D-50           M24308/24-19F         HDC9M3P							
M24308/24-14P         HDC15M3P005-50-375.3         M24308/24-47P         HDC3M5B8005-50-376.3         M24308/24-47         HDC3M5B8007-50-376.3         M24308/24-47P         HDC3M5B8007-50-376.3         M24308/24-17P         D00000T20-462.33           M24308/24-15F         HDC23M3P000-50-375.3         M24308/24-47F         HDC3M5B8007-50-376.3         M24308/24-47F         HDC3M5B8007-50-376.3         M24308/24-17P         D00000T20-462.33           M24308/24-16F         HDC3M3P000-50-375.3         M24308/24-49F         HDC9M5B8007-50-376.8         M24308/26-1F         D00000T30-462.32           M24308/24-17F         HDC5M3P007-50-375.3         M24308/24-49F         HDC9M5B8007-50-376.8         M24308/26-2F         D00000T30-462.72           M24308/24-17F         HDC5M3P007-50-375.3         M24308/24-50F         HDC15M5B8007-50-376.8         M24308/26-2F         D00000T30-462.72           M24308/24-17F         HDC5M3P007-50-375.3         M24308/24-50F         HDC15M5B8007-50-376.8         M24308/24-51F         M24308/24-51F         M24308/24-51F         M24308/24-51F         M24308/24-51F         M24308/24-51F         M39029/63-368         FC6022D-50           M24308/24-19F         HDC9M3P007-50-375.9         M24308/24-52F         HDC25M5B8007-50-376.8         M39029/63-368         FC6022D-50           M24308/24-20F         HDC15M3P007-50-375.9         M24308/24-52F							
M24308/24-15         HDC25M3P000-50-375.3         M24308/24-47         HDC50M5B800C-50-376.3         M24308/24-17         D0000720-462.32           M24308/24-15F         HDC25M3P00C-50-375.3         M24308/24-47F         HDC50M5B800C-50-376.3         M24308/24-17F         D0000720-462.32           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-47P         HDC9M5B800C-50-376.8         M24308/26-1F         D00000720-462.32           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49         HDC9M5B800C-50-376.8         M24308/26-2F         D00000730-462.32           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M24308/26-2F         D00000730-462.7           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M39029/57-354         FC8022D-50           M24308/24-17F         HDC9M3P00C-50-375.9         M24308/24-51F         HDC25M5B800C-50-376.8         M39029/63-368         FC6020D-50           M24308/24-19F         HDC9M3P00C-50-375.9         M24308/24-52F         HDC37M5B800C-50-376.8         M39029/63-368         FC6020D-50           M24308/24-20F         HDC15M5B800C-50-376.8         M39029/63-368         FC6020D-50         M39029/63-368         FC6020D-50           M24308/24-20F         HDC5M3P00C-50-375.9							
M24308/24-15F         HDC25M3P00C-50-375.3         M24308/24-47F         HDC50M5B800C-50-376.3         M24308/26-1F         D00000T20-462.33           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-47P         HDC9M5B800C-50-376.3         M24308/26-2F         D00000T30-462.32           M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49F         HDC9M5B800C-50-376.8         M24308/26-2F         D00000T30-462.32           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-49F         HDC9M5B800C-50-376.8         M24308/26-2F         D00000T30-462.32           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M24308/26-2F         D0000T30-462.7           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M39029/57-354         FC8022D-50           M24308/24-17F         HDC3M3P00C-50-375.9         M24308/24-51F         HDC25M5B800C-50-376.8         M39029/64-369         MC6022D-50           M24308/24-19F         HDC3M3P00C-50-375.9         M24308/24-51F         HDC25M5B800C-50-376.8         M39029/64-369         MC6020D-50           M24308/24-20F         HDC15M3P00C-50-375.9         M24308/24-52F         HDC37M5B800C-50-376.8         M85049/48-1-3F         RD52000H00           M24308/24-20F         HDC25M3P00C-50-375.9							
M24308/24-15P         HDC25M3P00S-50-375.3         M24308/24-47P         HDC50M5B800S-50-376.3         M24308/24-16P         D00000T20-462.7           M24308/24-16F         HDC37M3P000-50-375.3         M24308/24-49         HDC9M5B8000-50-376.8         M24308/26-2P         D00000T30-462.33           M24308/24-16F         HDC50M3P000-50-375.3         M24308/24-49P         HDC9M5B8000-50-376.8         M24308/26-2P         D00000T30-462.33           M24308/24-17F         HDC50M3P000-50-375.3         M24308/24-50F         HDC15M5B8000-50-376.8         M39029/57-354         FC8022D-50           M24308/24-17F         HDC50M3P005-50-375.9         M24308/24-51F         HDC25M5B8000-50-376.8         M39029/63-368         FC602D-50           M24308/24-19F         HDC9M3P005-50-375.9         M24308/24-51F         HDC25M5B8000-50-376.8         M39029/63-368         FC602D-50           M24308/24-20F         HDC15M3P000-50-375.9         M24308/24-52F         HDC37M5B8005-50-376.8         M39029/64-369         MC6020D-50           M24308/24-20F         HDC15M3P000-50-375.9         M24308/24-52F         HDC37M5B8005-50-376.8         M85049/48-1-3F         RD25000H00           M24308/24-20F         HDC15M3P000-50-375.9         M24308/24-52F         HDC37M5B8000-50-376.8         M85049/48-1-4F         RD37000H00           M24308/24-20F         HDC15M3P000-50-375.9							
M24308/24-16         HDC37M3P000-50-375.3         M24308/24-49         HDC9M5B8000-50-376.8         M24308/26-22         D00000T30-462.32           M24308/24-16F         HDC37M3P005-50-375.3         M24308/24-49F         HDC9M5B8000-50-376.8         M24308/26-22F         D00000T30-462.33           M24308/24-17F         HDC50M3P005-50-375.3         M24308/24-50F         HDC15M5B8000-50-376.8         M24308/26-27         D00000T30-462.7           M24308/24-17F         HDC50M3P000-50-375.3         M24308/24-50F         HDC15M5B8000-50-376.8         M24308/26-57         M39029/57-354         FC8022D-50           M24308/24-19F         HDC9M3P000-50-375.9         M24308/24-51F         HDC25M5B800-50-376.8         M39029/63-368         FC6020D-50           M24308/24-20F         HDC15M3P00-50-375.9         M24308/24-51F         HDC25M5B800-50-376.8         M39029/63-368         FC6020D-50           M24308/24-20F         HDC15M3P00-50-375.9         M24308/24-52F         HDC37M5B800-50-376.8         M85049/48-1.3F         RD25000H00           M42308/24-20F         HDC15M3P00-50-375.9         M24308/24-52F         HDC37M5B800-50-376.8         M85049/48-1.4F         RD37000H00           M42308/24-21F         HDC25M3P00-50-375.9         M24308/24-52F         HDC37M5B800-50-376.8         M85049/48-1.4F         RD50000H00           M42308/24-22F         HDC25							
M24308/24-16F         HDC37M3P00C-50-375.3         M24308/24-49F         HDC9M5B800C-50-376.8         M24308/26-2F         D0000T30-462.33           M24308/24-10F         HDC37M3P00S-50-375.3         M24308/24-49F         HDC9M5B800S-50-376.8         M24308/26-2P         D0000T30-462.7           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M39029/57-354         FC8022D-50           M24308/24-17F         HDC50M3P00S-50-375.9         M24308/24-50F         HDC15M5B800S-50-376.8         M39029/58-360         MC8022D-50           M24308/24-19F         HDC9M3P00S-50-375.9         M24308/24-51F         HDC25M5B800S-50-376.8         M39029/63-368         FC6020D-50           M24308/24-19F         HDC9M3P00S-50-375.9         M24308/24-51F         HDC25M5B800S-50-376.8         M39029/63-368         FC6020D-50           M24308/24-20F         HDC15M3P00S-50-375.9         M24308/24-52F         HDC37M5B800S-50-376.8         M85049/48-1-3F         RD25000H00           M24308/24-20F         HDC15M3P00S-50-375.9         M24308/24-52F         HDC37M5B800S-50-376.8         M85049/48-1-4F         RD37000H00           M24308/24-21F         HDC25M3P00S-50-375.9         M24308/24-52F         HDC50M5B800S-50-376.7         M85049/48-1-4F         RD50000H00           M24308/24-22F         HDC37M3P00S-50-375.9							
M24308/24-16P         HDC37M3P00S-50-375.3         M24308/24-49P         HDC9M5B800S-50-376.8         M24308/26-2P         D00000T30-462.7           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800C-50-376.8         M39029/57-354         FC8022D-50           M24308/24-17F         HDC50M3P00C-50-375.3         M24308/24-50F         HDC15M5B800S-50-376.8         M39029/53-364         FC8022D-50           M24308/24-19F         HDC9M3P00C-50-375.9         M24308/24-51F         HDC25M5B800C-50-376.8         M39029/63-368         FC6020D-50           M24308/24-20         HDC15M3P005-50-375.9         M24308/24-51F         HDC25M5B800S-50-376.8         M39029/64-369         MC6020D-50           M24308/24-20F         HDC15M3P005-50-375.9         M24308/24-52F         HDC37M5B800S-50-376.8         M85049/48-1-3F         RD25000H00           M24308/24-20F         HDC15M3P005-50-375.9         M24308/24-52F         HDC37M5B800S-50-376.8         M85049/48-1-4F         RD5000H00           M24308/24-21F         HDC25M3P005-50-375.9         M24308/24-52F         HDC37M5B800C-50-376.8         M85049/48-1-4F         RD50000H00           M24308/24-21F         HDC25M3P005-50-375.9         M24308/24-52F         HDC50M5B8000-50-376.8         M85049/48-1-5F         RD50000H00           M24308/24-22F         HDC37M3P005-50-375.9         <							
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							
M24308/24-19         HDC9M3P000-50-375.9         M24308/24-51         HDC2SM5B8000-50-376.8         M39029/63-368         FC6020D-50           M24308/24-19F         HDC9M3P00C-50-375.9         M24308/24-51F         HDC2SM5B800C-50-376.8         M39029/63-368         FC6020D-50           M24308/24-19F         HDC9M3P00C-50-375.9         M24308/24-52F         HDC2SM5B800-50-376.8         M39029/63-368         FC6020D-50           M24308/24-20F         HDC15M3P00-50-375.9         M24308/24-52         HDC37M5B800-50-376.8         M85049/48-1-3F         RD25000H00           M24308/24-20F         HDC15M3P00-50-375.9         M24308/24-52F         HDC37M5B800-50-376.8         M85049/48-1-3F         RD25000H00           M24308/24-21F         HDC25M3P005-50-375.9         M24308/24-52F         HDC50M5B800-50-376.8         M85049/48-1-5F         RD50000H00           M24308/24-21F         HDC25M3P005-50-375.9         M24308/24-52F         HDC50M5B800-50-376.7         M24308/24-55F         HDC9M5B800-50-376.7         M24308/24-55F         HDC9M5B800-50-376.7         M24308/24-22F         HDC37M3P00-50-375.9         M24308/24-55F         HDC9M5B800-50-376.7         M24308/24-22F         HDC37M3P00-50-375.9         M24308/24-55F         HDC9M5B800-50-376.7         M24308/24-22F         HDC37M3P00-50-375.9         M24308/24-55F         HDC9M5B800-50-376.7         M24308/24-23F         HDC50M3P00-50-375							
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	
M24308/24-20F         HDC15M3P00C-50-375.9         M24308/24-52F         HDC37M5B800C-50-376.8         M85049/48-1-4F         RD37000H00           M24308/24-20P         HDC15M3P00C-50-375.9         M24308/24-52P         HDC37M5B8005-50-376.8         M85049/48-1-4F         RD37000H00           M24308/24-21         HDC25M3P000-50-375.9         M24308/24-53F         HDC50M5B8000-50-376.8         M85049/48-1-5F         RD5000H00           M24308/24-21F         HDC25M3P005-50-375.9         M24308/24-53F         HDC50M5B8005-50-376.7         M24308/24-52F         HDC37M5B8005-50-376.7           M24308/24-22F         HDC37M3P005-50-375.9         M24308/24-55F         HDC9M5B8000-50-376.7         HDC37M3P005-50-375.9         M24308/24-55F         HDC9M5B8000-50-376.7           M24308/24-22F         HDC37M3P005-50-375.9         M24308/24-55F         HDC9M5B8000-50-376.7         HDC3M3P005-50-375.9           M24308/24-22F         HDC37M3P005-50-375.9         M24308/24-55F         HDC9M5B8000-50-376.7         HDC3M3P005-50-375.9           M24308/24-23F         HDC50M3P005-50-375.9         M24308/24-56F         HDC15M5B8000-50-376.7         HDC3M3P005-50-376.7           M24308/24-23F         HDC50M3P005-50-376.9         M24308/24-56F         HDC15M5B8000-50-376.7         HDC3M3P00-50-376.7           M24308/24-23F         HDC50M3P005-50-376.6         M24308/24-56F         HD						RD25000H00	
M24308/24-20P         HDC15M3P00S-50-375.9         M24308/24-52P         HDC37M5B800S-50-376.8         M85049/48-1-5F         RD5000H00           M24308/24-21         HDC25M3P00C-50-375.9         M24308/24-53F         HDC50M5B800C-50-376.8         M24308/24-21F         HDC25M3P00C-50-375.9         M24308/24-53F         HDC50M5B800C-50-376.8           M24308/24-21F         HDC25M3P005-50-375.9         M24308/24-53F         HDC50M5B800C-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         M24308/24-25F         HDC3M3P00C-50-376.7           M24308/24-22F         HDC37M3P00C-50-375.9         M24308/24-55F         HDC9M5B800C-50-376.7         M24308/24-56F         HDC15M5B800C-50-376.7           M24308/24-23F         HDC50M3P00C-50-375.9         M24308/24-56F         HDC15M5B800C-50-376.7         M24308/24-56F         HDC15M5B800C-50-376.7           M24308/24-23F         HDC50M3P00C-50-375.9         M24308/24-56F         HDC15M5B800C-50-376.7         M24308/24-56F         HDC15M5B800C-50-376.7           M24308/24-23F         HDC50M3P00C-50-375.9         M24308/24-56F         HDC15M5B800C-50-376.7         M24308/24-56F         HDC15M5B800C-50-376.7           M24308/24-23F         HDC50M3P00C-50-376.6         M24308/24							
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							
IVI24300/24-23F IIレン3IVI3D0000-30-370.0 IVI24300/24-37F ロレン23IVI3D0000-30-370.7	M24308/24-25P	HDC9M5B800S-50-376.6	M24308/24-57P	HDC25M5B800S-50-376.7			
1 I I		I			l		1