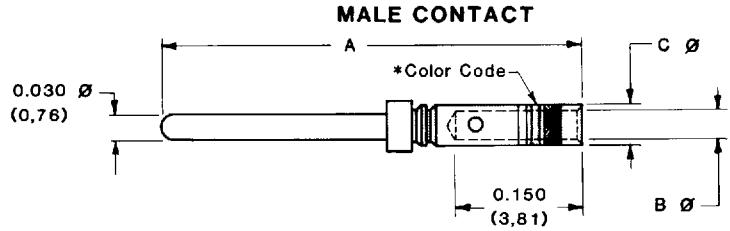
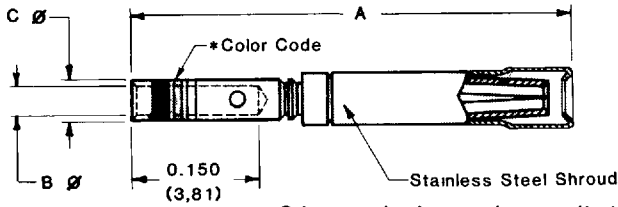


## CRIMP CONTACTS CLOSED CRIMP BARREL

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



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

PART NO.	WIRE SIZE AWG/(mm <sup>2</sup> )	A	B Ø	C Ø
FC8022D	22/24/26/28/30 (0,3/0,25/0,12/0,08/0,05)	0.518 (13,16)	0.035 (0,89)	0.047 (1,19)
*M39029/57-354	22/24/26/28 (0,3/0,25/0,12/0,08)	0.518 (13,16)	0.035 (0,89)	0.047 (1,19)

PART NO.	WIRE SIZE AWG/(mm <sup>2</sup> )	A	B Ø	C Ø
MC8022D	22/24/26/28/30 (0,3/0,25/0,12/0,08/0,05)	0.531 (13,49)	0.035 (0,89)	0.047 (1,19)
*M39029/58-360	22/24/26/28 (0,3/0,25/0,12/0,08)	0.531 (13,49)	0.035 (0,89)	0.047 (1,19)

Material - 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.

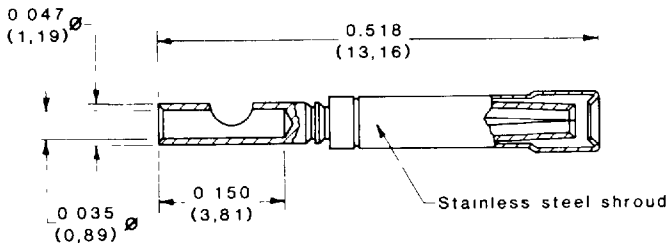
Plating - Gold flash over nickel or  
0.000050 inch (1,25µ) gold over copper for  
military specification contacts.

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

For contact crimp tool information see page 28.

## SOLDER CONTACTS

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

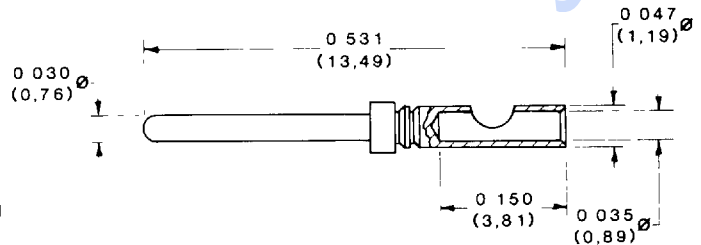


Part number: FS8022D

Material - Phosphor bronze.

Plating - Gold flash over nickel.

### MALE CONTACT



Part number: MS8022D

Material - Brass.

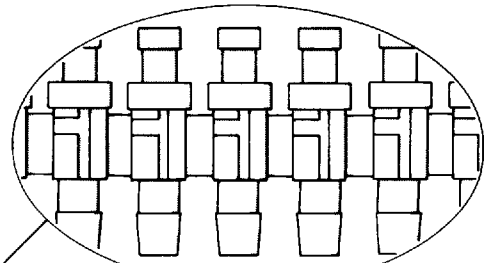
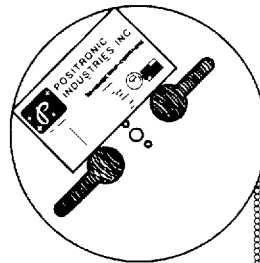
Plating - Gold flash over nickel.

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

## REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed pneumatic crimp tools, catalog part number 9550-1. The same type carrier is used for both male and female contacts.

All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC8022DR for a male contact and FC8022DR for a female contact.



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

Enlarged section of plastic contact carriers



POSITRONIC  
INDUSTRIES, INC.

# Densi-D Series

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

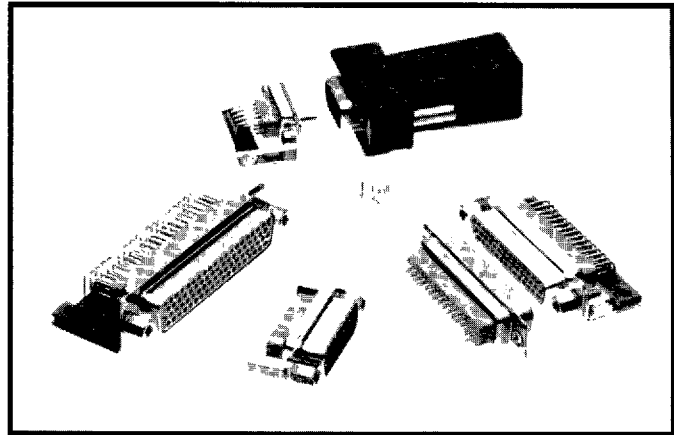
Size 22 Contacts,  
Removable Crimp and  
Printed Board Mount

Military/Industrial  
Quality Connectors

MIL-C-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-C-24308 and MIL-C-39029.

Densi-D Series connectors utilize precision machined contacts with closed barrel crimp terminations and solder terminations for

straight and 90° printed board mount. All female contacts are of closed entry design, featuring a fluted stainless steel shroud.

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

<b>Insulators:</b>	Glass filled polyester per MIL-M-24519, UL 94V-0, blue color.
<b>Contacts:</b>	Male contacts — precision machined high tensile copper alloy. Female contacts — precision machined high tensile copper alloy with stainless steel shroud.
<b>Contact Plating:</b>	Military performance—0.000050 inch (1,25 microns) gold over copper plate. Industrial performance — gold flash over nickel plate.
<b>Shells:</b>	Steel or brass with tin plate; zinc and cadmium plate with dichromate seal, stainless steel, passivated.
<b>Mounting Spacers:</b>	Nylon plastic and brass; zinc plate with dichromate seal.
<b>Push-On Fastener:</b>	Phosphor Bronze or beryllium copper with tin plate.
<b>Vibration Lock Systems:</b>	Slide lock and lock tabs, steel with nickel plate.
<b>Jackscrew Systems:</b>	Steel with zinc plate and dichromate seal, or clear zinc plate.
<b>Hoods:</b>	Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal.

#### ELECTRICAL CHARACTERISTICS:

<b>Contact Current Rating:</b>	5 amperes nominal.
<b>Initial Contact Resistance:</b>	0.005 ohms maximum.
<b>Proof Voltage:</b>	1000 V r.m.s.
<b>Insulator Resistance:</b>	5 G ohms.
<b>Clearance and Creepage Distance (minimum):</b>	0.042 inch (1,06mm).
<b>Working Voltage:</b>	300 V r.m.s.

#### CLIMATIC CHARACTERISTICS:

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

#### MECHANICAL CHARACTERISTICS:

<b>Removable Contacts:</b>	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—closed entry design with stainless steel shroud. 9 lbs. (40 N).
<b>Contact Retention In Insulator:</b>	
<b>Contact Terminations:</b>	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 terminations.
<b>Shells:</b>	Male shells may be dimpled for EMI/ESD ground paths.
<b>Polarization:</b>	Trapezoidally shaped shells and polarized jackscrews.
<b>Mounting To Angle Brackets:</b>	Jackscrews and riveted fasteners with 0.120 inch (3,05mm) clearance hole, and threaded riveted fasteners with 4-40 threads and nylon lock inserts.
<b>Mounting To Printed Board:</b>	Rapid installation push-on fasteners and mounting posts.
<b>Locking Systems:</b>	Jackscrews and vibration locking systems.
<b>Mechanical Operations:</b>	1000 operations minimum per IEC 512-5.



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### ORDERING INFORMATION – CODE NUMBERING SYSTEM

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

STEP	1	2	3	4	5	6	7	8	9
	DD	62	F	4	R7	N	T6	S	

#### STEP 1 Basic Series

DD Series

#### STEP 2

DD Connector Variants

15, 26, 44, 62, 78, 104

#### STEP 3 Connector Gender

M – Male  
F – Female

#### STEP 4 Type of Contacts

- 0 – Ordered Without Contacts
- 1 – Crimp, 22 AWG-30 AWG (0,3mm<sup>2</sup>-0,05mm<sup>2</sup>)
- 2 – Solder, 22 AWG-30AWG (0,3mm<sup>2</sup>-0,05mm<sup>2</sup>)
- 3 – Solder, Straight Printed Board Mount with 0.150 (3,81) Tail Length
- 32 – Solder, Straight Printed Board Mount with 0.300 (7,62) Tail Length
- 4 – Solder, 90° Printed Board Mount with 0.450 (11,43) Contact Extension

#### \*STEP 5 Mounting Style

- 0 – Mounting Hole, 0.120 (3,05) ø
- B3 – Bracket, Mounting, 90° Metal with Cross Bar
- B8 – Bracket, Mounting, 90° Plastic with Cross Bar
- F – Float Mounts, Universal
- P – Threaded Post, Brass, 0.375 (9,53) Length
- P2 – Threaded Post, Nylon, 0.375 (9,53) Length
- R2 – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar
- R6 – Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 (3,05) ø Mounting Hole with Cross Bar
- R7 – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar
- R8 – Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar
- S – Swaged Spacer, 4-40 Threads, 0.375 (9,53) Length
- S2 – Swaged Spacer, 4-40 Threads, 0.125 (3,18) Length
- S5 – Swaged Locknut, 4-40 Threads
- S6 – Swaged Spacer with Push-on Fasteners, 4-40 Threads, 0.375 (9,53) Length
- S7 – Swaged Spacer with Push-on Fastener for use with Ferrite inductor, 4-40 Threads, 0.515 (13,08) Length

#### STEP 9 Special Options

Consult Sales Department

#### STEP 8 Shell Options

- 0 – Zinc Plated with Dichromate Seal
- S – Stainless Steel
- X – Tin Plated
- Z – Tin Plated and Dimpled
- C – Cadmium with Dichromate Seal

#### \*STEP 7 Locking and Polarizing Systems

- 0 – None
- V3 – Lock Tab, connector front panel mounted
- V5 – Lock Tab, connector rear panel mounted
- VL – Lock Lever, used with Hoods only
- T – Fixed Female Jackscrews
- T5 – Fixed Female Jackscrews
- T6 – Fixed Male and Female Polarized Jackscrews
- E – Rotating Male Jackscrews
- E2 – Rotating Male Screw Locks
- E6 – Rotating Male and Female Polarized Jackscrews

#### \*STEP 6 Hoods and Push-On Fasteners

- 0 – None
- J – Hood, Top Opening, Plastic
- L – Hood, Side Opening, Plastic
- Y – Hood, Top Opening, Plastic with Rotating Male Jackscrews
- Y6 – Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews
- Z – Hood, Top or Side Opening, Robust and Extended Height, Composite and Plastic with Rotating Male Jackscrews
- H – Hood, Top Opening, Metal
- G – Hood, EMI/RFI, Metal
- W – Hood, Top or Side Opening, Plastic
- N – Push-on Fastener, for 90° Mounting Brackets
- \*\*F – Ferrite Inductor

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

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