



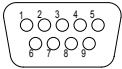
Positronic Industries  
connectpositronic.com

# CONNECTORS

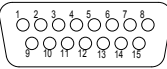
with thermocouple contact options

## STANDARD DENSITY D-SUBMINIATURE SERIES

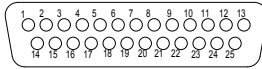
### CONTACT VARIANTS - EVD, HDC, ORD AND RD SERIES



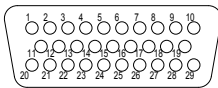
9 contact



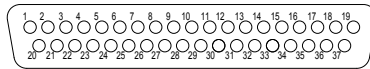
15 contacts



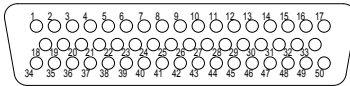
25 contacts



29 contacts



37 contacts



50 contacts

### Standard Density

**D-subminiature:** connectors with 9 to 50 contacts in six package sizes. Signal and thermocouple contacts in a single package. Crimp, PCB mount, and connector saver thermocouple contact options.

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## THERMOCOUPLE CRIMP CONTACTS FOR EVD, ORD AND RD SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC6020DCH	FC6020D2CH	WHITE	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCH	FC6026D2CH		26 / 28 / 30 [0.12 / 0.08 / 0.05]
	ALUMEL (-)	MC6020DAL	FC6020D2AL	GREEN	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DAL	FC6026DAL		26 / 28 / 30 [0.12 / 0.08 / 0.05]
T	COPPER (+)	MC6020DCU	FC6020D2CU	RED	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCU	FC6026D2CU		26 / 28 / 30 [0.12 / 0.08 / 0.05]
	CONSTANTAN (-)	MC6020DCO	FC6020D2CO	YELLOW	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCO	FC6026D2CO		26 / 28 / 30 [0.12 / 0.08 / 0.05]
E	CHROMEL (+)	MC6020DCH	FC6020D2CH	WHITE	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCH	FC6026D2CH		26 / 28 / 30 [0.12 / 0.08 / 0.05]
	CONSTANTAN (-)	MC6020DCO	FC6020D2CO	YELLOW	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCO	FC6026D2CO		26 / 28 / 30 [0.12 / 0.08 / 0.05]

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

### For more information on standard density thermocouple connectors reference:

<http://www.connectpositronic.com/products/57/Thermocouple/>

- **Catalog of Professional, Industrial and Military Performance D-subminiature Connectors**  
HDC (PCB mount) series connectors, see page 27  
RD series connectors, see page 36; ORD series connectors, see page 41
- **Catalog of Environmental D-subminiature Connectors**  
EVD series connectors, see page 35



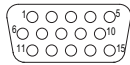
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# CONNECTORS

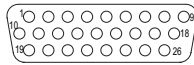
with thermocouple contact options

## HIGH DENSITY D-SUBMINIATURE SERIES

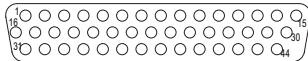
### CONTACT VARIANTS - ODD AND DD SERIES



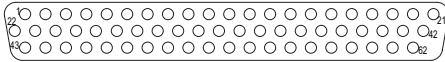
15 contacts



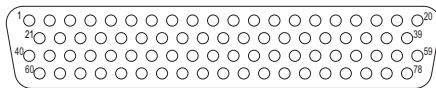
26 contacts



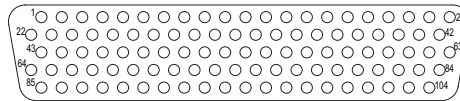
44 contacts



62 contacts



78 contacts



104 contacts

### High Density D-subminiature:

connectors with 15 to 104 contacts in six package sizes. Signal and thermocouple contacts in a single package. Crimp, PCB mount and connector saver thermocouple contact options.

## THERMOCOUPLE CRIMP CONTACTS FOR ODD AND DD SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC8022DCH	FC8022D2CH	WHITE	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	ALUMEL (-)	MC8022DAL	FC8022D2AL	GREEN	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
T	COPPER (+)	MC8022DCU	FC8022D2CU	RED	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	CONSTANTAN (-)	MC8022DCO	FC8022D2CO	YELLOW	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
E	CHROMEL (+)	MC8022DCH	FC8022D2CH	WHITE	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	CONSTANTAN (-)	MC8022DCO	FC8022D2CO	YELLOW	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$

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

### For more information on high density thermocouple connectors reference:

<http://www.connectpositronic.com/products/57/Thermocouple/>

- **Catalog of Professional, Industrial and Military Performance D-subminiature Connectors**  
ODD series connectors, see page 46  
DD series connectors, see page 56



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# CONNECTORS

with thermocouple contact options

## STANDARD DENSITY COMBINATION D-SUBMINIATURE SERIES

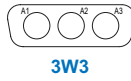
### CONTACT VARIANTS - CBD, CBM & CBC SERIES SIZE 8 POWER & SIZE 20 SIGNAL CONTACTS

#### SHELL SIZE 1

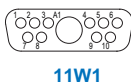
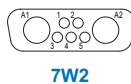


**\*12WK2:**  
Connectors have 1 male and 1 female contacts. Female connector should be loaded with female contact in A2 position.

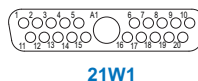
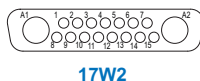
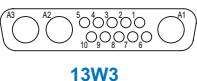
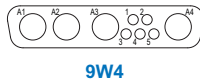
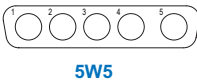
#### SHELL SIZE 2



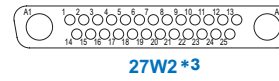
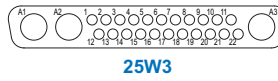
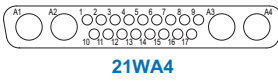
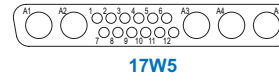
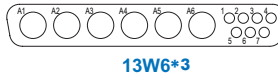
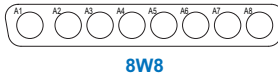
**\*23WK3:**  
Male variant contains 2 male contacts and 1 female contact  
Female variant contains 2 female contacts and 1 male contact



#### SHELL SIZE 3

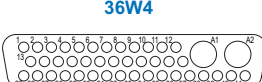
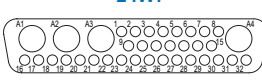
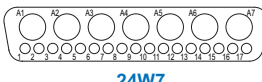


#### SHELL SIZE 4

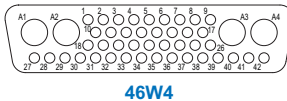


**\*3NOTE:**  
Variant currently available in female gender only.

#### SHELL SIZE 5



#### SHELL SIZE 6



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## THERMOCOUPLE CRIMP CONTACTS FOR CBC SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC6020DCH	FC6020D2CH	WHITE	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCH	FC6026D2CH		26 / 28 / 30 [0.12 / 0.08 / 0.05]
	ALUMEL (-)	MC6020DAL	FC6020D2AL	GREEN	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DAL	FC6026D2AL		26 / 28 / 30 [0.12 / 0.08 / 0.05]
T	COPPER (+)	MC6020DCU	FC6020D2CU	RED	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCU	FC6026D2CU		26 / 28 / 30 [0.12 / 0.08 / 0.05]
	CONSTANTAN (-)	MC6020DCO	FC6020D2CO	YELLOW	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCO	FC6026D2CO		26 / 28 / 30 [0.12 / 0.08 / 0.05]
E	CHROMEL (+)	MC6020DCH	FC6020D2CH	WHITE	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCH	FC6026D2CH		26 / 28 / 30 [0.12 / 0.08 / 0.05]
	CONSTANTAN (-)	MC6020DCO	FC6020D2CO	YELLOW	20 / 22 / 24 [0.5 / 0.3 / 0.25]
		MC6026DCO	FC6026D2CO		26 / 28 / 30 [0.12 / 0.08 / 0.05]

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

**For more information on standard density combination thermocouple connectors reference:**

<http://www.connectpositronic.com/products/57/Thermocouple/>

- **Combo-D D-subminiature Connectors catalog**

CBD/CBM (PCB mount) series connectors, see page 4

CBC series connector, see page 74



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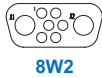
# CONNECTORS

with thermocouple contact options

## HIGH DENSITY COMBINATION D-SUBMINIATURE SERIES

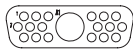
### CONTACT VARIANTS - CBDD AND CBCD SERIES SIZE 8 POWER & SIZE 22 SIGNAL CONTACTS

SHELL  
SIZE 1

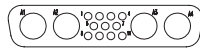


8W2

SHELL  
SIZE 2



19W1



15W4

SHELL  
SIZE 4



45W2

### High Density Combination

D-subminiature - connectors with options for thermocouple, power, signal, high voltage, and shielded contacts in a single package. Crimp and PCB mount thermocouple contact options.

## THERMOCOUPLE CRIMP CONTACTS FOR CBCD SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC8022DCH	FC8022D2CH	WHITE	22 / 24 / 26 [ 0.3 / 0.25 / 0.12]
	ALUMEL (-)	MC8022DAL	FC8022D2AL	GREEN	22 / 24 / 26 [ 0.3 / 0.25 / 0.12]
T	COPPER (+)	MC8022DCU	FC8022D2CU	RED	22 / 24 / 26 [ 0.3 / 0.25 / 0.12]
	CONSTANTAN (-)	MC8022DCO	FC8022D2CO	YELLOW	22 / 24 / 26 [ 0.3 / 0.25 / 0.12]
E	CHROMEL (+)	MC8022DCH	FC8022D2CH	WHITE	22 / 24 / 26 [ 0.3 / 0.25 / 0.12]
	CONSTANTAN (-)	MC8022DCO	FC8022D2CO	YELLOW	22 / 24 / 26 [ 0.3 / 0.25 / 0.12]

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

**For more information on high densitycombination thermocouple connectors reference:**

<http://www.connectpositronic.com/products/57/Thermocouple/>

- **Combo-D D-subminiature Connectors catalog**  
CBDD (PCB mount) series connectors, see page 28  
CBCD series connector, see page 71



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# C O N N E C T O R S

## with thermocouple contact options

### C I R C U L A R S E R I E S

#### CONTACT VARIANTS - FR SERIES

#### SIZE 11 HOUSING



**Three (3)**  
Size 16 Contacts



**Five (5)**  
Size 20 Contacts



**Eight (8)**  
Size 22 Contacts



**Four (4)**  
Size 20 Contacts



**Seven (7)**  
Size 22 Contacts

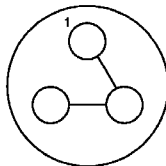


**Nine (9)**  
Size 22 Contacts

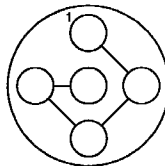
#### Circular -

connectors of lightweight composite construction. Two package sizes with 16 contact variants available. Signal, power and thermocouple contacts in a single package. Crimp and PCB mount thermocouple contact options.

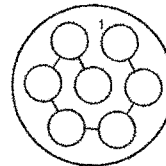
#### SIZE 19 HOUSING



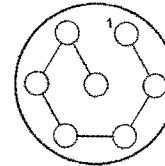
**Three (3)**  
Size 12 Contacts



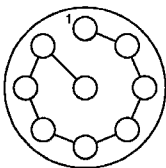
**Five (5)**  
Size 12 Contacts



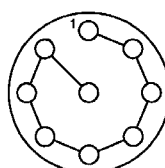
**Seven (7)**  
Size 12 Contacts



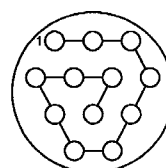
**Seven (7)**  
Size 16 Contacts



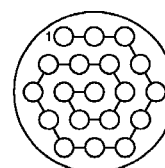
**Nine (9)**  
Size 16 Contacts



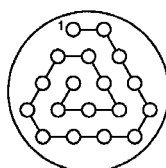
**Nine (9)**  
Size 20 Contacts



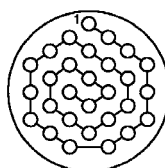
**Twelve (12)**  
Size 20 Contacts



**Nineteen (19)**  
Size 20 Contacts



**Eighteen (18)**  
Size 22 Contacts



**Twenty-nine (29)**  
Size 22 Contacts

**NOTE: Contact Technical Sales for availability of other contact arrangements.**

See crimp thermocouple contact chart on next page.



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# C O N N E C T O R S

with thermocouple contact options

## CIRCULAR CONNECTOR SERIES . . . CONTINUED

### SIZE 20 THERMOCOUPLE CRIMP CONTACTS FOR FR SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC720N3CH	FC720N2CH	WHITE	$\frac{20}{0.5} / \frac{22}{0.3} / \frac{24}{0.25}$
	ALUMEL (-)	MC720N3AL	FC720N2AL	GREEN	$\frac{20}{0.5} / \frac{22}{0.3} / \frac{24}{0.25}$
T	COPPER (+)	MC720N3CU	FC720N2CU	RED	$\frac{20}{0.5} / \frac{22}{0.3} / \frac{24}{0.25}$
	CONSTANTAN (-)	MC720N3CO	FC720N2CO	YELLOW	$\frac{20}{0.5} / \frac{22}{0.3} / \frac{24}{0.25}$
E	CHROMEL (+)	MC720N3CH	FC720N2CH	WHITE	$\frac{20}{0.5} / \frac{22}{0.3} / \frac{24}{0.25}$
	CONSTANTAN (-)	MC720N3CO	FC720N2CO	YELLOW	$\frac{20}{0.5} / \frac{22}{0.3} / \frac{24}{0.25}$

### SIZE 22 THERMOCOUPLE CRIMP CONTACTS FOR FR SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC422NCH	FC422N6CH	WHITE	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	ALUMEL (-)	MC422NAL	FC422N6AL	GREEN	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
T	COPPER (+)	MC422NCU	FC422N6CU	RED	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	CONSTANTAN (-)	MC422NCO	FC422N6CO	YELLOW	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
E	CHROMEL (+)	MC422NCH	FC422N6CH	WHITE	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	CONSTANTAN (-)	MC422NCO	FC422N6CO	YELLOW	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$

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

**For more information on Front Runner thermocouple connectors reference:**

<http://www.connectpositronic.com/products/57/Thermocouple/>

• **Front Runner Circular Connectors catalog**

FR series connectors, see page 4



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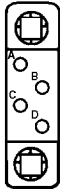
# CONNECTORS

with thermocouple contact options

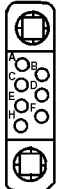
## HIGH DENSITY RECTANGULAR SERIES

### CONTACT VARIANTS - SGMC SERIES

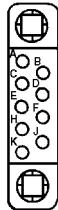
**High Density Rectangular-** high reliability connectors with PosiBand® with eleven variants, 4 - 104. Signal and thermocouple contacts in a single package. Crimp thermocouple contact options. Contact technical sales for information about printed circuit board mounted thermocouple contacts.



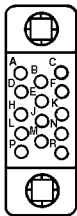
SGMC 4



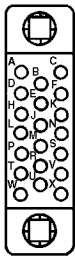
SGMC 7



SGMC 9



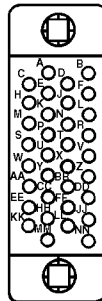
SGMC 14



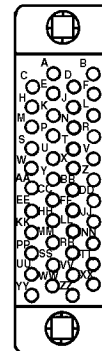
SGMC 20



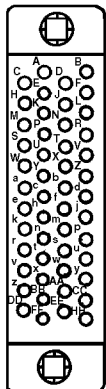
SGMC 26



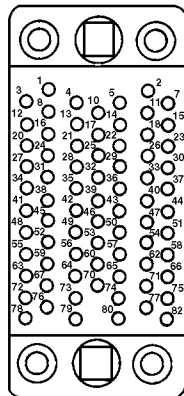
SGMC 34



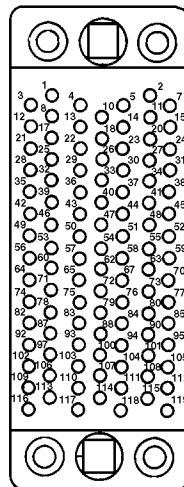
SGMC 44



SGMC 50



SGMC 75



SGMC 104

See crimp thermocouple contact chart on next page.



Positronic Industries  
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# C O N N E C T O R S

with thermocouple contact options

## HIGH DENSITY RECTANGULAR SERIES...CONTINUED

### SIZE 22 THERMOCOUPLE CRIMP CONTACTS FOR SGMC SERIES

TYPE	MATERIAL	MALE PART NUMBER	FEMALE PART NUMBER	COLOR CODE	WIRE SIZE AWG [mm <sup>2</sup> ]
K	CHROMEL (+)	MC422NCH	FC422P2CH	WHITE	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	ALUMEL (-)	MC422NAL	FC422P2AL	GREEN	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
T	COPPER (+)	MC422NCU	FC422P2CU	RED	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	CONSTANTAN (-)	MC422NCO	FC422P2CO	YELLOW	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
E	CHROMEL (+)	MC422NCH	FC422P2CH	WHITE	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$
	CONSTANTAN (-)	MC422NCO	FC422P2CO	YELLOW	$\frac{22}{0.3} / \frac{24}{0.25} / \frac{26}{0.12}$

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

**For more information on high density rectangular thermocouple connectors reference:**

<http://www.connectpositronic.com/products/57/Thermocouple/>

• **High Density Rectangular Connector catalog**

SGMC series connectors, see page 6