

canfield connector

8510 Foxwood Court
Youngstown, Ohio 44514
(330) 758-8299 Fax: (330) 758-8912
www.canfieldconnector.com

SERIES 5000

SOLENOID VALVE CONNECTORS GENERAL PRODUCT OVERVIEW

General Description

The ISO and 8mm Sub-Micro connectors are made according to DIN 43650 / ISO 4400, EN175301-803:2000. The MINI and 9.4mm Sub-Micro connectors are industry standards. All are used as protective enclosures for electrical connection in conjunction with hydraulic and pneumatic solenoid valves. These connectors offer distinct advantages over "hardwired" solenoid valves because of their modular design. Used where rapid installation and service are a must. Better than molded construction when special wire is needed or when using one long wire run.

Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED (COMPLETE DIMENSIONAL INFORMATION IS PROVIDED ON INDIVIDUAL PAGES)

MINI	ISO DIN 43650 Form "A" / ISO 4400, EN175301-803:2000	Sub-Micro (8mm) DIN 43650 Form "C" / ISO 4400, EN175301-803:2000
<p>PG9</p>	<p>PG9 / HT PG9</p>	<p>8mm Strain Relief *Ground spade offset by 0.2mm toward pin 1.</p>
<p>3/8" Conduit</p>	<p>PG11 / HT PG11</p>	<p>8mm 1/2" Conduit *Ground spade offset by 0.2mm toward pin 1.</p>
<p>1/2" Conduit</p>	<p>1/2" Conduit</p>	<p>9.4mm Strain Relief</p>
<p>1/2" Conduit</p>	<p>HT 1/2" Conduit</p>	<p>9.4mm 1/2" Conduit</p>

Ordering Information

Use a prefix of "G" for Individually Bagged

5 □ 0 □ - □ □ □ □ □ 0 0

Orientation
 1 - Ground down
 Other ground orientations available.
 Please consult factory.

Lighting Specification
 0 - Unlighted
 3 - 6 - 48V AC/DC 50/60 Hz
 7 - 48 - 120 VDC
 100 - 240 VAC 50/60 Hz

Gasket
 1 - Nitrile
 2 - Silicone
 3 - Nitrile profile**

Housing Color
 0 - Standard "B"
 1 - Gray "A"

Contacts
 0 - 2+ ground
 1 - 3+ ground*

Connector Types
 01 - MINI strain relief PG9
 02 - MINI 3/8" conduit
 03 - MINI 1/2" conduit
 08 - ISO strain relief PG9
 09 - ISO strain relief PG11
 10 - ISO 1/2" conduit
 11 - ISO HT strain relief PG9†
 12 - ISO HT strain relief PG11†
 13 - ISO HT 1/2" conduit†
 90 - Sub-Micro PG7 DIN interface (8mm)
 91 - Sub-Micro 1/2" conduit interface (8mm)
 95 - Sub-Micro 1/2" conduit (9.4mm)
 99 - Sub-Micro strain relief PG7 (9.4mm)

Each connector kit contains fastening hardware and gasket assembly.

* NOT Available in MINI
 **NOT Available in Sub-Micro

Not all combinations are available. Consult factory for details.

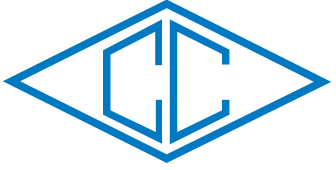
† High Top Housing for easy wiring.

NOTE: When using MAC Valves with 9.4mm Sub-Micro, consult our factory.
 MAC is the registered trademark of MAC Valves, Inc.

Ordering Example:

5100-1010000

Ground down, unlighted, nitrile gasket, MINI strain relief PG9 connector, 2+ ground contacts, standard house



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SERIES 5000

ISO SOLENOID VALVE CONNECTOR

General Description

Canfield Connector's Series 5000 ISO connector connects solenoid valves using the DIN 43650 Form "A" / ISO 4400, EN175301-803:2000 specification. This standard permits industry interchangeability and has been embraced by the solenoid valve industry worldwide. Features include the ability for the user to wire the connector into existing installations or the connector can be prewired at the factory. Wire connections are made inside the connector housing and the wire inlet is either PG9, PG11 or 1/2" conduit. Canfield has added to this line with the HT (High Top) housing. The HT accommodates the user with more room for larger wire diameters. The standard ISO connectors are still available for those applications with space constraints. Maximum current rating is 10 Amps with a maximum conductor size of 14 AWG with an outer jacket not to exceed .410 inches diameter. There are CSA approved versions as well as versions with indicator lights depicting the "on" state. The connectors are NEMA 4 and IP 65 environment rated.

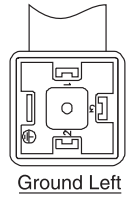
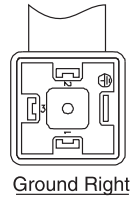
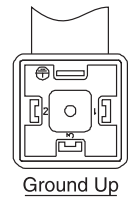
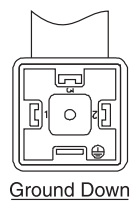


Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

Wiring Information

PG9 / PG11	HT** PG9 / PG11
1/2" Conduit	HT** 1/2" Conduit



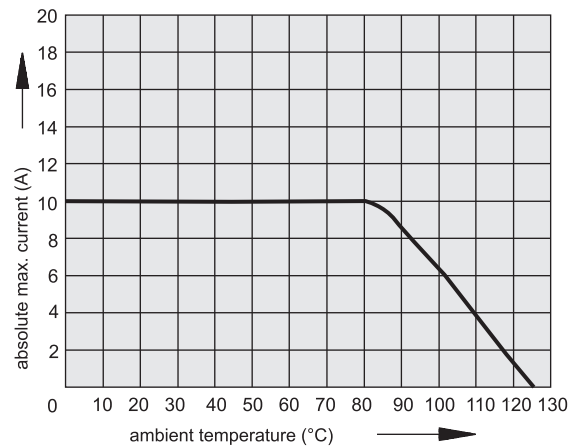
Normal polarity: 1 = (+) Positive, High
 2 = (-) Negative, Neutral
 = Chassis Ground

**HT refers to High Top - Larger connector for larger wire gauge and easy installation.

Technical Data

- The cable outlet can be assembled in 90° increments
- Color: black, gray or translucent for lighted styles
- Cable diameter: PG9 - .236 to .315 inches O.D.
PG11 - .315 to .394 inches O.D.
1/2" Conduit - .410 inches max.
- Cross section of the conductor wire max.: 14 AWG
- Maximum approved current: 10 Amps
- Rated voltage max.: 300 VDC / 250 VAC 50/60 Hz
- No. of contacts: 2+ ground
3+ ground
- Environmental protection: NEMA 4 and IP 65 dust tight and water resistant
- Maximum rated temperatures for gaskets:
Nitrile gasket: -25° to +90°C
Silicone gasket: -40° to +125°C

Derating Curve



Ordering Information

Use a prefix of "G" for Individually Bagged

5 0 - - - - - 0 0

Orientation

1 - Ground down
Other ground orientations available.
Please consult factory.

Lighting Specification

0 - Unlighted
3 - 6 - 48V AC/DC 50/60 Hz
7 - 48 - 120 VDC
100 - 240 VAC 50/60 Hz

Gasket

1 - Nitrile
2 - Silicone
3 - Nitrile profile

Connector Type

08 - ISO strain relief PG9
09 - ISO strain relief PG11
10 - ISO 1/2" conduit
11 - ISO HT strain relief PG9**
12 - ISO HT strain relief PG11**
13 - ISO HT 1/2" conduit

**HT refers to High Top - Larger connector for larger wire gauge and easy installation.

Each connector kit contains fastening hardware and gasket assembly.

Housing Color

0 - Black "B" standard. Translucent if lighted.
1 - Gray "A"

Contacts

0 - 2 + ground
1 - 3 + ground



SERIES 5000 ISO

Can-Pak Part Number	Qty
CP-5100-1080000-025	25
CP-5100-1080000-100	100
CP-5100-1100000-025	25
CP-5100-1100000-100	100
CP-5103-1080000-025	25
CP-5103-1080000-100	100
CP-5107-1080000-025	25
CP-5107-1080000-100	100

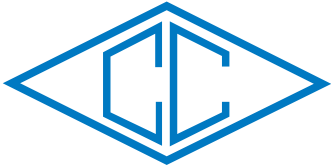
Ordering Example:

5100-1080000

Ground down, nitrile gasket, ISO strain relief PG9,
2+ ground contacts, black house



Consult factory for available versions listed by Canadian Standards Association for use with certified electrical equipment.



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SERIES 5000

**MINI
 SOLENOID VALVE CONNECTOR**

General Description

The Canfield Connector field wireable MINI solenoid valve connector is a high quality interconnection device for use with solenoid valves and pressure switches. The connector features a PG9 strain relief, 3/8" or 1/2" conduit wire pass through, all with screw terminals for wire connections. The MINI accommodates wire from .240" to .410" diameter as a standard with an AWG of 14 maximum. Environment resistance of NEMA 4 / IP 65 along with versions which are CSA approved ensure long trouble free service. Current maximum of 10 Amps and the temperature rating of -40° to +125°C encompasses most applications. The interface is an industry standard.



Dimensional Data

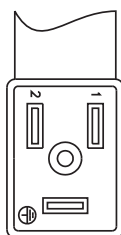
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

Strain Relief	3/8" Conduit	1/2" Conduit

Wiring Information



Ground Up



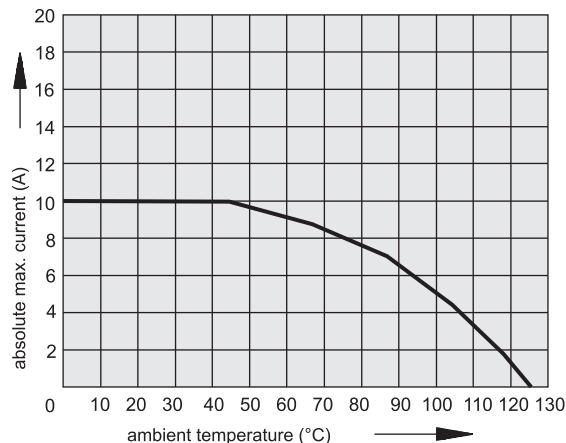
Ground Down

Normal polarity: 1 = (+) Positive, High
 2 = (-) Negative, Neutral
 = Chassis Ground

Technical Data

- The cable outlet can be assembled in 180° increments
- Color: black, gray or translucent for lighted styles
- Cable diameter: PG9 - .236 to .315 inches O.D.
3/8" & 1/2" Conduit - .410 inches max.
- Cross section of the conductor wire max.: 14 AWG
- Rated voltage max.: 300 VDC / 250 VAC 50/60 Hz
- Maximum approved current: 10 Amps
- No. of contacts: 2+ ground
- Environmental protection: NEMA 4 and IP 65 dust tight and water resistant
- Maximum rated temperatures for gaskets:
Nitrile gasket -25° to +90°C
Silicone gasket -40° to +125°C

Derating Curve



5000 MINI

Ordering Information

Use a prefix of "G" for Individually Bagged

5 □ 0 □ - □ □ □ 0 □ 0 0

Orientation
1 - Ground down
Other ground orientations available.
Please consult factory.

Lighting Specification
0 - Unlighted
3 - 6 - 48V AC/DC 50/60 Hz
7 - 48 - 120 VDC
100 - 240 VAC 50/60 Hz

Gasket
1 - Nitrile
2 - Silicone
3 - Nitrile profile

Connector Types
01 - MINI strain relief PG9
02 - MINI 3/8" conduit
03 - MINI 1/2" conduit

Housing Color
0 - Black "B" standard. Translucent if lighted.
1 - Gray "A"

SERIES 5000 MINI	
Can-Pak Part Number	Qty
CP-5100-1010000-025	25
CP-5100-1010000-100	100
CP-5100-1030000-025	25
CP-5100-1030000-100	100
CP-5103-1010000-025	25
CP-5103-1010000-100	100
CP-5107-1010000-025	25
CP-5107-1010000-100	100
CP-5163-1010000-010	10
CP-5163-1010000-050	50
CP-5167-1010000-010	10
CP-5167-1010000-050	50

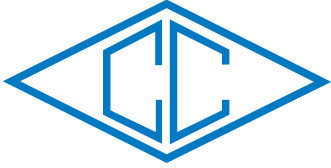
Each connector kit contains fastening hardware and gasket assembly.

Ordering Example:

5100-1010000

Ground down, unlighted, nitrile gasket, MINI strain relief PG9 connector, black house

Consult factory for available versions listed by Canadian Standards Association for use with certified electrical equipment.



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SERIES 5000

**SUB-MICRO
 SOLENOID VALVE CONNECTOR**

General Description

Canfield Connector's Series 5000 Sub-Micro connector is made to connect solenoid valves using the DIN 43650 Form "C", EN175301-803:2000 (8mm pin center) and the industry standard 9.4mm pin center. These standards permit industry interchangeability and have been embraced by the solenoid valve industry worldwide. Features include the ability for the user to wire the connector into existing installations or the connector can be prewired at the factory. Wire connections are made inside the connector housing. The wire inlet is either PG7 or 1/2" conduit. Maximum current rating is 6 amps with a maximum conductor size of 20 gauge with an outer jacket not to exceed .260 inches diameter. There are versions with indicator lights depicting the "on" state. The connectors are NEMA 4 and IP 65 environment rated.

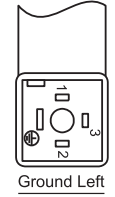
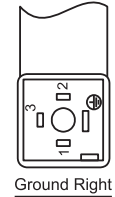
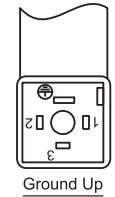
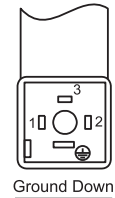


Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

Wiring Information

PG7, 8mm center	PG7, 9.4mm center
1/2" Conduit, 8mm center	1/2" Conduit, 9.4mm center



Normal polarity: 1 = (+) Positive, High
 2 = (-) Negative, Neutral
 = Chassis Ground

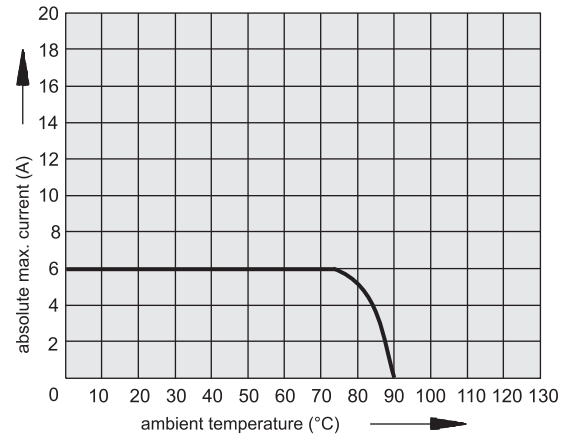
*Ground spade offset by 0.2mm toward pin 1.

Technical Data

- The cable outlet can be assembled in 90° increments
- Color: black, gray or translucent for lighted styles
- Cable diameter: PG7 - .157 - .236 inch O.D.
1/2" Conduit 8mm & 9.4mm - .250 inch max.
- Cross section of the conductor wire max.: 20 AWG
- Rated voltage max.: 250 VAC 50/60 Hz or VDC
- Maximum approved current: 6 Amps
- No. of contacts: 2+ ground,
3+ ground (*NOT* available on lighted units)
- Environmental protection: NEMA 4 and IP 65 dust tight and water resistant
- Maximum rated temperatures for gaskets:
Nitrile gasket: -25° to +90°C
Silicone gasket: -40° to +125° C

NOTE: When using MAC Valves with 9.4mm Sub-Micro, consult our factory.

Derating Curve



Ordering Information

Use a prefix of "G" for Individually Bagged

5 0 - 0 0 0 0 0 0

Orientation

1 - Ground down
Other ground orientations available.
Please consult factory.

Lighting Specification

0 - Unlighted
3 - 6 - 48V AC/DC 50/60 Hz
7 - 48 - 120 VDC
100 - 240 VAC 50/60 Hz

Gasket

1 - Nitrile
2 - Silicone

Connector Type

90 - Sub-Micro strain relief PG7 DIN interface (8mm)
91 - Sub-Micro 1/2" conduit DIN interface (8mm)
95 - Sub-Micro 1/2" conduit (9.4mm)
99 - Sub-Micro strain relief PG7 (9.4mm)

Contacts

0 - 2 +ground
1 - 3 +ground*

Housing Color

0 - Black "B" standard. Translucent if lighted.
1 - Gray "A"



SERIES 5000 SUB-MICRO

Can-Pak Part Number	Qty
CP-5100-1900000-025	25
CP-5100-1900000-100	100
CP-5100-1990000-025	25
CP-5100-1990000-100	100
CP-5103-1900000-025	25
CP-5103-1900000-100	100
CP-5103-1990000-025	25
CP-5103-1990000-100	100
CP-5107-1900000-025	25
CP-5107-1900000-100	100
CP-5107-1990000-025	25
CP-5107-1990000-100	100

*3+ ground *NOT* available in lighted version.

Each connector kit contains screw, washer and gasket assembly.

Ordering Example:

5100-1900000

Ground down, unlighted, nitrile gasket, Sub-Micro strain relief PG7 DIN interface, 2+ ground contacts, black house



Consult factory for available versions listed by Canadian Standards Association for use with certified electrical equipment.