

## canfield connector

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### SERIES 5J

### LIGHTED AND LOAD SUPPRESSED MOLDED MINI, ISO AND SUB-MICRO SOLENOID VALVE CONNECTORS

#### General Description

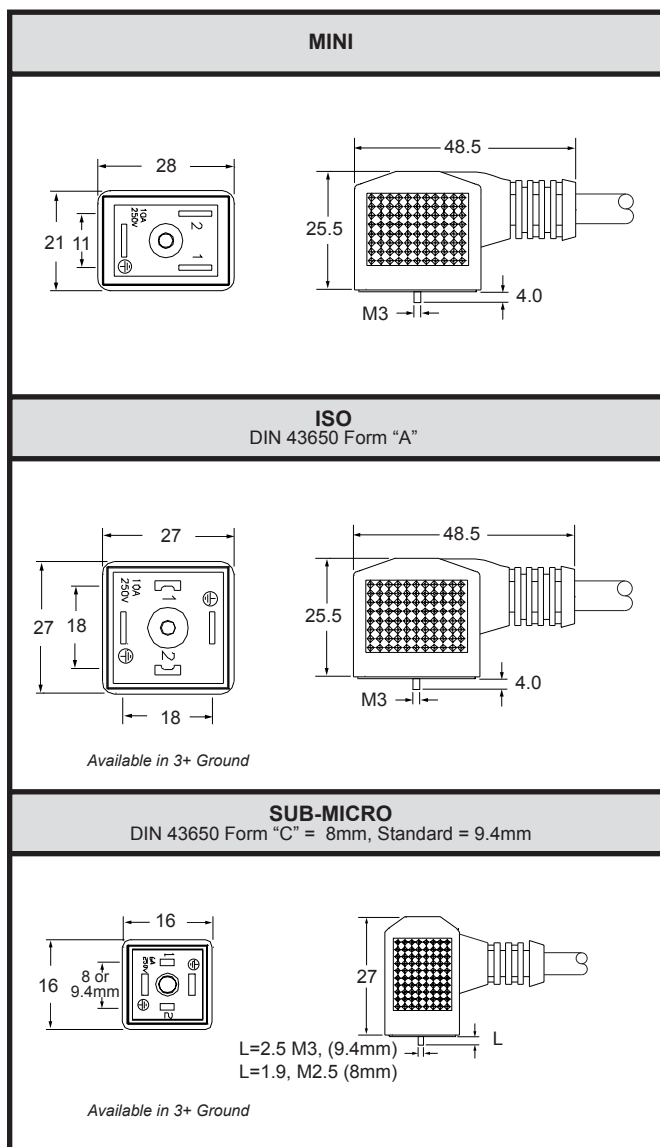
The Canfield Series 5J all-molded DIN solenoid valve connector/gasket/cord assembly offers a completely molded design that is far better for environmental integrity than field wire versions. Made from rugged yet flexible polyurethane, the connector housing boasts high durability factors and application versatility. The low profile "90°" interface/cord configuration allows for installation in many limited space applications. The integrated gasket design boasts an IP67/NEMA 6 rating and makes it impossible to lose the gasket. The 5J and 5F are the only molded valve connectors in the industry that feature a HARD USAGE cord as a standard option in any length required, bi-directional indicator lights, and load suppression (not intended for UL 1449). UL and CSA versions are available as well. Canfield offers any version of the 5J connector with special wires including high flex, media compatible wire, special use wire, high temperature wire on request.



ISO shown above

#### Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED



#### Technical Data

- Cable outlet: Molded construction with wire exiting out perpendicular to the face of the coil
  - Available in no circuit, lighted and load suppressed version for all connectors
  - Cable conductor colors:
    - European color code: Brown, blue, and yellow/green, (with 4<sup>th</sup> conductor version black)
    - US color code: White, black, and green, (with 4<sup>th</sup> conductor version red)
    - Specials on request
  - Cable types: Pressure extruded PVC jacket  
Hard Usage cordage  
"S" type with SJTOW standard PVC jacket (ISO and Mini only)
  - Cross section of conductor wire: 18 Gauge standard (ISO and Mini)  
20 Gauge standard (Sub-Micro)
  - Rated voltage max.: 250V AC 50/60 Hz, 300V DC
  - Rated current max.: 10 Amps (ISO and Mini), 6 Amps (Sub-Micro)
  - Enclosure and molded in gasket materials: Polyurethane
  - Ambient rated temperatures: -25° to 80°C
  - Environment protection: IP 67 and NEMA 6, dust tight and water resistant
  - Available in four sizes:
    - DIN 43650 Form "A" (ISO), EN175301-803:2000
    - DIN Form "C" (Sub-Micro 8mm), EN175301-803:2000
    - Industry standard (Sub-Micro 9.4mm pin spacing)
    - Industry standard (Mini 11mm pin spacing)
  - Pin configurations: For single solenoid valves - 2 connections plus ground – Mini, ISO, Sub-Micro 8mm and Sub-Micro 9.4mm
- For pressure switches, double solenoid valves and other devices, 3 connections plus ground – ISO, Sub-Micro 8mm and 9.4mm
- Note: Slight discoloration may occur to translucent material after prolonged exposure to UV rays.



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



Consult factory for available versions recognized under the Component Program of Underwriters Laboratories, Inc.

## Ordering Information

5 J ☐ ☐ ☐ - ☐ ☐ ☐ - ☐ ☐ ☐ ☐

**Connector Type**  
 3 - 8mm SM\*  
 4 - 9.4mm SM\*  
 5 - MINI\*\*  
 6 - ISO

**Wire Length**  
 6 - 6 ft cord  
 F - 15 ft cord  
 For additional wire lengths, consult factory.

**Contacts**  
 0 - 2+ground down (MINI only)  
 1 - 2+ground up (MINI only)  
 2 - 3+ground down  
 3 - 3+ground up  
 4 - 2+dual ground (ISO/8mm/9.4mm only)  
 Ground left / right available, consult factory.

**Operating Voltage**  
 0 - No light, no suppression\*\*\*  
 2 - 6-24V AC/DC 50/60 Hz  
 5 - 48-120V AC/DC 50/60Hz  
 8 - 208-240V AC 50/60Hz  
 A - 6-24VDC

**Suppression Type**  
 0 - None  
 1 - Diode (DC only)\*\*  
 5 - Metal Oxide Varistor (MOV)\*\*

**Lighting Option**  
 0 - Unlighted  
 1 - Lighted\*\*

**Wire Option**  
 US - U.S.A. wire code / PVC jacket  
 EU - European wire code / PVC jacket  
 HU - Hard Usage / SJTOW jacket (MINI & ISO only)

High flex, shielded and high temperature wire available on request.

**Housing Color**  
 0 - Black (standard)  
   Translucent (if lighted)  
 1 - Gray

**Packaging Code**  
 A - Bulk  
 G - Individual bagged  
 L - Bulk MAC screw  
 N - Individual bagged MAC screw

MAC is the registered trademark of MAC Valves, Inc.

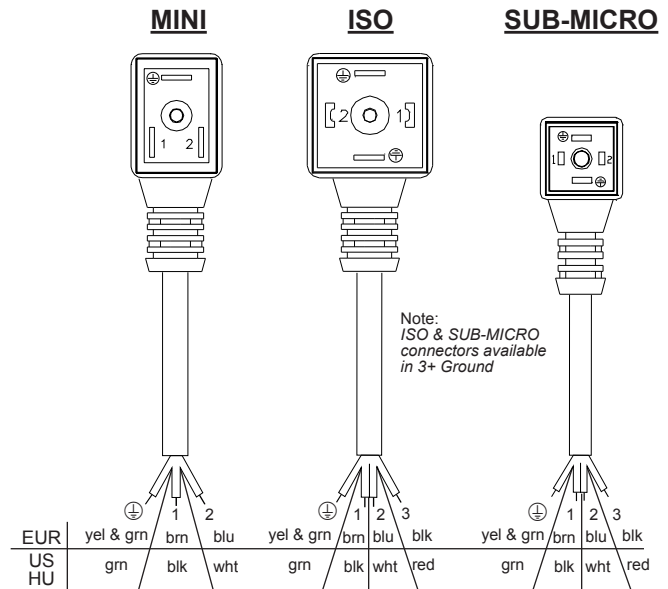
All connectors come standard with integrated gasket.

\* 240 VAC voltage suppression and lighting not available.

\*\* NOT available in 3+ ground.

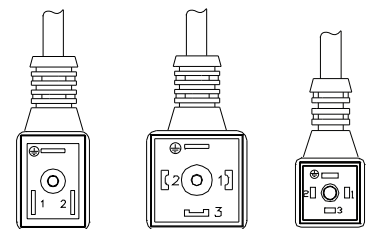
\*\*\* Rated 250V AC 50/60Hz, 300V DC.

## Wiring Information

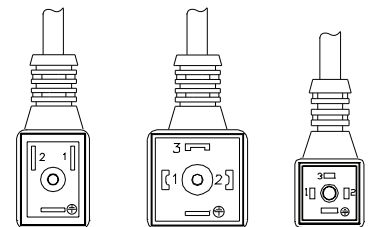


Normal polarity: 1 = (+) Positive, Hot  
 2 = (-) Negative, Neutral  
 ⊕ = Chassis Ground

### Ground Up:



### Ground Down:



For convenience and faster shipping, this series is available in Can-Paks.



### Accessories:

WM-315 ISO/MINI Standard Wire Markers 10X Bag  
 WM-218 Sub-Micro Standard Wire Markers 10X Bag

### Ordering Example:

5J360-251-US0A

8mm SM, 6 ft wire length, 2+ ground, 6-24V AC/DC 50/60 Hz, MOV, lighted, U.S.A. wire code / PVC jacket, standard housing color, bulk w/ Canfield p/n