

## Crimp Pot Cross Section

The Vector connector offers low cost, light weight, environmental sealing with maximum space savings. High terminal density enable harnessing of both power (wire size 14-12 AWG) and signal (wire size 20-16 AWG) terminals within a single housing.

### Secondary Terminal Locking

A single wedge provides secondary lock of all terminals reducing labor associated with wedge insertion. Assembly is fast and easy.

### Positive Mating

The unique trapezoidal shape of the connector housing assures polarization and reliability by preventing incorrect mating or damage caused by mismatching. The dual latch assures reliable mating.

### In-Line Design

An in-line design assures quick and simultaneous connection of terminals as well as versatility through partial loading of contacts when a full complement is not needed.



## Features and Benefits

- Lightweight connector eliminates bulky components from your sensors, motors, and actuators
- Quick and simple assembly with hand-insertable contacts lowers your manufacturing costs
- Interfacial and individual wire seals provide superior sealing characteristics
- Available in signal (13 A) and power (25 A) versions for maximum rating flexibility

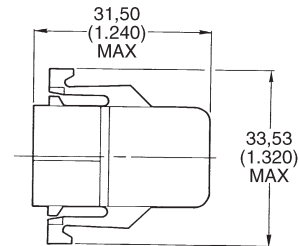
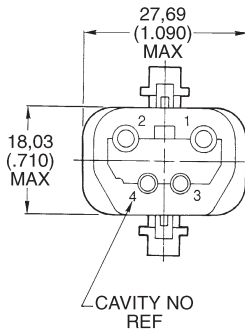
## Product Specifications

Contact Resistance	20mΩ maximum
Insulation Resistance	100MΩ minimum (USCAR)
Current Rating	13 A signal continuous at 150°C all contacts, 2 position 25 A power continuous at 150°C all contacts, 5 position and 10 position only
Dielectric Withstanding Voltage	1000 Vrms AC at sea level
Applicable Cannon Specification	CS-211
Operating Temperature	Gold Contacts: -40°C to +150°C Tin Lead Contacts: -40°C to +105°C
Crimp Contacts	Semi-automatic or hand crimpable with individual wire seals
Wire Size	Signal: 20 - 16 AWG Power: 14 - 12 AWG
Wire Insulation Sealing Range	Signal: 1,29 (.051) to 2,80 (.110) Power: 2,03 (.0780) to 4,21 (.166)
Polarization	Trapezoidal interface
Contact Insertion	No tool required. Suitable for automation.
Contact Extraction	Rear Removable
Contact Retention	25 lbs. Minimum per contact
Wire Strip Length	Signal: 3,81 (.150) to 4,31 (.170) Power: 4,83 (.190) to 5,33 (.210)

## Materials and Finishes

Connector Housing	High temperature thermoplastic
Environmental Seal	High temperature silicone elastomer
Contact Finish	Engaging area: Tin lead over nickel or selective gold optional Crimp area: Tin lead over nickel

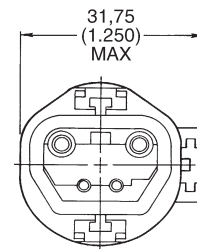
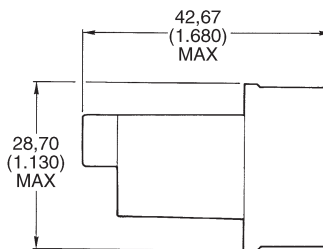
## Plug, Vector In-Line (Cable-to-Cable)



Description	Part Number	Reel Number	Insul. O.D.
Housing Recept., 4 pos.	083-1001-000	-	-
Secondary Lock, Socket Wedge	317-1803-000	-	-
Terminal, Signal	031-8719-121	121668-0202	-
Terminal, Power	031-8717-140	121688-0120	-
Wire Seal, Signal	980-0008-387	-	2,06 - 1,29 (.081 - .051)
Wire Seal, Power	980-0008-392	-	3,60 - 2,81 (.142 - .111)

For additional sizes, contact Cannon.

## Receptacle, Vector In-Line (Cable-to-Cable)



Description	Part Number	Reel Number	Insul. O.D.
Housing Recept., 4 pos.	083-1000-000	-	-
Secondary Lock, Pin Wedge	317-1802-000	-	-
Terminal, Signal	330-8673-104	121668-0122	-
Terminal, Power	330-8672-233	121688-0020	-
Interfacial Seal	273-3038-000	-	-
Wire Seal, Signal	980-0008-388	-	2,080 - 2,03 (.110 - .080)
Wire Seal, Power	980-0008-393	-	4,21 - 3,50 (.166 - .138)

## Additional Part Numbers

Description	Insul. O.D. 2,06 - 1,29 (.081 - .051)	Insul. O.D. 2,42 - 2,26 (.095 - .089)	Insul. O.D. 2,80 - 2,03 (.110 - .080)
Wire Seal, Power	980-0008-389	980-0008-391	980-0008-390

## Crimp Tool

Part Number: 140110-0000

Reliable, Cost effective crimp tooling is available for termination of power and signal contacts.



Dimensions shown in mm  
Specifications and dimensions subject to change

www.ittcannon.com