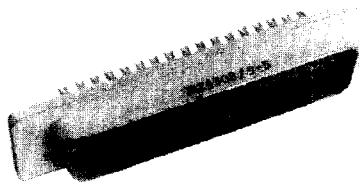


# Hermetic Connectors

## D\*H – D Subminiature MIL-C-24308



D\*H hermetically sealed connectors are designed to meet environmental conditions of extreme pressure differential. These connectors are part of the ITT Cannon

D Subminiature series and are qualified to MIL-C-24308 (see below for cross reference information). The hermetic seal prevents leakage and subsequent accumulation of corrosive moisture behind the connector. There are five basic shell sizes in both standard and thru-bulkhead designs which can accommodate from 9 to 50 contacts. Polarization is achieved by the keystone shape of the shell, a feature of all connectors within the D Subminiature series.

Locking devices are available for all shell sizes. Size 20 pin contacts are standard and have a current rating of 5 amps.† Eyelet, solder pot, and feed-thru contact terminations are available and can accommodate stranded wire up to #20 AWG. Operating temperatures range from –54°C to 125°C (–65°F to 257°F).

Your inquiries are invited regarding custom brazed component variations and special modifications.

†Military rating of #20 contacts or wires is 1.5 amps average, and 7.5 amps maximum. See explanation below.

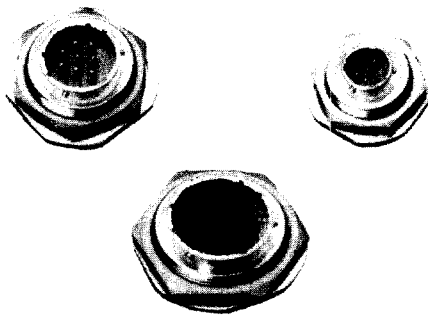
### Cross Reference

Military Part No.	ITT Cannon Part No.
M24308/9-1	DEH9P002
M24308/9-2	DAH15P002
M24308/9-3	DBH25P002
M24308/9-4	DCH37P002
M24308/9-5	DDH50P002
M24308/9-6	DEH9P001
M24308/9-7	DAH15P001

Military Part No.	ITT Cannon Part No.
M24308/9-8	DBH25P001
M24308/9-9	DCH37P001
M24308/9-10	DDH50P001
M24308/9-11	DEH9P202
M24308/9-12	DAH15P202
M24308/9-13	DBH25P202
M24308/9-14	DCH37P202

Military Part No.	ITT Cannon Part No.
M24308/9-15	DDH50P202
M24308/9-16	DEH9P201
M24308/9-17	DAH15P201
M24308/9-18	DBH25P201
M24308/9-19	DCH37P201
M24308/9-20	DDH50P201

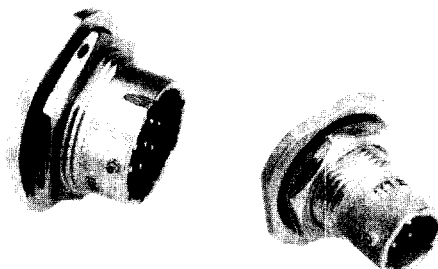
## KJLY, KJY, KJAY – MIL-C-38999 Series I, II, III



Cannon's KJLY/KJY/KJAY miniature circular connectors are hermetically sealed and designed to meet the critical performance and design requirements of MIL-C-38999 (leakage is less than 0.01 micron ft<sup>3</sup>/hour). Engineered for high density circuitry capabilities, these connectors are designed to operate at temperatures ranging from –85°F to +392°F (–65°C to +200°C); solder mounts 302°F (150°C). They are

readily adaptable to both commercial and space age requirements where size, weight, scoop proof/low-profile design and high reliability are key factors. KJLY/KJY/KJAY connectors are offered in nine shell sizes. A total of 53 contact arrangements are available that will accommodate from 3 to 128 contacts using AWG wire sizes 16 through 28. Contacts are of nickel/iron alloy with gold plated finish.

## KPTH/PVA – Miniature Circular MIL-C-26482



ITT Cannon hermetically-sealed KPTH and PVA (MIL-C-26482, Series I and II) connectors are designed for those applications and environments that require delicate mechanisms to be protected from variations in atmospheric pressure (leakage is less than 0.01 micron ft<sup>3</sup>/hr).

The receptacles are available with pin contacts only and in three shell styles; box mounting KPT02H, solder mounting KPT01H, and jam nut KPT07H for Series I; box

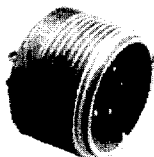
mounting PVA0, solder mounting PVA3, and jam nut PVA7 for Series II. Contact arrangements are tooled in a full leak-free compression glass web.

In addition to the two basic series, connectors for special applications are also offered, including RFI filtering (with low-pass integral filter pin contact) and twist-on, pull-off couplers for MIL-C-26482 connectors.

# Hermetic Connectors

## GS – Standard Circular MIL-C-5015

**GS02-00**  
Flangeless Receptacle



ITT Cannon hermetically sealed GS connectors are designed for applications where a vacuum, inert gas, or a constant or controlled pressure is required to eliminate adverse effects created by atmospheric changes.

GS connectors are hermetically sealed with compression glass to prevent air leakage in excess of  $1 \times 10^{-5}$  standard cubic centimeters per second at 1 atmosphere. Standard hermetic receptacles are

**GS02-11**  
Square Flange Receptacle



available with either solder pot or eyelet contacts. Tube-type contacts for special solid wire feedthru applications (thermocouple) are also available.

The standard material for shells and contacts is steel with tin over cadmium finish on GS02/GS06 connectors. Other materials and finishes can be supplied to meet any specific application.

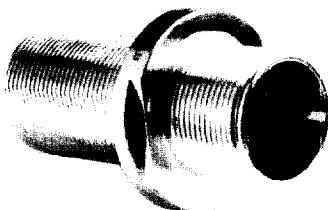
**GS02-25**  
Circular Flange Receptacle



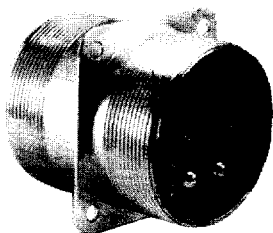
GS connectors are manufactured to ITT Cannon specifications and meet the Instrument Service Voltage Rating of MIL-C-5015. Connectors with higher voltage ratings are also available upon request. Salt spray, shock and vibration requirements, and mating dimensions all approximate the requirements of MIL-C-5015 and can be contractually approved for military applications.

## BFH/TBFH

**TBFH-100/TBFH-200**



**TBFH-110**



The BFH is a hermetically sealed version of the BFR bulkhead fitting.

The TBFH-100 is a jam nut-mounted, thru-bulkhead receptacle for panel thicknesses of .187" thru .312". Sealing against the bulkhead is accomplished by an O ring seal.

The TBFH-200 is similar to the TBFH-100 with a longer overall length for panel thicknesses of .375" thru .750".

The TBFH-110 is the hermetically sealed version of the TBF thru-bulkhead receptacle. It is flange mounted and mates with 3106, 3107 and 3108

plugs. Contacts are sealed to achieve hermeticity preventing air leakage in excess of one micron cubic foot per hour at a pressure differential of one atmosphere. Receptacles with leakage rate of 0.01 micron cubic foot per hour, and lower, are also available.

Contacts and shells are steel. Standard finish is clear chromate over cadmium. Other finishes are available for high temperature and special applications.