

Oxford Instruments Mercury iTC sensor/heater to Variox stick sensor

See par. 5.4.2, p. 75 of Mercury iTC manual – Ge/C carbon resistor connection.

Female cable plug wiring at Variox-stick sensor

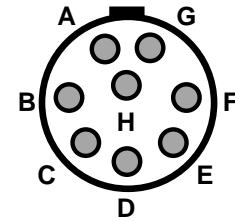
8-pin Mini-circular connector MS 3116 F12-8S

Male cable plug wiring at Mercury ITC

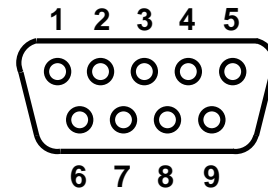
9-pin D-sub connector DEM-9P

Variox (8-pin MIL) Mercury (9-way D-sub)

A	3	V+
B	4	I+
C	1	V-
D	5	I-
E		
F		
G	6	Heater +
H	7	Heater -



Female: MIL Connector view



Male: DE9 Connector view

Selection and ordering information for MIL and D-sub connectors

Generic Mini-circular connector MS 3116 F12-8S

MIL-DTL-26482 is a United States Military Standard (MS), which covers heavy-duty, miniature circular electrical connectors. The 26482 series is equipped with space-efficient bayonet-lock connectors. DTL stands for Defense Detail Spec. Classes E, F, J, and P are used in environment-resisting applications with an operating temperature range of -55 to +125°C

MS-DTL: Military standard
Shell Style: 3116 - Straight plug (KPT)
Class: F - Grommet seal with strain relief (MS specification)
Insert Arrang 12-08
No of pins: 8 (A to H)
Contact type: S - socket, P - pin

Original connector: ITT Cannon 1347 7824514 JMS 3116 F12S-8S

Generic D-sub connector DEM-9P

D = D Subminiature connector
E = Shell size: E = 9 contacts, A = 15, B = 25
M = Class of insulator: M = One-piece insulator (commercial)
9 = Number of contacts (15 in case of high-density layout)
P = Type of contact: P - Pin, S - Socket

See also: <https://octopart.com/electronic-parts/connectors/circular-connectors>
<https://pinoutguide.com>
<https://www.connectorworld.com.au/ms3116f12-8s>