

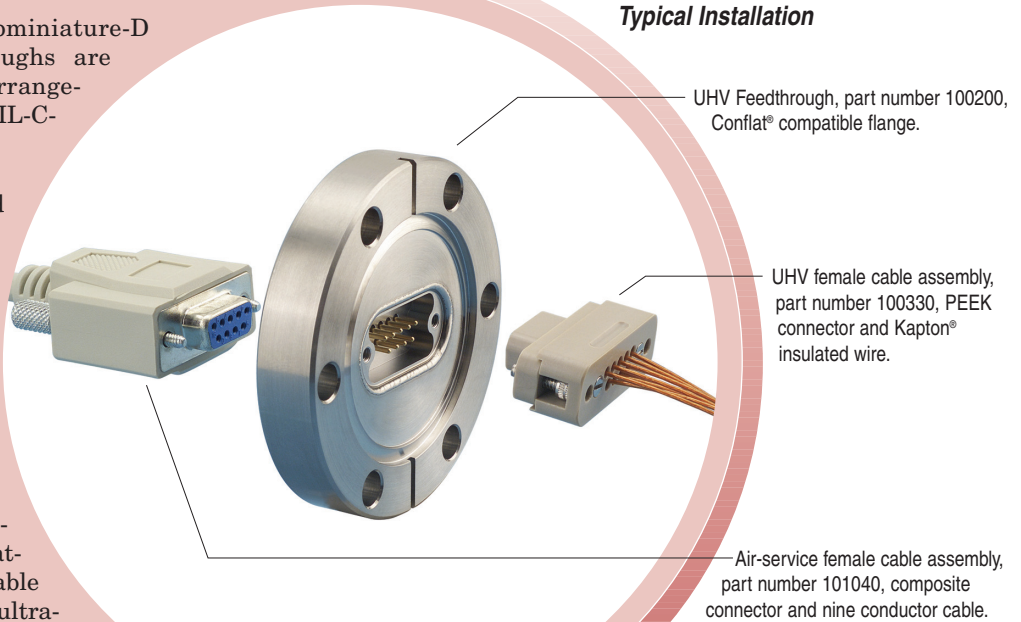
Multipin hermetic Subminiature-D instrumentation feedthroughs are constructed with pin arrangements designed to meet MIL-C-24308 specifications.

9, 15, 25 or 50 gold plated pins are in a straight through pin-to-pin design and are hermetically sealed and electrically insulated in a stainless steel shell using the latest in glass-ceramic bonding technology.

Ultrahigh vacuum cable assemblies with PEEK connectors and Kapton® insulated ribbon cables are available to meet the demands of ultrahigh vacuum environments.

Vacuum side cable assemblies, individual connectors and other accessories begin on page 12.

Subminiature-D multipin assemblies with up to 250 pin configurations are frequently fabricated. For unique requirements, flanges with over 1,000 pins have been engineered and fabricated.



Typical Installation

UHV Feedthrough, part number 100200, Conflat® compatible flange.

UHV female cable assembly, part number 100330, PEEK connector and Kapton® insulated wire.

Air-service female cable assembly, part number 101040, composite connector and nine conductor cable.

Note: Connectors and cables are not included with feedthrough and must be purchased separately.

Features

- 9 to 100 pin standard configurations
- High temperature rated to 250°C
- UHV compatible construction
- Conflat® compatible flange mounts
- ISO compatible flange mounts
- Kapton® insulated vacuum cables
- PEEK connector with locking screws
- Air side connectors available

Specifications Notes

- Electrical ratings are maximum test values. Feedthroughs are intended for instrumentation applications carrying low level signal voltages and currents.
- PEEK is a polyetheretherketone thermoplastic.
- DAP is a glass-filled dyaithilate.
- Overall assembly ratings must be adjusted to that of the lowest rated component.
All dimensions are in inches unless specified otherwise.

Specifications

Voltage¹	500VDC maximum
Current	5A maximum at 20°C
Material	
Shell	SST
Pins	Ni-Fe alloy, Au-plt
Seal and Insulation	Glass-Ceramic
Connector, Air	Composite
Connector, Vacuum, UHV ²	PEEK
Connector, Vacuum, HV ³	DAP / SS

Vacuum Range

UHV, Ultrahigh vacuum	1x10 ⁻¹⁰ Torr
HV, High vacuum	1x10 ⁻⁸ Torr

Temperature Range⁴

Feedthrough	250°C
Flange, CF Style	450°C
Flange, ISO Style	150°C
Connector, Air	80°C
Connector, Vacuum, PEEK	250°C
Connector, Vacuum, DAP	125°C
Thermal gradient	25°C / minute maximum