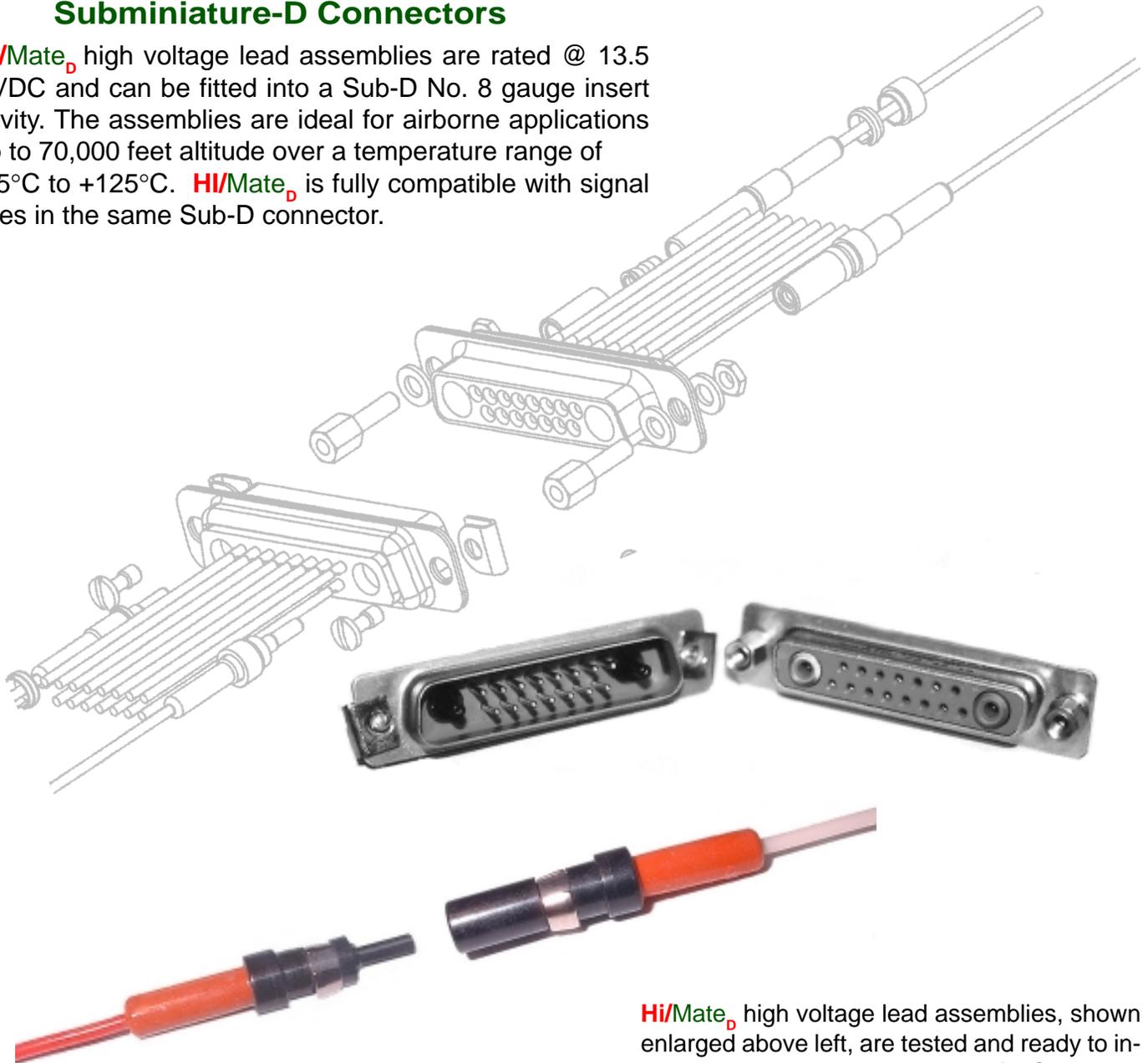




Now!

A High Voltage Capability for Subminiature-D Connectors

Hi/Mate_D high voltage lead assemblies are rated @ 13.5 KVDC and can be fitted into a Sub-D No. 8 gauge insert cavity. The assemblies are ideal for airborne applications up to 70,000 feet altitude over a temperature range of -55°C to +125°C. **Hi/Mate_D** is fully compatible with signal lines in the same Sub-D connector.



Hi/Mate_D high voltage lead assemblies, shown enlarged above left, are tested and ready to install into the No. 8 gauge cavity of a Subminiature-D connector.

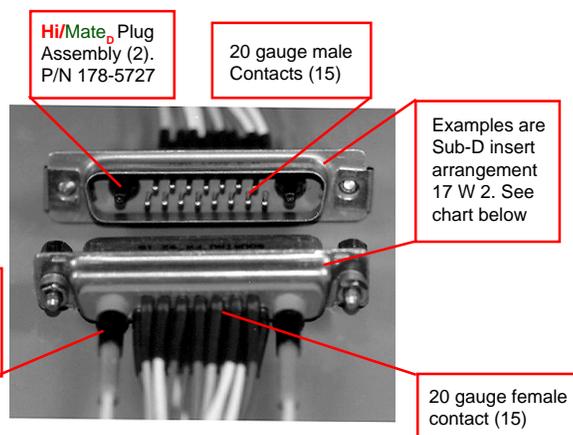
These lead assemblies are, in actuality, high voltage connectors and do not rely on the dielectric strength of the Sub-D insulator. The insert serves only to hold and retain the **Hi/Mate_D** lead assembly. No adhesives, potting or bonding are required.



Hi/Mate_D high voltage lead assemblies convert the No. 8 gauge insert cavities of a Positronic CBD series Subminiature-D connector to a high voltage line rated at 13.5 KVDC.

- Each **Hi/Mate_D** lead assembly is tested @16 KVDC at a simulated altitude of 70,000 feet. When mated, each assembly is rated @ 13.5 KVDC over a temperature range of -55°C to +125°C at altitudes up to 70,000 feet.
- Complete cable assemblies with **Hi/Mate_D** high voltage lead assemblies installed into Positronic series CBD Subminiature-D connectors, are available from Reynolds Industries as fully tested units.
- **Hi/Mate_D** requires no potting or adhesives and is easily removed and replaced.
- **Hi/Mate_D** operates in electrical isolation from other lines in a Subminiature-D connector. This provides compatibility between **Hi/Mate_D** and signal lines.

A No. 8 gauge cavity in the insert arrangements shown below, can be converted to a 13.5 KVDC high voltage circuit simply by installing a Sub-D **Hi/Mate_D** lead assembly into the appropriate male or female cavity.



Note 1:

1. Shell drawings are not to scale
2. Care must be taken to observe Male/Female gender of both the **Hi/Mate_D** lead assembly and the Sub-D Shell/Insert arrangement

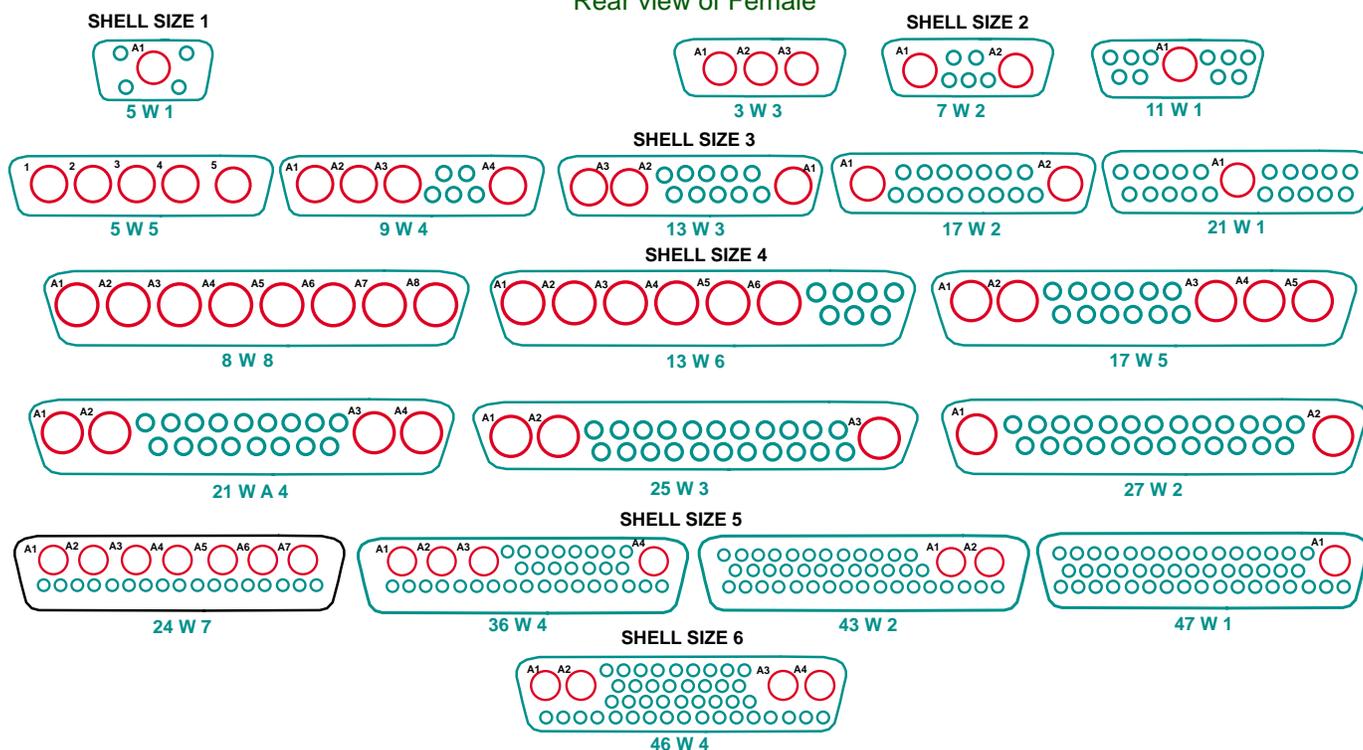
To view detail shell dimensions*

*Courtesy of Positronic Industries

Positronic CBD series Subminiature-D Insert Arrangements

Face view of Male
Rear view of Female

- No. 8 Gauge Insert Cavity for **Hi/Mate_D** installation
- Size 20 fixed contacts



Ordering Hi/Mate_D High Voltage Lead Assemblies For Sub-D Connectors



Hi/Mate_D high voltage lead assemblies can be ordered in 5 configurations :

1. A single ended plug assembly
2. A single ended receptacle assembly
3. A hybrid double ended assembly. (plug on one end; receptacle on the other)
4. A double ended plug assembly
5. A double ended receptacle assembly

Available colors

Standard color (will be supplied unless otherwise specified): NATURAL

Optional colors:

BLACK • BROWN • BLUE • GREEN • ORANGE • RED • VIOLET • WHITE • YELLOW

P/N 178-5727

Single Ended Plug Assembly

When ordering specify length and wire color
Use 'F' for feet; 'N' for inches
Example: P/N 178-5727-6F-9N-RED



Note: Plug Assembly can only be installed into a Sub-D **male** insert

P/N 178-5728

Single Ended Receptacle Assembly

When ordering specify length and wire color
Use 'F' for feet; 'N' for inches
Example: P/N 178-5728-6F-9N-RED



Note: Receptacle Assembly can only be installed into a Sub-D **female** insert

P/N 178-5729

Double Ended Plug/Receptacle Assembly

When ordering specify length and wire color
Use 'F' for feet; 'N' for inches
Example: P/N 178-5729-6F-9N-RED



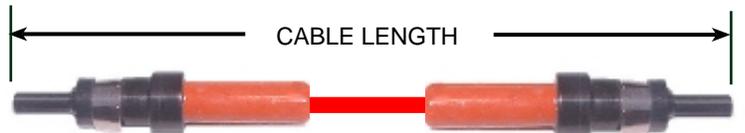
Note: Plug Assembly can only be installed into a Sub-D **male** insert

Note: Receptacle Assembly can only be installed into a Sub-D **female** insert

P/N 178-5740

Double Ended Plug Assembly

When ordering specify length and wire color
Use 'F' for feet; 'N' for inches
Example: P/N 178-5740-6F-9N-RED



Note: Plug Assemblies can only be installed into a Sub-D **male** inserts

P/N 178-5741

Double Ended Receptacle Assembly

When ordering specify length and wire color
Use 'F' for feet; 'N' for inches
Example: P/N 178-5741-6F-9N-RED



Note: Receptacle Assemblies can only be installed into a Sub-D **female** insert

REYNOLDS
INDUSTRIES INCORPORATED
Connector Products Division

5005 McConnell Avenue

Los Angeles, California 90066-6734

(310) 823-5491 • FAX: (310) 822-8046

Website: www.reynoldsindustries.com

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