HermAx® is Axon’s range of hermetic Micro-D connectors. These are often used as pressure or vacuum feedthrough connectors, but can also be used as barriers against moisture and contaminants even without a pressure difference.

**Main Characteristics**
- High hermeticity: glass-ceramic to metal seal
- High conductivity contacts: up to 3A per contact
- Laser weldable or o-ring mount
- ITAR free
- RoHS compliant

**Hermetic Connectors**
Hermetic connectors allow electrical connection across both sides of a panel that must otherwise be fully sealed against moisture or even gases. They are typically used where a panel separates two different environments or when an enclosure needs to be isolated from the surrounding area. The hermetic connector therefore acts as a pressure or vacuum seal or as an environmental protection for sensitive equipment.

HermAx® comes in different configurations to suit a wide range of applications.

**Waterproof Encapsulant**
- MIL-STD-883 A4
- HERMAX®

**Hermetic Encapsulant**
- -55/+125
- -30/+125
- -55/+220

**Contact Material**
- Copper Alloy
- Stainless Steel

**Maximum Current Rating (A)**
- 3
- 1

**Shell Material**
- Aluminium Stainess Steel
- Titanium
- ALUMINIUM

**Mounting Method**
- O-Ring
- Laser Welding

**GLASS TO METAL SEAL**
- MIL-STD-83513

**HERMAX®**
- < 1.38\(^{-10}\)
- < 1.38\(^{-10}\)
- < 1.38\(^{-10}\)
- < 1.38\(^{-10}\)

**HERMAX® Glass-Ceramic Technology**
HermAx® special glass-ceramic connectors have excellent intrinsic electrical and mechanical properties. They also provide excellent metallic interfaces. As a result, HermAx® stainless steel glass-ceramic connectors deliver exceptionally low leak rates for harsh environmental applications.

• **High conductivity contacts**
HermAx® contacts are made from high performance copper alloy, capable of 3A per contact, per MIL-83513.

• **Low leak rates**
Helium leak testing is the most common method for evaluating hermetic sealing, and Axon follows MIL-STD-835X, method 1014-16, test condition A4 for single connectors. Axon’s HermAx® connectors are 100% leak tested and are supplied with guaranteed leak rate performance. Levels as low as 10\(^{-10}\) mbar.l/s are possible.

**For optimum size and leak rate performance HermAx connectors can be laser welded directly to a panel, port or enclosure – and this too is a service Axon can provide.**

If laser welding is not possible or not required, then HermAx® connectors are also compatible with many standard o-rings, which Axon® can also supply according to the application requirements.

**In-House Manufacturing**
Machining of the connector shells, glass-ceramic to metal sealing and plating are all in-house processes.

**From Standard to Custom Solutions**
Axon’s HermAx® connectors are available in all standard Micro-D pin counts, but can also be supplied with Axon’s fast locking D-Click technology, for near instant mating and de-mating with no need for tools.

Custom versions of HermAx® are also possible, and can be adapted as required. Circular bodies and other materials, such as aluminium or titanium are all possible.

Please contact your nearest sales office for more information.