

Amphenol D38999 G Class Series III Connectors

Now available with Vacuum Degassing

What Is Vacuum Degassing?

Degassing (or gas-off) is required of connectors and other components in space applications. As the name implies, the connectors must go through a vacuum outgassing procedure to remove harmful materials and substances, per rigorous NASA or military specifications.

Why Is This Important In Space?

While these construction materials are normal and harmless on earth based applications, they can become extremely hazardous in a space vacuum environment. Chemical or organic substances trapped inside materials (plastic, glue, coatings, etc.) could evaporate in the vacuum of space and then re-condense on a cooler surface. These surfaces might include optical or electronics components whose performance could be impaired or damaged by this surface condensation.

How Is Degassing Accomplished?

Assembled connectors are “baked” at a high temperature in a high-vacuum environment to evaporate and extract the potentially harmful substances trapped inside the normal construction materials. Powell’s vacuum oven system can achieve a maximum operating temperature of 300°C (572°F) at 10⁻⁶ torr vacuum range to meet the needs of any space qualification specification.

Does Every Connector Distributor Have This Capability?

No. This is a very specialized value-added capability and service that Powell is pleased to offer its customers.



Amphenol Space Grade Connector Details & Specifications

Amphenol
Aerospace

- Amphenol D38999 “G” Class Series III
- (453) and (467) in Commercial JT’s & LJT’s, TV Series III
- Electroless Nickel
- 48 Hour Salt Spray Plating
- 200°C (392°F) Temperature Rating

Powell®

Headquartered in Swedesboro, NJ, our expertise lies in the value-added assembly, materials management, and distribution of Amphenol Aerospace electronic connectors and related components. Powell is one of the oldest and most established suppliers of electronic components and has been serving customers in the military, aerospace and commercial electronic markets for over 70 years. Powell is a QPLD supplier of Amphenol and is ISO 9001:2000 registered and AS9100 certified. For more information, contact us at 1-800-235-7880, or visit our website: www.powell.com