

Improving Connector Reliability

Connectors are crucial to flight safety, and are particularly vulnerable to corrosion.

Aircraft Connectors and Wire Harnesses supply data and signals to critical avionics and flight equipment, making it imperative to protect the functionality and reduce the chance of corrosion.

How Moisture Gets Into Connectors



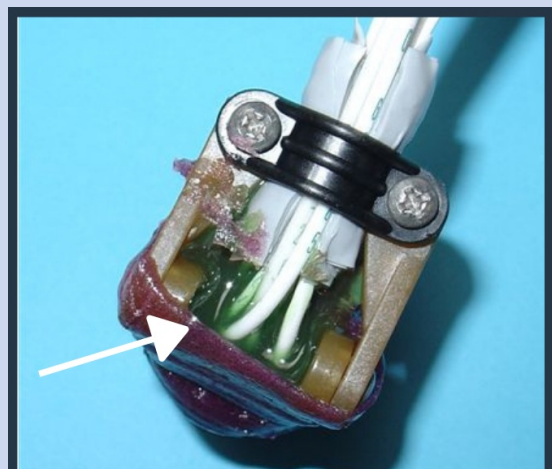
Corrosion can occur when condensation and moisture intrusion get into the back shell of the connector. The majority of aircraft connectors are made of aluminum or steel, and the electrical wire harness endpoints typically consist of wide variety of metals. Adding an electrolyte to the anode and cathode will result in the start of galvanic corrosion.

Moisture is the most significant contributor to corrosion in avionics systems.

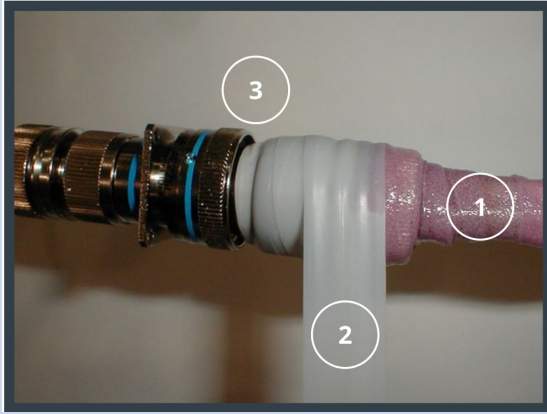
Protecting Connectors from Corrosion

Moisture and water often get trapped in the backshell, causing severe corrosion. Utilize Av-DEC Self-Leveling Green Injectable Sealant to fill or pot the Connector Backshell for a complete, watertight seal.

When applied, Self-Leveling Green creates a complete moisture barrier by sealing off potential water entrapment areas.



Av-DEC Dual Wrap Connector Sealing System



In addition to filling the Connector Backshell with Self-Leveling Green, Av-DEC Dual Wrap Connector Sealing System further enhances protection against moisture and corrosion.

The Dual Wrap Connector Sealing System combines:

1. HI-TAK StretchSeal (AD89503)
2. Self-Fusing Tape (AD59163)
3. Self-Leveling Green (HT3326-5)

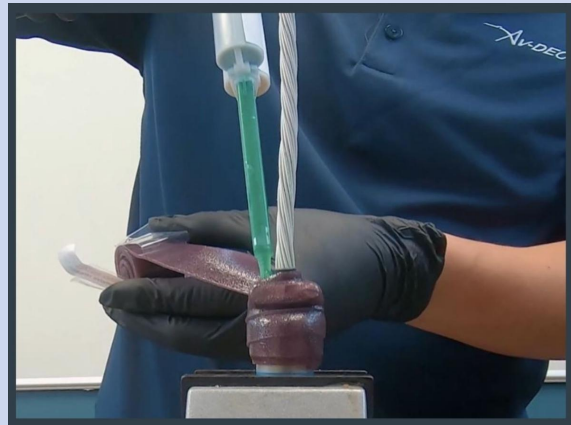
The Av-DEC Sealing System is approved in the Joint Service Manual for Potting and Sealing Connectors and Electrical Assemblies: NAVAIR 01-1A-505-1 and in many OEM Standard Wiring & Practices Manuals.

Benefits of Av-DEC Connector Sealing System

"Cold Application" of Dual Wrap Connector Sealing Kit requires no heat gun, therefore can be applied to a fueled aircraft.

A complete seal against corrosion which ensures connectors are protected from moisture and the negative effects it has on electrical components.

Easy to remove during regular inspections and leaves no residue that could damage the connectors.



[Dual Wrap Installation Video](#)



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Av-DEC
The Science That Stops Corrosion.