



## APPLICATION INFOSHEET

# AIRCRAFT PIPEWORK AND MECHANICAL JOINTS



Lightning currents flow not only in aircraft structures, they can also be conducted through metallic pipework. In particular hydraulic pipes pass through parts of the aircraft that can potentially be exposed to severe lightning events. As with all pipework, there are many joints in aircraft hydraulic systems. All these mechanical joints have to be tested to ensure continued hydraulic pressure integrity after a lightning strike with the objective of improving flight safety. Lightning impulses are applied up to 7.5 kA.

### Test types

- › 6.4/69µs Current Impulse, Lightning

### Standards

- › SAE ARP 6205
- › SAE AS5958
- › SAE AIR 6185



#### AVI-0812

Compact test solution for testing with waveform 1 current impulses up to 12 kA. Suitable for indirect lightning tests on material joints and pipework. AVI-0812 includes a dark mode, switching off all light sources for the easier detection of sparks.



#### MIG0618SS

Combined solution for PIN injection, cable induction and ground injection tests. Single stroke events according to standard or special applications

### MORE OPTIONS & COMFORT



Fully integrated test system for DO-160 section 22 up to level 3. PIN Injection, Cable Bundle. Single Stroke, Multiple Stroke and Multiple Burst. One coupler for WF1, WF2, WF3 and WF5A simplifies the test procedure while reducing setup errors.

### TEMA3000 - SOFTWARE TEST SUITE

Create and manage Tests and Sequences. Integrate DSO measurements in professional reports. Import and export Test Setups and Sequences. Smart test functions and predefined Test Library.



APPLICATION  
INFORMATION