



Wiring QPL Responsibilities

- Identify high quality wiring products for the fleet
- Monitor Fraud & Counterfeit Parts
- Conversion to SAE Specifications, Navy's best interest
- Ensure Third Party Oversight
- QA required to perform tests

Wiring QPL Benefits

- Improve Availability Of Products
- Shorten Procurement Process
- Complete Qualification Tests Prior To Award Of Contract
- Reduce Costs By Eliminating Repetitive Surveillance Audits And Tests

Mission of the Wiring Quality Products Laboratory

The Wiring Qualified Products Lab (QPL) within AIR-4.4.5.3 is dedicated to the testing, evaluation, and monitoring of Electrical Wiring Interconnect System (EWIS) components used on Department of Defense aircraft.

Wiring QPL was tasked by the Society of Automotive Engineers (SAE) to conduct critical testing on all (EWIS-related) converted Specifications as the qualifying and testing activity.

NAVAIR Wiring QPL Lab

- ❖ **Covers 38 Specifications**
- ❖ **For 230 Manufactures**
- ❖ **For Over 2 Million Part Numbers**

- Focuses On Qualifying Products Or Families Of Products
- Appropriate For Stable Design Items & Continually Available For Extended Period Of Time
- Cost effective solution for the qualification of EWIS products / components

Test Components

The Wiring QPL Lab conducts initial/retention qualification testing for:

- Electrical wire
- Clamps
- Cable Ties
- Cable Wire
- Wire Strippers
- Connectors
- Sockets
- Terminal Lugs
- Splices
- Crimp Tools
- Circuit Breakers
- Fuses
- Switches
- Relays
- Contacts
- Contact Insertion/Extraction Tools
- Heat Shrink Tubing
- Shield Termination Devices and Tools

Test Equipment

The Wiring QPL lab provides for destructive testing, and non-destructive testing of products comprised of environmental chambers (altitude chamber, cold bend chamber, salt/fog chamber, etc.), visual inspection equipment, (microscopes, comparator, etc.) as well as mechanical test equipment (calorimeter, Chatillon Digital Force Tester, Tensile/Compression Material Tester).

Critical Testing for Specifications:

AS21608	AS81044
AS22520	AS81306
AS22759	AS81659
AS23053	AS81790
AS23190	AS81824
AS39029	AS81842
AS50151	AS81924
AS50861	AS81969
AS5768	AS83519
AS7928	AS85049
AS7974	AS85485

NEMA WC27500

Wiring QPL Website

<http://www.navair.navy.mil/qpl/>

Wiring QPL maintains the web site for all QPL SIS (Supplemental Information Sheets), forms, and Q&A.

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**Wiring Qualified
Products
Laboratory (QPL)**

Air 4.4.5.3

"Serving the Fleet"

