

# AP-93 PLATING - 1000 HOUR ALT-TO-CAD

## RoHS COMPLIANT TRI-NICKEL ALLOY, INTERMATEABLE WITH CAD



Amphenol Aerospace introduces **AP-93** -- a new, durable REACH/RoHS compliant plating for aluminum connectors which outperforms Cadmium and exceeds 1000 hour salt spray requirements. **AP-93** is a conductive finish that meets or exceeds D38999 Cadmium requirements (under the commercial service class designator "DS") making it an excellent choice for harsh environments.

Military, commercial, and industrial markets continue to move away from Cadmium due to known toxic carcinogens. The new **AP-93** plating finish complies with all customer requirements tied to these specifications. Amphenol is also using European Union Directive 2002/95/EC RoHS as a guide to qualification for all military, commercial, and industrial specifications requiring the reduction or elimination of these restricted materials.

**AP-93** is intermateable with Cadmium, making it a drop-in replacement for applications where Cadmium has been a preferred choice. Applications include numerous components of land, sea, air, and weapons systems, as well as space systems, as it provides superior barrier protection and excellent lubricity for threaded applications.

**AP-93** exceeds Olive-Drab Cadmium plating (Class W) by meeting 1000 hours of dynamic salt spray, 500 mating cycles, and meets the millivolt drop shell-to-shell conductivity of nickel (Class F). **AP-93** also meets a 200° C temperature rating, is compatible with other platings, and is available on all D38999-style Series III connectors. For specific applications please contact Amphenol Aerospace.

### FEATURES & BENEFITS

- Available on all D38999 Series III style connectors
- Meets 1000 hour salt spray requirement
- REACH/RoHS compliant
- Intermateable with Cadmium -- excellent drop-in replacement for existing connectors.
- 500 mating cycles per D38999
- Meets 200° C temperature rating
- Meets D38999 shell-to-shell conductivity requirements

| Requirements                                | Nickel | CAD | AP-93 |
|---|--------|-----|-------|
| 336 Hours SO2 Exposure                      |        |     | *     |
| 500 Hours Salt Spray                        |        | *   | *     |
| 1000 Hours Salt Spray                       |        |     | *     |
| REACH/RoHS Compliant                        | *      |     | *     |
| CAD Intermateable                           |        | *   | *     |
| Non-Magnetic                                | *      | *   | *     |
| Temperature Rating 200° C                   | *      |     | *     |
| Shell-to-Shell Conductivity < 2.5 millivolt | *      | *   | *     |