

Glenair Composite Boxes, Connectors and Accessories Test Plan

Plating Adhesion Glenair# 9-44-18/TN94-159

The item is tested in accordance with MIL-DTL-38999 and should not exhibit any blistering, peeling or other separation of the units plating when immersed in ice water at 0°C within 15 seconds after 30 minutes exposure to 200°C in a circulating oven.

Vibration NTS# 973-7369-2

When mounted in a suitable fixture on a vibration table and subjected to vibration in accordance with MIL-STD-167 type 1 for box units & Mil STD-1344, Method 2005 Condition III, for fittings and accessories. The tested items should not exhibit loosening of component parts or evidence of damage.

Shock NTS# 973-7369-2

When mounted on an Impact plate the Glenair Box is subjected to shock load (Hammer drop) in accordance with MIL-STD-901D, Lightweight, Grade C, there shall be no loosening of parts or evidence of damage. A 400 LB hammer weight attached to a 5 foot long swing arm is raised and released to strike the mounting plate, 9 blows (3 blows in 3 axis).

Shock MOD# BR8470 Grade C & F

Glenair box is mounted on a suitable fixture and subjected to an initial 70G load progressing to 130G load in accordance with MOD BR 8470 Grade C & F, there shall be no loosening of parts or evidence of damage.

Salt Spray Glenair# 9-44-18/TN94-159

The item shall meet Braid Retention, Device conductivity, functional requirements and exhibit no exposure of underplate or base material when subjected to 2000 hrs per MIL-STD-1344 Method 1001.

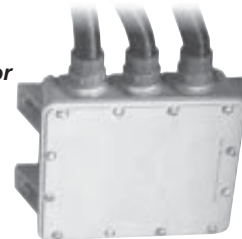
Dust NTS# 973-7369-1

The item must conform to required torque limits and functional requirements within 25% after being subjected to sand and dust test of MIL-STD-202 Method 110.

UV Light Resistance GE RDM88050255-6042

There shall be no degradation of the mechanical properties defined in this specification after testing in accordance with ASTM D2565

Glenair's 140-060 Series Junction Box for the US Navy is available in four sizes and is supplied either with or without terminal rails and blocks



Impact

There shall be no evidence of breaking or cracking of components or other damage, which could affect the product performance. The box will be tested in accordance with MIL-STD-1344 Method 2015 using 8 drops from a height of 2 meters with plate indexed at 36° intervals.

External Bending Moment

Glenair# 9-44-18/TN94-159

No evidence of damage detrimental to normal operation when subjected to 3X magnification after being subjected to loads specified in MIL-STD-1344.

Temperature Cycling NTS# 575-9249

Item is subjected to a controlled temperature in accordance with MIL-Std-1344 Method 1003 @ – 65°C to 200°C. After testing the product must not exhibit any cracking, peeling or separation of plating, or other functional damage.

Hydrolytic Stability NTS# 878-536

In accordance with ASTM D570-81, Tested Items shall be free of defects detrimental to mechanical performance, no increase in weight greater than 1% and no evidence of cracking, breaking or loosening of component parts when subjected to boiling water.