



AEROSPACE RECOMMENDED PRACTICE

ARP5614™

REV. A

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Superseding ARP5614

Guidelines for Harness Critical Clamp Locator Marker Installation on Electrical Cable Assemblies

RATIONALE

ARP5614A is being stabilized because the processes are considered mature and the committee does not anticipate future technical guidance. Stabilization does not imply the process is unacceptable for applications for which it is designed. Any changes noted by a user which results in a change of guidance will be addressed by a new revision.

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1. SCOPE

This ARP specifies the recommended methods of marking electrical wiring and harnesses to aid in the positioning/routing of electrical wiring, harnesses and cable assemblies.

1.1 Purpose

The purpose of this ARP is to provide guidance on accepted methods for marking electrical wiring and harnesses when control of routing is required for structural clearance, use of service loops, and/or harness movement during ground/flight operations.

1.2 General

Primary support of aircraft wiring is provided by metal cushion clamps (such as AS21919 or AS23190) and spaced at intervals not to exceed 24 inches. Harness Critical Clamp Locator Markers are used to install the harness in the metal cushioned clamps in specific locations.

In areas of minimum clearance and separation aircraft requiring Harness Critical Clamp Locator Markers, electrical wiring and harnesses may require additional support and protection to prevent chafing, mechanical strain that could lead to arcing and/or damage/breakage to control cables, from associated moving equipment and structure. Preventing interference between electrical wiring, harnesses and equipment that slide or travel by design (shock and vibration mounted equipment or equipment required to be moved (slide) without being disconnected) is also required. Standard practice methods to prevent chafing are required in addition to primary support not in lieu of primary support.

In addition to being supported in areas of minimum clearances and separation requiring Harness Critical Clamp Locator Markers, electrical wiring and cable assemblies must also be protected. Shielded or metal braid harnesses may require protective non-metallic covering in the event of loosening or failure of the primary support.