



March 27, 2024

Subject: Change to SAE/USCAR-44 Rev. 2 (Revision letter #1)

A modification has been made to USCAR-44 clause 5.3.3 that describes criteria for clip shear strength. Comments and/or questions can be addressed to EWCAP@uscar.org.

SAE/USCAR-44 REVISION 2 Revised 2023-03
PERFORMANCE SPECIFICATION FOR AUTOMOTIVE WIRE HARNESS RETAINER CLIPS - 18 -

- 3A. For simple cable tie designs: Insert mandrel and tighten to the cable tie. See Figure 6. Apply a side load force to CUT as shown by the arrow in Figure 6. This location simulates a side load being created from a wire bundle being pulled perpendicular to mounting plate. Pull at 25 mm/min until part fails.
- 3B. For designs where the mandrel is not able to apply shear force, apply a side load force as shown by the arrow in Figure 7. This location simulates a side load being applied in the worst case for the given configuration. Pull at 25 mm/min until part fails.

4. Record:

- a. The force reached prior to failure.
- b. The mode and location of failure.

5.4.4 Acceptance Criteria

1. Component failure for applied side load shall be ≥ 110 N (~~or \geq the strength of the integral strap if strength of strap is less than 110 N, such as the T18 tie strap.~~)
2. Components shall not be displaced from the test plate while force is equal to or under criteria per item 1.

NOTE: If force at failure is ≥ 220 N, the part is validated for "heavy-duty shear."