

01/29/2024

Subject: Change #6 to SAE/USCAR-45 (initial release)

Changes have been made to the USCAR-45 to fix a typing error in section 4.5.4. It is effective starting today. Comments and questions can be sent to [EWCAP@uscar.org](mailto:EWCAP@uscar.org).

**Concern:**

Section 4.5.4 was intended to say “heat shrink tubing” but due to a typing mistake, the words “shrink” and “tubing” were omitted.

**Resolution:**

SAE/USCAR-45  
PERFORMANCE SPECIFICATION FOR WELDED WIRE-TO-WIRE SPLICES

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4.5.2 Equipment

Force tester with appropriate fixture(s). Fixture design and set up is dependent on the specific WUT.

4.5.3 Procedure

1. Load WUT in the test fixture so that the smallest wire is in the moveable jaw of the fixture. Place the largest wire available for testing in the fixed jaw. The peeling action that results must match the peeling action shown in Figure 7. The largest and smallest wires of the WUT must be pulled 180° apart.
2. Apply a force and measure and record peak peel force to separate the wires.

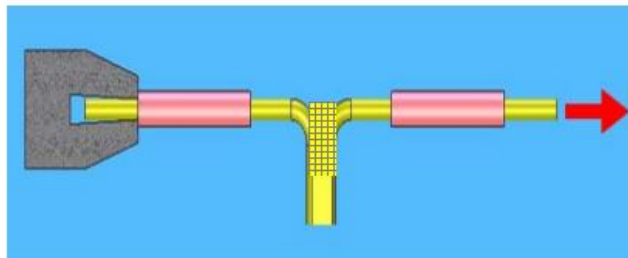


FIGURE 7 - PEEL STRENGTH TEST SET-UP (BUTT SPLICE SHOWN)

4.5.4 Acceptance Criteria

Measured peel strength of all samples shall equal or exceed the value listed in Table 8. If required value per Table 8 is not achieved, it is allowed to make an identical WUT with added reinforcements ~~(such as heat)~~ and retesting.

Replace highlighted words with  
“such as heat shrink tubing”

