

04/04/25

Subject: Change #1 to SAE/USCAR-49, Revision 1

This letter describes a change to the USCAR-49 specification. Comments and questions can be sent to [EWCAP@uscar.org](mailto:EWCAP@uscar.org).

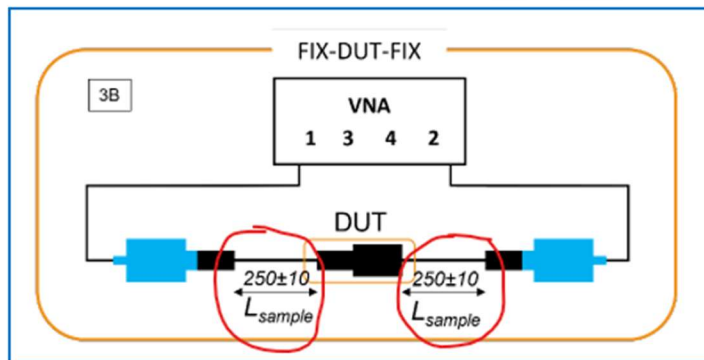
### **Situation:**

In USCAR-49 Section 4.2.3, the tolerances on the individual cable lengths in “Figure 3 – Structures for de-embedding in-line connectors” where the “FIX-DUT-FIX” cable lengths are  $250 \pm 10$ mm. This differs from the cable length tolerance as shown in Figure 4 - Structures for de-embedding PCB headers” where the “FIX-DUT-FIX” cable is  $250 \pm 5$ mm. This leads to potential cable length variation during validation. The increased tolerance of  $\pm 10$ mm could also cause a scenario where 0mm of cable is included in the de-embedded S-Parameter measurements.

### **Resolution**

Update Figure 3B, “FIX-DUT-FIX”, to reflect a  $\pm 5$ mm tolerance for each cable length.

Current Figure 3B.



Revised Figure 3B.

