

03/29/2022

Subject: Change to SAE/USCAR-21, Rev 4 (Letter #4)

Changes have been made to the USCAR-21 specification. Section 4.2.5-10, showing the visual criteria for applied cable seals, has subsections e, f, and g added. Comments and questions can be sent to EWCAP@uscar.org.

Situation:

Visual criteria for applied cable seals do not include checking for interference between the cap of the cable seal and the connector cavity. A design with interference may create a leak path.

Resolution:

Add the following to Section 4.2.5-10:

e. The ICH/ICW at the maximum tolerance must be less than the minimum terminal cavity height and width. The insulation crimp shall not contact a cable seal sealing surface during terminal installation.

f. The cable seal neck and retention feature shall not exceed the height of the primary sealing ribs (see “No Good” Example in Figure 4.2.5J).



FIGURE 4.2.5J – EXCESSIVE CABLE SEAL NECK

g. Puckering of the cable seal neck and retention feature between the insulation wings shall not interfere with the terminal cavity during terminal installation (see “No Good” Example in Figure 4.2.5K).



FIGURE 4.2.5K – CABLE SEAL INTERFERENCE DURING INSERTION