



Date: 2/23/2021

Subject: Change to SAE/USCAR-21, Rev 4 (Letter #2)

This letter describes a change to USCAR-21 (Crimp testing). Comments and/or questions should be addressed to EWCAP@uscar.org

The change is to Table 3.6 (Equipment List). It is being changed move the listing for a "Temperature Cycling Chamber" from the table to a note. Please replace the existing table with the one below. The specification's intent, method and criteria are not changed.

TABLE 3.6 - EQUIPMENT LIST

DESCRIPTION	REQUIREMENTS
DC Power Supply (Regulated)	⇒0~20V current sized as required
Micro-Ohmmeter	⇒0-20 mV maximum open circuit voltage ⇒100 mA maximum test current ⇒0.01 mΩ resolution
Digital Multimeter (DMM)	Capable of measuring 0.001-50 Volts DC with accuracy of 0.5% of measurement
Millivolt Meter	Capable of measuring 0-100 mV DC with accuracy of 0.5 mV
Thermocouples	Type "J" or "T" as required (small size ~.08mm)
Force Tester	Capable of an accuracy of 1% of measurement
Temperature Cycling Chamber	⇒ -40 °C to 125 °C, 0% to 98% RH
Thermal Shock Chamber	⇒ -40 ± 3 to 125 °C (in 5 minutes or less)
Forced Air Oven*	⇒ +85 ±3 °C
Temperature Chamber*	⇒ -40 ± 3 °C
Temp. /Humidity Chamber*	⇒ 95 to 98% RH at +65 ± 3 °C

* Alternate equipment in lieu of the shown equipment can be used. Many automatic temperature humidity cycling chambers are available that perform all three conditions.