

08/07/2023

Subject: Change #10 to SAE/USCAR-2, Rev 8

Changes have been made to the USCAR-2 specification section 5.4.3 to eliminate an unneeded test. These changes takes effect today and are applicable to USCAR-2 Revision 8. Comments and questions can be sent to [EWCAP@uscar.org](mailto:EWCAP@uscar.org).

**Concern:**

A typing error was found in footnote 2 of Table 5.9.8/5.9.9.

**Resolution:**

Correct as shown.

5.9.8 Unsealed Connection System Environmental Test Sequence

5.9.9 Stand-Alone Sealing Performance Test Sequence

**TABLE 5.9.8: UNSEALED CONNECTION SYSTEM ENVIRONMENTAL TEST SEQUENCE**

**TABLE 5.9.9: STAND-ALONE SEALING PERFORMANCE TEST SEQUENCE**

Test Name	5.9.8		5.9.9			
	Temp/Humidity	Pressure/Vacuum Standalone	Submersion Standalone	High Pressure Spray Standalone	Pressure/Vacuum Standalone for Cavity Plugs	
Test Sequence ID	V	W	AC	AD	AF	
Sample Size minimum (See individual procedures)	Connector	10	10 <sup>(2)</sup>	10 <sup>(2)</sup>	10 <sup>(2)</sup>	10 <sup>(3)</sup>
	Terminal	Note 1	Note 1	Note 1	Note 1	10 <sup>(3)</sup>
Applicable Cable Size	Largest	Smallest <sup>(2)</sup>	Smallest <sup>(2)</sup>	Smallest <sup>(2)</sup>	Smallest	
5.1 General	1	1 <sup>(2)</sup>	1 <sup>(2)</sup>	1 <sup>(2)</sup>	1 <sup>(2)</sup>	
5.1.8 Visual Inspection	2,7	2,7	2,7	2,7	2,9	
5.1.7 Connector and/or Terminal Cycling	3	3	3	3	3	
5.1.9 Circuit Continuity Monitoring						
5.3.1 Dry Circuit Resistance						
5.3.2 Voltage Drop						
5.4.1 Terminal-Connector retention force	8					
5.4.6 Vibration/Mechanical Shock						
5.5.1 Insulation Resistance	4, 6	4, 6	4, 6	4, 6	4, 6	
5.6.1 Thermal Shock						
5.6.2 Temperature/Humidity Cycling	5					
5.6.3 High Temperature Exposure						
5.6.4 Fluid Resistance						
5.6.5 Submersion			5			6
5.6.6 Pressure/Vacuum Leak		5				5
5.6.7 High Pressure Spray				5		7

NOTES:

- (1) The number of terminals is determined by the number required to fully populate the total number of connector samples.
- (2) Connectors with multi-cavity (mat) conductor seals require one additional set of ten CUTs per multi-cavity (mat) conductor seals sample preparation (5.1.10) making a total of two sets required. This applies to all 5.9.7 tests except Test Path Q (fluid resistance).
- (3) Testing of cable plugs for connectors requires one additional set of ten CUTs. Prepare samples fully populated with cavity plugs except for a minimum of two adjacent terminal cavities populated with terminals with wires for insulation resistance testing.

Change "5.9.7" to  
"5.9.8/5.9.9"

