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TEST REPORT # STR-1000

BACK-OFF TORQUE ON REALLOCK 10RL9-N011 (D38999/24 CONNCETOR, SHELL SIZE 12)

OBJECTIVE:

The objective of this test is to determine the amount of torque resistance the lobes on REALLOCK will withstand when a load is applied to the lobes. Additionally, testing will be done to determine the torque resistance of "safety wire".

RESULTS/CONCLUSIONS:

A "back-off" load was applied to 10RL9-N011 installed on connector D3899/23YB98PN as shown in Exhibit 1. At 15 inch pounds, the lobe of REALLOCK folded back and no longer locked the nut. At the same time, the second lobe on REALLOCK was engaged and again folded back at 15 inch pounds. See Exhibit 2 to examine the lobes at completion of test. This test was repeated 3 times with the same results.

Safety wire was then installed on switch demo (see Exhibit 3) and a load was applied to the safety wire. At 57 inch pounds, the wire broke (see Exhibit 4). This test was repeated 2 times with the same results.

While safety wire is certainly stronger as evident by this test, it should also be noted there REALLOCK designs with provide in excess of 100 foot pounds.



