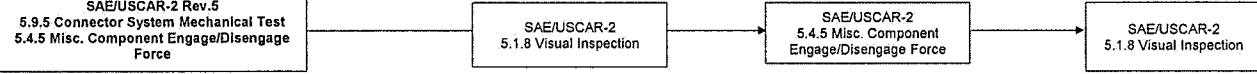


 Design Verification Plan and Report										1.2mm Sealed Connector (3way)									
System Various				Assembly EU5T-14A464-EAB/AFA EU5T-14A464-ABA/AHA EU5T-14A464-VB/AGA EU5T-14A464-ACA/AJA				Program Various				Date: 7/18/2013 Compared with 9/4/2018							
Subsystem Connectors Assembly				Component: 1.2mm 3way Sealed Female Connector				Latest Design Level (TPA revision) PV - Production				Design Engineer Joe Lanzotti/ Raynard Thomas Concurred: <i>JP 9/24/18</i>							
Test Name/Source	Acceptance Criteria	Test Results	Design Level Tested	Sample Size		Statistical Test Accept. Criteria*		Timing		Remarks									
				Required	Tested	Required	Actual	Sched.	Actual										
Group E - Connector System Mechanical Test "Miscellaneous Component Engage/Disengage Force"																			
																			
																			
E-1. Visual Inspection	The connectors assemblies must not show, with the aid of 10X magnification, any evidence of deterioration, cracks, deformities, etc, that could affect their functionality or distort their appearance. Connector locking mechanism must function without breaking.	Pass	DV	50 each key	50 each key	50 each key	50 each key												
E-2.a KeyA TPA Engage (Pre-set to Lock) with terminals	60N or less	Max. Min. Ave.	PV	10	10	10	10												
		28.8 24.9 26.5																	
E-2.a KeyA TPA Engage (Pre-set to Lock) with terminals (New Design)		Max. Min. Ave.																	
		27.2 20.1 22.2																	
E-2.a KeyB TPA Engage (Pre-set to Lock) with terminals		Max. Min. Ave.																	
		46.8 18.3 23.7																	
E-2.a KeyB TPA Engage (Pre-set to Lock) with terminals (New Design)		Max. Min. Ave.																	
		29.3 24.0 25.6																	
E-2.a KeyC TPA Engage (Pre-set to Lock) with terminals (New Design)	Max. Min. Ave.	PV	10	10	10	10													
	27.7 23.6 25.6																		
E-2.a KeyD TPA Engage (Pre-set to Lock) with terminals (New Design)	Max. Min. Ave.																		
	30.2 26.2 28.4																		
E-2.b KeyA TPA Engage (Pre-set to Lock) without terminals	Max. Min. Ave.									PV	10	10	10	10					
	34.4 29.4 32.5																		
E-2.b KeyA TPA Engage (Pre-set to Lock) without terminals (New Design)	Max. Min. Ave.																		
	26.1 20.2 23.6																		
E-2.b KeyB TPA Engage (Pre-set to Lock) without terminals	Max. Min. Ave.																		
	48.4 25.8 38.6																		
E-2.b KeyB TPA Engage (Pre-set to Lock) without terminals (New Design)	Max. Min. Ave.																		
	28.0 22.9 25.6																		
E-2.b KeyC TPA Engage (Pre-set to Lock) without terminals (New Design)	Max. Min. Ave.	PV	10	10	10	10													
	28.2 23.0 25.6																		
E-2.b KeyD TPA Engage (Pre-set to Lock) without terminals (New Design)	Max. Min. Ave.																		
	32.8 27.6 30.6																		
E-3.a KeyA TPA Disengage (Lock to pre-set) with terminals	Max. Min. Ave.									PV	10	10	10	10					
	24.6 20.0 22.2																		
E-3.a KeyA TPA Disengage (Lock to pre-set) with terminals (New Design)	Max. Min. Ave.																		
	27.7 20.1 24.6																		
E-3.a KeyB TPA Disengage (Lock to pre-set) with terminals	Max. Min. Ave.																		
	38.4 17.2 29.1																		
E-3.a KeyB TPA Disengage (Lock to pre-set) with terminals (New Design)	Max. Min. Ave.																		
	28.6 22.0 26.1																		
E-3.a KeyC TPA Disengage (Lock to pre-set) with terminals (New Design)	Max. Min. Ave.	PV	10	10	10	10													
	30.9 22.6 26.1																		
E-3.a KeyD TPA Disengage (Lock to pre-set) with terminals (New Design)	Max. Min. Ave.																		
	32.1 24.4 28.0																		
E-3.b KeyA TPA Disengage (Lock to pre-set after initial removal)	Max. Min. Ave.									PV	10	10	10	10					
	20.6 18.1 19.2																		
E-3.b KeyA TPA Disengage (Lock to pre-set after initial removal)	Max. Min. Ave.																		
	23.0 18.0 20.9																		
E-3.b KeyB	Max. Min. Ave.																		

 Design Verification Plan and Report												1.2mm Sealed Connector (3way)	
System Various		Assembly EU5T-14A464-EAB/AFA EU5T-14A464-ABA/AHA EU5T-14A464-VB/AGA EU5T-14A464-ACA/AJA			Program Various				Date: 7/18/2013 Compared with 9/4/2018			Design Engineer Joe Lanzotti/ Raynard Thomas	
Subsystem Connectors Assembly		Component: 1.2mm 3way Sealed Female Connector			Latest Design Level (TPA revision) PV - Production				Concurred:				
Test Name/Source	Acceptance Criteria	Test Results			Design Level Tested	Sample Size		Statistical Test Accept. Criteria*		Timing		Remarks	
						Required	Tested	Required	Actual	Sched.	Actual		
TPA Disengage (Lock to pre-set after initial removal)	18N or over	32.4	20.3	26.3	PV	10	10	10	10				
E-3.b KeyB TPA Disengage (Lock to pre-set after initial removal)		Max.	Min.	Ave.									
TPA Disengage (Lock to pre-set after initial removal)		23.8	18.9	21.3	PV	10	10	10	10				
E-3.b KeyC TPA Disengage (Lock to pre-set after initial removal)		Max.	Min.	Ave.									
TPA Disengage (Lock to pre-set after initial removal)		25.0	18.4	21.2	PV	10	10	10	10				
E-3.b KeyD TPA Disengage (Lock to pre-set after initial removal)		Max.	Min.	Ave.									
TPA Disengage (Lock to pre-set after initial removal)		26.1	20.6	24.0	PV	10	10	10	10				
E-3.c KeyA TPA Disengage (Removal)	25N or over (see remarks)	Max.	Min.	Ave.	PV	10	10	10	10			Acceptance criteria to be 20N or over	
TPA Disengage (Removal)		28.2	25.4	26.6									
E-3.c KeyA TPA Disengage (Removal)		Max.	Min.	Ave.	PV	10	10	10	10				
TPA Disengage (Removal)		31.2	25.0	28.2									
E-3.c KeyB TPA Disengage (Removal)		Max.	Min.	Ave.	PV	10	10	10	10			Acceptance criteria to be 20N or over	
TPA Disengage (Removal)		37.8	22.2	28.3									
E-3.c KeyB TPA Disengage (Removal)		Max.	Min.	Ave.	PV	10	10	10	10				
TPA Disengage (Removal)		35.0	25.4	28.8									
E-3.c KeyC TPA Disengage (Removal)		Max.	Min.	Ave.	PV	10	10	10	10				
TPA Disengage (Removal)		51.8	25.2	33.5									
E-3.c KeyD TPA Disengage (Removal)	Max.	Min.	Ave.	PV	10	10	10	10					
TPA Disengage (Removal)		46.0	28.0	32.8									

* PICTURES SHOW LESS DAMAGE AFTER TESTING IN TPA LOCKING AREA.

* NEW SAMPLES ALL PASSED 500 pc. hand pull testing that more accurately represents real world conditions