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QUALIFICATION TEST REPORT ABSTRACT
FOR
GLENAIR
SPEEDMASTER CONTACT
858-100 AND 858-101

REPORT NO. GT-22-185 ABSTRACT

858-100

858-101

PREPARED BY: Ryan O'Rhea DATE: 11/18/24
Name

UPDATED BY: _____ DATE: _____

1.0 Product Description/Application

SpeedMaster 10G is purpose-designed to meet the performance requirements and installation and use preferences for the aerospace industry. Optimized for high-speed Cat 6A Ethernet performance, the SpeedMaster 10G system offers industry-leading NEXT, return loss, and insertion loss performance due to its highly-engineered isolation and separation architecture. It's available in three industry proven connector styles for general purpose, military, and commercial applications: Series 80 Mighty Mouse 824 locking push/pull connector; HiPer-D, M24308 connector; and Series 23 SuperNine, 38999 type connectors.

1.1 Purpose

This test plan defines the parameters, test methods, test sequence and test samples required to determine the capabilities of the SpeedMaster contact to survive lightweight high impact shock. The test was performed on the test samples: High Impact Shock.

1.2 Scope

This report documents the results of the testing performed on the SpeedMaster contacts. The acceptance test criteria referenced in QTP-1100, Rev A, was used to help validate the testing requirements. The tests were performed by Glenair, Inc. and Environmental Associates, INC. The document listed below is on file at Glenair and are available upon request.

Applicable Test Reports		
Test Report Number	Provider	Date Tested
GT-22-185	Glenair Inc.	14 November, 2022
44834-0826948	Environment Associates	8 August 2022

1.3 Conclusion

858-100 and 858-101 have been shown to be capable of meeting performance requirements of SpeedMaster contacts.

1.4 Test Specimen

Test Sample Description		
Description	Part Number	
Connectors and Backshells	233-219-00ME11-1AN	
	233-219-G6ME11-1AN	
	620HS090ME11-1215	
Cable Assemblies	SpeedMaster P/N	Glenair P/N
	858-100	8575-0001-BC-5-60
	858-101	8571-0001-AC-5-60

1.5 Inspection Procedure

All tests were performed with the test specimen at standard laboratory conditions and within

procedural parameters as defined below.

1. Ambient (Room) Temperature: 25± 10°C (77 ± 18°F)
2. Relative humidity: Room ambient up to 90% relative
3. Barometric pressure: Prevailing room conditions

Qualification Test Summary			
Test Description	QTP-1100 Test Requirements	Number of Mated Pairs Tested	Results
Examination of Product	7.1	2	Passed
Electrical Performance 10GBase-T	7.2	2	Passed
Mechanical Shock Hight Impact	7.3	2	Passed

1.8 **Examination of Product**

Connector assemblies shall be inspected to ensure that all SpeedMaster cable assemblies are secure and in the correct cavity.

1.9 **High Impact Shock**

1.9.1 Test Method
MIL-S-901, grade A, lightweight

1.9.2 Requirement
Mounting fixture in accordance with MIL-S-901, lightweight.

1.9.3 Results
PASS. PN 858-100, 858-101 did not exhibit errors or failures.

1.9.4 Test Anomalies/Deviations
N/A