



Glenair, Inc. 1211 Air Way, Glendale, California, 91201

Tel: (818) 247-6000 Fax: (818) 247-7240

TEST REPORT: GT-24-026 January 2024

# **QUALIFICATION TEST REPORT: GT-24-026**

**FOR AS39029, TYPE A CONTACTS:**

**M39029/121-663 & M39029/122-670**



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**SCOPE**

Quality Testing was conducted on size 23, Type A contacts, Glenair part number 850-318-23-663 and 850-319-23-670 IAW M39029/121-663 & M39029/122-670 and per Navair authorization AB43300/23-116 (00410234.AE) initial qualification manufactured by Glenair, Inc.

**TEST SUMMARY AND RESULTS**

**Group I Test Sequence per AS39029 - Table 12**

Inspection	Requirement Paragraph	Test Procedure Paragraph	Results
Examination of product	3.1, 3.3, 3.4, 3.6, & 3.7	4.7.1	PASS
Permeability	3.5.1	4.7.2	PASS
Prepare of samples	-	4.3.1	PASS
Examination wired contacts	-	4.7.1.1	PASS
Axial concentricity (wired)	3.5.2.2	4.7.3.2	PASS
Low signal contact resistance	3.5.3.1	4.7.4	PASS
Contact resistance (25° C)	3.5.4	4.7.5	PASS
Contact engagement and separation force	3.5.5	4.7.6	PASS
Thermal shock	3.5.6	4.7.7	PASS
Contact engagement and separation force	3.5.5	4.7.6	PASS
Resistance to test probe damage	3.5.7	4.7.8	PASS
Contact engagement and separation force	3.5.5	4.7.6	PASS
Low signal level contact resistance	3.5.3.1	4.7.4	PASS
Contact resistance (25° C)	3.5.4	4.7.5	PASS
Crimp tensile strength	3.5.8	4.7.9	PASS



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**Group II- Test Sequence per AS39029 - Table 12**

Inspection	Requirement Paragraph	Test Procedure Paragraph	Results
Examination of product	3.1, 3.3, 3.4, 3.6, & 3.7	4.7.1	PASS
Permeability	3.5.1	4.7.2	PASS
Prepare of samples	-	4.3.1	PASS
Examination wired contacts	-	4.7.1.1	PASS
Axial concentricity (wired)	3.5.2.2	4.7.3.2	PASS
Low signal contact resistance	3.5.3.1	4.7.4	PASS
Contact resistance (25° C)	3.5.4	4.7.5	PASS
Contact engagement and separation force	3.5.5	4.7.6	PASS
Durability	3.5.9	4.7.10	PASS
Vibration – Sine at 200° C	AS39029/121 & 122	7a	PASS
Vibration – Random at 200° C	AS39029/121 & 122	7b	PASS
Vibration – Random at ambient	AS39029/121 & 122	7c	PASS
Contact resistance 25° C	AS39029/121 & 122	7e	PASS
Shock	AS39029/121 & 122	7 - Shock	PASS
High Impact shock	AS39029/121 & 122	7 - High Impact Shock	PASS
Salt spray	3.5.12	4.7.13	PASS
Low signal level contact resistance	3.5.3.1	4.7.4	PASS
Contact resistance (25° C)	3.5.4	4.7.5	PASS
Contact resistance (at 200°)	3.5.4	4.7.5	PASS
Contact engagement and separation force	3.5.5	4.7.6	PASS



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**Group IV Test Sequence per AS39029 - Table 12**

Inspection	Requirement Paragraph	Test Procedure Paragraph	Results
Examination of product	3.1, 3.3, 3.4, 3.6, & 3.7	4.7.1	PASS
Permeability	3.5.1	4.7.2	PASS
Prepare of samples	-	4.3.1	PASS
Examination wired contacts	-	4.7.1.1	PASS
Axial concentricity (wired)	3.5.2.2	4.7.3.2	PASS
Low signal contact resistance	3.5.3.1	4.7.4	PASS
Industrial gas	3.5.14	4.7.15	PASS
Low signal contact resistance	3.5.3.1	4.7.4	PASS
Contact strength	3.5.15	4.7.16	PASS

**Group V Test Sequence per AS39029 - Table 12**

Inspection	Requirement Paragraph	Test Procedure Paragraph	Results
Examination of product	3.1, 3.3, 3.4, 3.6, & 3.7	4.7.1	PASS
Permeability	3.5.1	4.7.2	PASS
Axial concentricity (unwire)	3.5.2.1	4.7.3.1	PASS
Prepare of samples	-	4.3.1	PASS
Examination wired contacts	-	4.7.1.1	PASS
Axial concentricity (wired)	3.5.2.2	4.7.3.2	PASS
Crimp tensile strength	3.5.8	4.7.9	PASS



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**Group VI Test Sequence per AS39029 - Table 12**

Inspection	Requirement Paragraph	Test Procedure Paragraph	Results
Examination of product	3.1, 3.3, 3.4, 3.6, & 3.7	4.7.1	PASS
Plating porosity	3.5.16	4.7.17	PASS

**Group VII Test Sequence per AS39029 - Table 12**

Inspection	Requirement Paragraph	Test Procedure Paragraph	Results
Examination of product	3.1, 3.3, 3.4, 3.6, & 3.7	4.7.1	PASS
Plating thickness	3.5.17	4.7.18	PASS