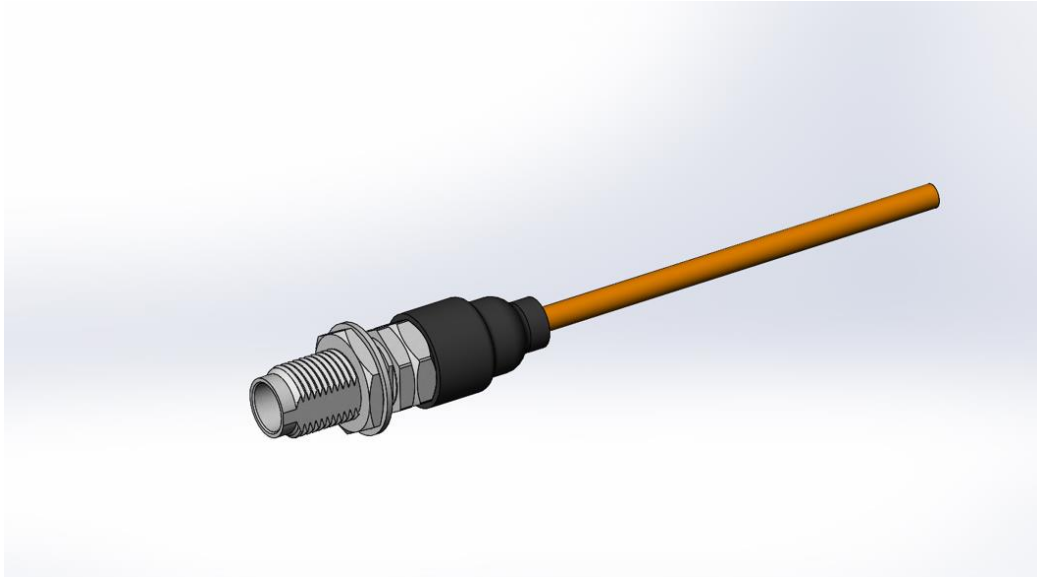




Project Number: Design Qualification Test Report	Tracking Code: CR-1263204_Report_Rev_1
Requested by: Tom Yahav	Date: 7/25/2025
Part #: PRF18-J-C-EP-071B-BS	
Part description: PRF18-071B	Tech: Tony Wagoner
Test Start: 7/20/2025	Test Completed: 7/23/2025



## **DESIGN QUALIFICATION TEST REPORT**

**PRF18-071B  
PRF18-J-C-EP-071B-BS**

Tracking Code: CR-1263204_Report_Rev_1	Part #: PRF18-J-C-EP-071B-BS
Part description: PRF18-071B	

**REVISION HISTORY**

<b>DATA</b>	<b>REV.NUM.</b>	<b>DESCRIPTION</b>	<b>ENG</b>
7/23/2025	1	Initial Issue	KC

Tracking Code: CR-1263204_Report_Rev_1	Part #: PRF18-J-C-EP-071B-BS
Part description: PRF18-071B	

## CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to ISO 10012-1 and ANSI/NCSL 2540-1, as applicable.

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### SCOPE

To perform the following tests: Design Qualification test. Please see test plan.

### APPLICABLE DOCUMENTS

Standards: MIL-PRF-39012, EIA Publication 364.

### TEST SAMPLES AND PREPARATION

- 1) All materials were manufactured in accordance with the applicable product specification.
- 2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
- 3) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
- 4) Any additional preparation will be noted in the individual test sequences.

**FLOWCHARTS**

**Center Contact Retention**

Group 1

PRF18-J-C-EP-071B-BS

5 Assemblies

LL071 1.85mm Bulkhead Jack Connector

Step	Description
1.	Interface Gaging Interface Depth MAX = 0.003 " <i>Note: Measure Socket Contact recess using RF Interface Gage.</i>
2.	Retention - Applied Force Axial Force = 2.25 lbs <i>Note: Apply force axially to contact tip.</i>
3.	Interface Gaging Interface Depth MAX = 0.003 " <i>Note: Measure Socket Contact recess using RF Interface Gage.</i>

Group 2

PRF18-J-C-EP-071B-BS

5 Assemblies

LL071 1.85mm Bulkhead Jack Connector

Step	Description
1.	Retention - To Destruct <i>Note: Apply axial force to contact tip. Push to destruct. Record destruct force.</i>

### **ATTRIBUTE DEFINITIONS**

The following is a brief, simplified description of attributes.

#### **Center Contact Retention:**

- 1) Apply 2.25 pounds force axially to contact tip

**RESULTS**

**Center Contact Retention**

- **Min** -----22.26 lbs
- **Max** -----25.75 lbs

**Interface Gaging**

**Center Contact Retention Group  
LL071-18BJ-505050-0152**

**Initial**

- **Min** ----- 0.0010 inch
- **Max** ----- 0.0026 inch

**After Retention**

- **Min** ----- 0.0012inch
- **Max** ----- 0.0026 inch

**DATA SUMMARIES**

**Center Contact Force:**

	<b>Push Force</b>	
	Newtons	Force (Lbs)
Minimum	99.01	22.26
Maximum	114.54	25.75
<b>Average</b>	<b>106.66</b>	<b>23.98</b>
St Dev	8.03	1.80
Count	5	5

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Part description: PRF18-071B	

**EQUIPMENT AND CALIBRATION SCHEDULES**

**Equipment #:** TCT-11  
**Description:** Normal force analyzer  
**Manufacturer:** Mecmesin Multitester  
**Model:** Mecmesin Multitester 2.5-i  
**Serial #:** 08-1049-04  
**Accuracy:** Last Cal: 4/25/2025, Next Cal: 4/24/2026