






# Validation Test Report

187 SERIES 1P POSITIVE LOCK(MARK-II)HOUSING

March 30, 2018.

Tested & Reported By	Reviewed By	Approved By	Test Date	From March 26, 2018 To March 29, 2018
			Classification	Unrestricted

## ● TE CONNECTIVITY RELIABILITY TEST REPORT

Test Name : Validation for 187 SERIES 1P POSITIVE LOCK(MARK-II)HOUSING

### 1. Introduction

#### 1-1 Purpose

Testing was performed on the 187 SERIES 1P POSITIVE LOCK(MARK-II)HOUSING to determine if it conformance to the requirements of Product Specification 108-5338

This experiment is intended to verify the reliability of the raw material change.

#### 1-2 Scope

This report covers the mechanical performance requirements of the 187 SERIES 1P POSITIVE LOCK(MARK-II)HOUSING.

The testing was performed between March 26, 2018 and March 29, 2018.

#### 1-3 Test Samples

The test samples were randomly selected from normal current production lots.

P/N	Description
1-176448-1	187 SERIES POSITIVE LOCK (MK II) TAB HSG. POS (W-W TYPE)
3-173974-1	187 SERIES 1Pos. POSITIVE LOCK(MARK-II)HOUSING
175179-1	187 SERIES POSITIVE LOCK MK-II TAB CONTACT W-W TYPE
170325-1	187 SERIES POSITIVE LOCK MARK II REC.

#### 1-4 Conclusion

The 187 SERIES 1P POSITIVE LOCK(MARK-II)HOUSING meets the mechanical performance requirements of Product Specification 108-5338

#### 1-5 Attachment

- 1) Requirements and Test Procedure
- 2) Test Result
- 3) Photograph of Test

# 1) Requirements and Test Procedure

501-61143

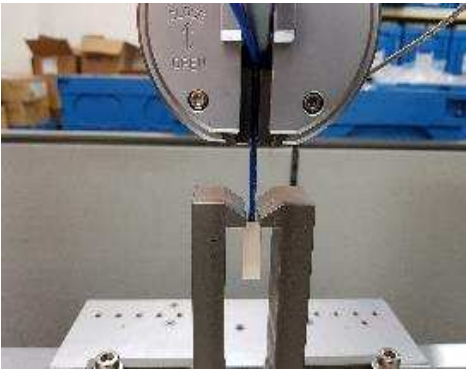


項目	試験項目	規格値	試験方法
2.5.3	コンタクト保持力 Contact retention force	5.0Kg 最小	コンタクトが装着されたハウジングを固定し電線を軸方向に引張り、コンタクトがハウジングから抜ける時の値を測定する。但し電線サイズ0.75mm <sup>2</sup> 以上とする。
2.5.5	コネクタ挿入力 Connector mating force	5.0Kg 以下	自由懸吊治具を使用し、毎分100mmの割合で操作しながら挿入するのに要する力を測定する。
2.5.5	コネクタ引抜力 Connector Un-mating force	0.6Kg~6.5Kg	ロッキング機構を働かせずに、毎分100mmの割合で操作しながら、嵌合したコネクタを引抜くに要する力を測定する。

## 2) Test Result

501-61143

NO	Test Items	Test Condition	Acceptance criteria		Unit	Test Result									Judgment
						Wire (AWG)	S1	S2	S3	S4	S5	Min.	Max.	Avg.	
1	Contact Retention Force	Initial	CAP	5.0kgf Min.	kgf	-	18.47	20.16	19.80	20.04	19.75	18.47	20.16	19.64	OK
			PLUG			-	17.77	16.62	17.53	17.09	16.97	16.62	17.77	17.20	OK
2	Connector Mating Force	Initial	5.0kgf Max.			-	2.02	2.27	2.51	2.32	2.15	2.02	2.51	2.25	OK
3	Connector Unmating Force	Initial	0.6 ~ 6.5kgf			-	2.14	2.76	2.32	2.61	3.02	2.14	3.02	2.57	OK

3) Photograph of Test

NO.	Test Items	Photograph	Remark	NO.	Test Items	Photograph	Remark
1	Contact Retention Force		-	4	-	-	-
2	Connector Mating Force		-	5	-	-	-
3	Connector Unmating Force		-	6	-	-	-