



Project Number: Mating-Unmating Basic Test Report	Tracking Code: 1165710_Report_Rev_1
Requested by: Corey Rose	Date: 6/13/2017
Part #: EBTM-6-12-2.0-S-VT-1-R-H/ EBTF-6-12-2.0-S-RA-1-R-H&EBTM-6-12-2.0-S-VT-1-L-G/ EBTF-6-12-2.0-S-RA-1-L-G EBTM-6-06-2.0-S-VT-1-L-E/ EBTF-6-06-2.0-S-RA-1-L-E&EBTM-4-06-2.0-S-VT-1-R-A/ EBTF-4-06-2.0-S-RA-1-R-A	
Part description: EBTM/EBTF	Tech: Tony Wagoner
Test Start: 6/5/2017	Test Completed: 6/7/2017



**MATING-UNMATING BASIC TEST REPORT**

**EBTM/EBTF**

**EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H  
EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G  
EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E  
EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A**

Tracking Code: 1165710_Report_Rev_1	Part #: EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A
Part description: EBTM/EBTF	

**REVISION HISTORY**

DATE	REV.NUM.	DESCRIPTION	ENG
6/13/2017	1	Initial Issue	KH

Tracking Code: 1165710_Report_Rev_1	Part #: EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A
Part description: EBTM/EBTF	

## **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: Mating-Unmating basic test. Please see test plan.

### **APPLICABLE DOCUMENTS**

Standards: 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) Either an automated cleaning procedure or an ultrasonic cleaning procedure may be used.
- 4) The automated procedure is used with aqueous compatible soldering materials.
- 5) Any additional preparation will be noted in the individual test sequences.
- 6) Solder Information: Lead Free

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 EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G  
 EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E  
 EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A

Part description: EBTM/EBTF

## FLOWCHARTS

### Mating/Unmating/Durability

<u>Group 1</u>	<u>Group 2</u>	<u>Group 3</u>	<u>Group 4</u>
EBTM-6-12-2.0-S-VT-1-R-H EBTF-6-12-2.0-S-RA-1-R-H 8 Assemblies	EBTM-6-12-2.0-S-VT-1-L-G EBTF-6-12-2.0-S-RA-1-L-G 8 Assemblies	EBTM-6-06-2.0-S-VT-1-L-E EBTF-6-06-2.0-S-RA-1-L-E 8 Assemblies	EBTM-4-06-2.0-S-VT-1-R-A EBTF-4-06-2.0-S-RA-1-R-A 8 Assemblies
Step	Step	Step	Step
Description	Description	Description	Description
1. Contact Gaps	1. Contact Gaps	1. Contact Gaps	1. Contact Gaps
2. Mating/Unmating Force (1)	2. Mating/Unmating Force (1)	2. Mating/Unmating Force (1)	2. Mating/Unmating Force (1)
3. Cycles Quantity = 25 Cycles	3. Cycles Quantity = 25 Cycles	3. Cycles Quantity = 25 Cycles	3. Cycles Quantity = 25 Cycles
4. Mating/Unmating Force (1)	4. Mating/Unmating Force (1)	4. Mating/Unmating Force (1)	4. Mating/Unmating Force (1)
5. Cycles Quantity = 25 Cycles	5. Cycles Quantity = 25 Cycles	5. Cycles Quantity = 25 Cycles	5. Cycles Quantity = 25 Cycles
6. Mating/Unmating Force (1)	6. Mating/Unmating Force (1)	6. Mating/Unmating Force (1)	6. Mating/Unmating Force (1)
7. Cycles Quantity = 25 Cycles	7. Cycles Quantity = 25 Cycles	7. Cycles Quantity = 25 Cycles	7. Cycles Quantity = 25 Cycles
8. Mating/Unmating Force (1)	8. Mating/Unmating Force (1)	8. Mating/Unmating Force (1)	8. Mating/Unmating Force (1)
9. Cycles Quantity = 25 Cycles	9. Cycles Quantity = 25 Cycles	9. Cycles Quantity = 25 Cycles	9. Cycles Quantity = 25 Cycles
10. Mating/Unmating Force (1)	10. Mating/Unmating Force (1)	10. Mating/Unmating Force (1)	10. Mating/Unmating Force (1)

(1) Mating/Unmating Force = EIA-364-13

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Part description: EBTM/EBTF	

### ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

#### **MATING/UNMATING:**

- 1) Reference document: EIA-364-13, *Mating and Unmating Forces Test Procedure for Electrical Connectors*.
- 2) The full insertion position was to within 0.003” to 0.004” of the plug bottoming out in the receptacle to prevent damage to the system under test.
- 3) One of the mating parts is secured to a floating X-Y table to prevent damage during cycling.

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Part description: EBTM/EBTF	

**RESULTS**

**Mating – Unmating Forces**

**Mating/Unmating Basic**

**Group 1---EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H**

- **Initial**
  - **Mating**
    - **Min** -----13.70 lbs
    - **Max** -----14.71 lbs
  - **Unmating**
    - **Min** ----- 7.32 lbs
    - **Max** ----- 7.83 lbs
- **After 25 Cycles**
  - **Mating**
    - **Min** -----14.15 lbs
    - **Max** -----15.92 lbs
  - **Unmating**
    - **Min** ----- 8.35 lbs
    - **Max** ----- 9.19 lbs
- **After 50 Cycles**
  - **Mating**
    - **Min** -----14.24 lbs
    - **Max** -----16.24 lbs
  - **Unmating**
    - **Min** ----- 8.74 lbs
    - **Max** ----- 9.47 lbs
- **After 75 Cycles**
  - **Mating**
    - **Min** -----13.93 lbs
    - **Max** -----16.28 lbs
  - **Unmating**
    - **Min** ----- 8.73 lbs
    - **Max** ----- 9.63 lbs
- **After 100 Cycles**
  - **Mating**
    - **Min** -----14.58 lbs
    - **Max** -----16.34 lbs
  - **Unmating**
    - **Min** ----- 9.01 lbs
    - **Max** ----- 9.78 lbs

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Part #: EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H  
EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G  
EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E  
EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A

Part description: EBTM/EBTF

## RESULTS Continued

### Mating/Unmating Basic

#### Group 2--- EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G

- **Initial**
  - **Mating**
    - **Min** -----13.40 lbs
    - **Max** -----14.48 lbs
  - **Unmating**
    - **Min** ----- 7.49 lbs
    - **Max** ----- 8.01 lbs
- **After 25 Cycles**
  - **Mating**
    - **Min** -----14.38 lbs
    - **Max** -----15.80 lbs
  - **Unmating**
    - **Min** ----- 8.93 lbs
    - **Max** ----- 9.38 lbs
- **After 50 Cycles**
  - **Mating**
    - **Min** -----14.49 lbs
    - **Max** -----15.64 lbs
  - **Unmating**
    - **Min** ----- 9.26 lbs
    - **Max** ----- 9.66 lbs
- **After 75 Cycles**
  - **Mating**
    - **Min** -----14.51 lbs
    - **Max** -----15.69 lbs
  - **Unmating**
    - **Min** ----- 9.47 lbs
    - **Max** ----- 9.82 lbs
- **After 100 Cycles**
  - **Mating**
    - **Min** -----14.48 lbs
    - **Max** -----15.77 lbs
  - **Unmating**
    - **Min** ----- 9.62 lbs
    - **Max** ----- 9.96 lbs

Tracking Code: 1165710\_Report\_Rev\_1

Part #: EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H  
EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G  
EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E  
EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A

Part description: EBTM/EBTF

## RESULTS Continued

### Mating/Unmating Basic

#### Group 3---EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E

- **Initial**
  - **Mating**
    - **Min** ----- 6.57 lbs
    - **Max** ----- 7.13 lbs
  - **Unmating**
    - **Min** ----- 3.54 lbs
    - **Max** ----- 4.05 lbs
- **After 25 Cycles**
  - **Mating**
    - **Min** ----- 6.92 lbs
    - **Max** ----- 7.91 lbs
  - **Unmating**
    - **Min** ----- 4.20 lbs
    - **Max** ----- 4.73 lbs
- **After 50 Cycles**
  - **Mating**
    - **Min** ----- 7.18 lbs
    - **Max** ----- 8.04 lbs
  - **Unmating**
    - **Min** ----- 4.39 lbs
    - **Max** ----- 4.88 lbs
- **After 75 Cycles**
  - **Mating**
    - **Min** ----- 7.17 lbs
    - **Max** ----- 7.92 lbs
  - **Unmating**
    - **Min** ----- 4.51 lbs
    - **Max** ----- 4.94 lbs
- **After 100 Cycles**
  - **Mating**
    - **Min** ----- 7.23 lbs
    - **Max** ----- 7.95 lbs
  - **Unmating**
    - **Min** ----- 4.58 lbs
    - **Max** ----- 5.00 lbs

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Part #: EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H  
EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G  
EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E  
EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A

Part description: EBTM/EBTF

## RESULTS Continued

### Mating/Unmating Basic

#### Group 4--- EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A

- **Initial**
  - **Mating**
    - **Min** ----- 4.64 lbs
    - **Max** ----- 5.22 lbs
  - **Unmating**
    - **Min** ----- 2.62 lbs
    - **Max** ----- 2.86 lbs
- **After 25 Cycles**
  - **Mating**
    - **Min** ----- 4.96 lbs
    - **Max** ----- 5.54 lbs
  - **Unmating**
    - **Min** ----- 3.19 lbs
    - **Max** ----- 3.36 lbs
- **After 50 Cycles**
  - **Mating**
    - **Min** ----- 4.89 lbs
    - **Max** ----- 5.58 lbs
  - **Unmating**
    - **Min** ----- 3.32 lbs
    - **Max** ----- 3.48 lbs
- **After 75 Cycles**
  - **Mating**
    - **Min** ----- 4.96 lbs
    - **Max** ----- 5.67 lbs
  - **Unmating**
    - **Min** ----- 3.39 lbs
    - **Max** ----- 3.53 lbs
- **After 100 Cycles**
  - **Mating**
    - **Min** ----- 5.02 lbs
    - **Max** ----- 5.71 lbs
  - **Unmating**
    - **Min** ----- 3.40 lbs
    - **Max** ----- 3.55 lbs

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Part description: EBTM/EBTF	

**DATA SUMMARIES**

**MATING/UNMATING:  
Mating/Unmating Basic**

**Group 1---EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H**

	Initial				25 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	60.95	13.70	32.54	7.32	62.94	14.15	37.13	8.35
Maximum	65.43	14.71	34.81	7.83	70.82	15.92	40.88	9.19
<b>Average</b>	63.47	<b>14.27</b>	33.38	<b>7.51</b>	66.70	<b>15.00</b>	38.95	<b>8.76</b>
St Dev	1.77	0.40	0.85	0.19	2.83	0.64	1.34	0.30
Count	8	8	8	8	8	8	8	8

  

	50 Cycles				75 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	63.34	14.24	38.86	8.74	61.96	13.93	38.85	8.73
Maximum	72.21	16.24	42.12	9.47	72.43	16.28	42.85	9.63
<b>Average</b>	67.20	<b>15.11</b>	40.32	<b>9.06</b>	67.47	<b>15.17</b>	41.24	<b>9.27</b>
St Dev	2.93	0.66	1.04	0.23	3.26	0.73	1.37	0.31
Count	8	8	8	8	8	8	8	8

  

	100 Cycles			
	Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	64.87	14.58	40.07	9.01
Maximum	72.66	16.34	43.52	9.78
<b>Average</b>	68.30	<b>15.36</b>	42.01	<b>9.44</b>
St Dev	2.68	0.60	1.25	0.28
Count	8	8	8	8

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Part description: EBTM/EBTF	

**DATA SUMMARIES Continued**

**Mating/Unmating Basic**

**Group 2--- EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G**

	Initial				After 25 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	59.61	13.40	33.29	7.49	63.95	14.38	39.71	8.93
Maximum	64.41	14.48	35.65	8.01	70.28	15.80	41.73	9.38
<b>Average</b>	62.71	<b>14.10</b>	34.58	<b>7.77</b>	66.98	<b>15.06</b>	40.65	<b>9.14</b>
St Dev	1.62	0.37	0.90	0.20	2.38	0.54	0.75	0.17
Count	8	8	8	8	8	8	8	8

  

	After 50 Cycles				After 75 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	64.43	14.49	41.18	9.26	64.52	14.51	42.12	9.47
Maximum	69.58	15.64	42.96	9.66	69.80	15.69	43.69	9.82
<b>Average</b>	67.12	<b>15.09</b>	42.13	<b>9.47</b>	67.25	<b>15.12</b>	42.86	<b>9.64</b>
St Dev	2.01	0.45	0.69	0.16	1.95	0.44	0.61	0.14
Count	8	8	8	8	8	8	8	8

  

	After 100 Cycles			
	Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	64.40	14.48	42.80	9.62
Maximum	70.14	15.77	44.28	9.96
<b>Average</b>	67.32	<b>15.13</b>	43.58	<b>9.80</b>
St Dev	2.00	0.45	0.48	0.11
Count	8	8	8	8

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Part description: EBTM/EBTF	

**DATA SUMMARIES Continued**

**Mating/Unmating Basic**

**Group 3--- EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E**

	Initial				After 25 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	29.21	6.57	15.76	3.54	30.79	6.92	18.66	4.20
Maximum	31.70	7.13	18.03	4.05	35.20	7.91	21.03	4.73
<b>Average</b>	30.57	<b>6.87</b>	17.03	<b>3.83</b>	33.13	<b>7.45</b>	19.94	<b>4.48</b>
St Dev	1.03	0.23	0.81	0.18	1.55	0.35	0.84	0.19
Count	8	8	8	8	8	8	8	8

  

	After 50 Cycles				After 75 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	31.93	7.18	19.54	4.39	31.90	7.17	20.08	4.51
Maximum	35.77	8.04	21.72	4.88	35.24	7.92	21.96	4.94
<b>Average</b>	33.77	<b>7.59</b>	20.72	<b>4.66</b>	33.87	<b>7.61</b>	21.15	<b>4.75</b>
St Dev	1.28	0.29	0.85	0.19	1.11	0.25	0.75	0.17
Count	8	8	8	8	8	8	8	8

  

	After 100 Cycles			
	Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	32.17	7.23	20.35	4.58
Maximum	35.34	7.95	22.26	5.00
<b>Average</b>	33.76	<b>7.59</b>	21.43	<b>4.82</b>
St Dev	1.14	0.26	0.77	0.17
Count	8	8	8	8

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Part description: EBTM/EBTF	

**DATA SUMMARIES Continued**

**Mating/Unmating Basic**

**Group 4---EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A**

	Initial				After 25 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	20.64	4.64	11.67	2.62	22.06	4.96	14.18	3.19
Maximum	23.21	5.22	12.70	2.86	24.63	5.54	14.94	3.36
<b>Average</b>	21.85	<b>4.91</b>	12.16	<b>2.73</b>	23.05	<b>5.18</b>	14.56	<b>3.27</b>
St Dev	0.77	0.17	0.34	0.08	0.86	0.19	0.24	0.05
Count	8	8	8	8	8	8	8	8

  

	After 50 Cycles				After 75 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	21.75	4.89	14.76	3.32	22.08	4.96	15.07	3.39
Maximum	24.84	5.58	15.46	3.48	25.23	5.67	15.71	3.53
<b>Average</b>	23.09	<b>5.19</b>	15.07	<b>3.39</b>	23.25	<b>5.23</b>	15.37	<b>3.46</b>
St Dev	0.99	0.22	0.24	0.05	1.05	0.24	0.20	0.05
Count	8	8	8	8	8	8	8	8

  

	After 100 Cycles			
	Mating		Unmating	
	Newton's	Force (Lbs)	Newton's	Force (Lbs)
Minimum	22.33	5.02	15.13	3.40
Maximum	25.41	5.71	15.78	3.55
<b>Average</b>	23.43	<b>5.27</b>	15.54	<b>3.49</b>
St Dev	0.99	0.22	0.21	0.05
Count	8	8	8	8

Tracking Code: 1165710_Report_Rev_1	Part #: EBTM-6-12-2.0-S-VT-1-R-H/EBTF-6-12-2.0-S-RA-1-R-H EBTM-6-12-2.0-S-VT-1-L-G/EBTF-6-12-2.0-S-RA-1-L-G EBTM-6-06-2.0-S-VT-1-L-E/EBTF-6-06-2.0-S-RA-1-L-E EBTM-4-06-2.0-S-VT-1-R-A/EBTF-4-06-2.0-S-RA-1-R-A
Part description: EBTM/EBTF	

**EQUIPMENT AND CALIBRATION SCHEDULES**

**Equipment #:** TCT-07  
**Description:** Automated Test Stand  
**Manufacturer:** Chatillon/Lloyd  
**Model:** LF Plus  
**Serial #:** LF1310  
**Accuracy:** See Manual  
... Last Cal: 05/23/2017, Next Cal: 05/23/2018