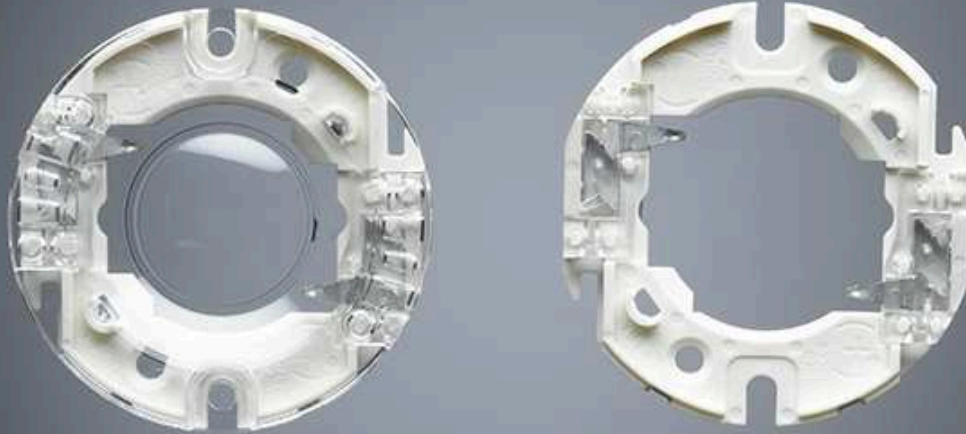




# PRODUCT SPECIFICATION

## PRODUCT SPECIFICATION MOLEX LED HOLDER FOR BRIDGELUX ES ARRAY



|  |   |   |                                   |
|--|---|---|-----------------------------------|
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| DOCUMENT NUMBER:<br><b>PS-180150-000</b> | CREATED / REVISED BY:<br><b>C. Carranza</b>                               | CHECKED BY:<br><b>D. Achammer</b>   | APPROVED BY:<br><b>D. McGowan</b> |





# PRODUCT SPECIFICATION

## 4.0 RATINGS

### 4.1 VOLTAGE

600 Volts DC maximum

### 4.2 CURRENT

2.5 Amp maximum continuous current  
3.5 Amp maximum peak current (max. 10% duty cycle)

### 4.3 TEMPERATURE

Operating: -40°C to +85°C (Recommended), +105°C (MAX.)  
Non-operating: -40°C to +105°C

### 4.4 DURABILITY

5 cycles mate/un-mate (wire trap interface)

## 5.0 QUALIFICATION

Laboratory condition and sample selection are in accordance with EIA-364-1000.

|  |   |   |                                   |
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# PRODUCT SPECIFICATION

## 6.0 PERFORMANCE

### 6.1 MECHANICAL PERFORMANCE

| ITEM                      | TEST CONDITION   | REQUIREMENT                  |
|---------------------------|--|------------------------------|
| CLEAR COVER RETENTION     | APPLY STATIC LOAD UNTIL CLEAR COVER SEPARATES FROM HOLDER                              | MIN. 5 N<br>VERIFY NO DAMAGE |
| WIRE TRAP COVER RETENTION | APPLY STATIC LOAD UNTIL COVER SEPARATES FROM HOLDER                                    | MIN. 20 N                    |
| WIRE RETENTION            | APPLY STATIC LOAD UNTIL WIRE SEPARATES FROM HOLDER                                     | MIN. 10 N                    |
| DROP TEST                 | DROP 3 TIMES (3 DIRECTIONS) FROM HEIGHT OF 1 METER ONTO CONCRETE OR EQUIVALENT SURFACE | NO DAMAGE                    |

|  |   |   |                                   |
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# PRODUCT SPECIFICATION

## 6.2 ENVIRONMENTAL PERFORMANCE

| ITEM   | TEST CONDITION  | REQUIREMENT  |
|--|---|--|
| TEMPERATURE LIFE<br>(EIA-364-17)                                     | Fasten Holder to Heatsink with LED.<br>Insert Wires in Wire Traps.<br>Expose 180 hours at 105°C   | Max. 20 mohm Contact Resistance Change per Interface |
| TEMPERATURE SHOCK/CYCLIC TEMPERATURE & HUMIDITY<br>(EIA-364-23 & 31) | Fasten Holder to Heatsink with LED.<br>Insert Wires in Wire Traps.<br>Expose to -55/85°C, 30 Minute Dwell, 10 Cycles<br>Expose to Thermal Cycle 25°C/80%RH to 65°C/50%RH.<br>0.5 Hour Ramp, 1.0 Hour Dwell, 24 Cycles | Max. 20 mohm Contact Resistance Change per Interface |
| VIBRATION<br>(EIA-364-28)  | Fasten Holder to Heatsink with LED.<br>Insert Wires in Wire Traps.<br>Expose to Random 3.1G Vibration, 15 Minutes per Each Axis (X, Y, & Z)   | Max. 20 mohm Contact Resistance Change per Interface |
| THERMAL CYCLING<br>(EIA-364-1000)                                    | Fasten Holder to Heatsink with LED.<br>Insert Wires in Wire Traps.<br>Expose to +15/+85°C, 30 Minute Dwell, 500 Cycles  | Max. 20 mohm Contact Resistance Change per Interface |
| DUST EXPOSURE<br>(EIA-364-91)  | Fasten Holder to Heatsink with LED.<br>Insert Wires in Wire Traps.<br>Expose to Dust per EIA-364-91 Table A.1 (Benign).<br>1 Hr. @ 360 cfm (unmated)  | Max. 20 mohm Contact Resistance Change per Interface |

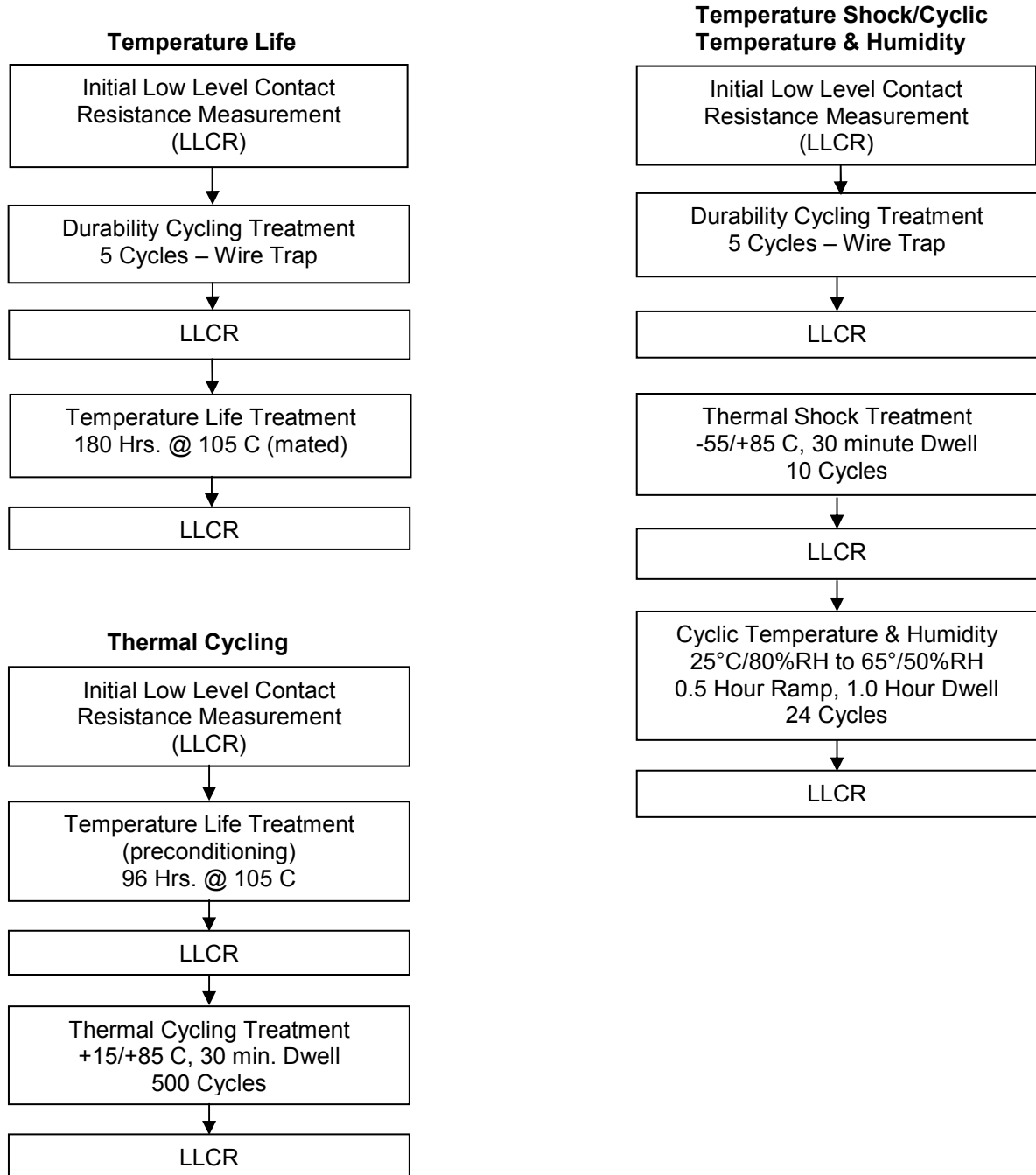
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# PRODUCT SPECIFICATION

## 7.0 TEST SEQUENCE

### 7.1 Reliability Test Sequences:



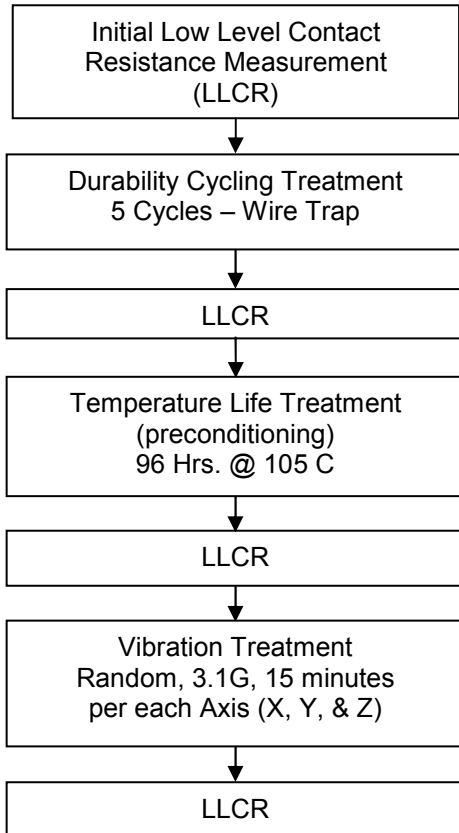
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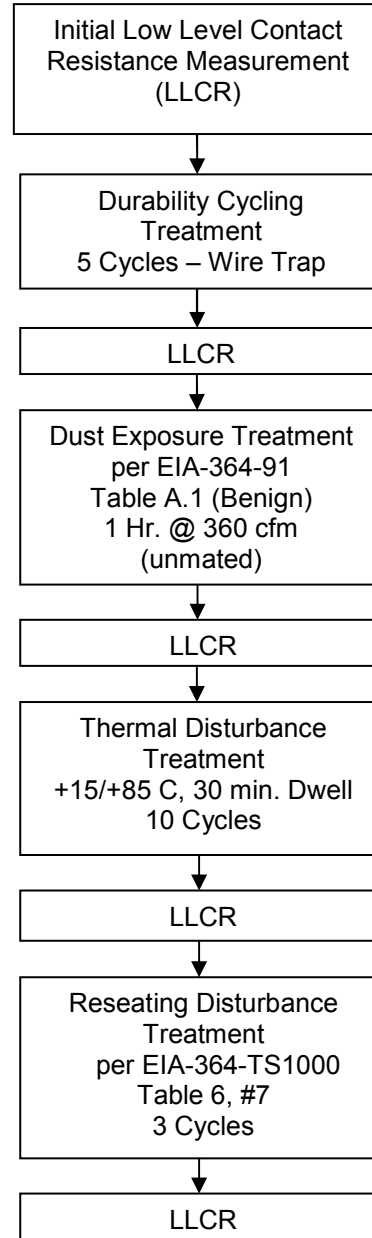
# PRODUCT SPECIFICATION

## 7.1 Reliability Test Sequences (continued):

### Vibration



### Dust Exposure



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