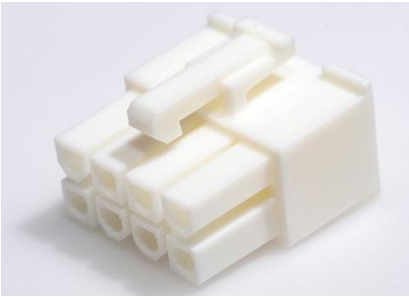
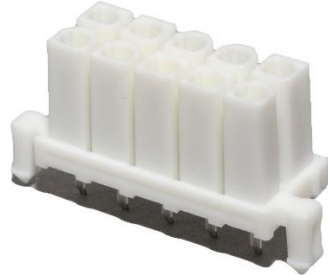


# MINI-FIT JR. COMPLIANT PIN INTERFACE (CPI)

## MINI-FIT JR AND MINI-FIT JR PLUS HCS WIRE TO BOARD & BOARD TO BOARD




Minifit Jr Female Terminal	Minifit Plus HCS Female Terminal
	
Series: <a href="#">5556</a>	Series: <a href="#">45750</a>

Receptacle (dual row)	BMI Receptacle Header (dual row)
	
Series: <a href="#">5557</a>	Series: <a href="#">42385</a>

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<b>BMI Receptacle (dual row)</b>	<b>BMI/CPI Vertical Header</b>
	
Series: <a href="#">42474</a>	Series: <a href="#">43879</a>
<b>CPI Vertical Header</b>	
	
Series: <a href="#">46611</a>	

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## 1.0 SCOPE

This specification covers the 4.20 mm / (.165 in.) centerline (pitch) Mini-Fit Jr. Compliant Pin Interface (Mini-Fit CPI™) dual row connector system in wire to board and board to board applications.

## 2.0 PRODUCT DESCRIPTION

### 2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER	Primary Product Specification
Minifit Jr Female Terminal	<a href="#">5556</a>	<a href="#">PS-5556-001</a>
Minifit Plus HCS Female Terminals	<a href="#">45750</a>	<a href="#">PS-45750-001</a>
Receptacle (dual row)	<a href="#">5557</a>	<a href="#">PS-5556-001</a>
BMI Receptacle Header (dual row)	<a href="#">42385</a>	<a href="#">PS-5556-002</a>
BMI Receptacle (dual row)	<a href="#">42474</a>	<a href="#">PS-5556-002</a>
BMI CPI Vertical Header	<a href="#">43879</a>	<a href="#">PS-43879-001</a>
CPI Vertical Header	<a href="#">46611</a>	<a href="#">PS-43879-001</a>

### 2.2 DIMENSIONS, MATERIALS, PLATINGS

See the appropriate sales drawings for the information on dimensions, materials, platings and markings.

### 2.3 ENVIRONMENTAL CONFORMANCE

To find product compliance information:

- [Go to molex.com](#)
- Enter the part number in the search field.
- At the bottom of the page go to “Environmental” to see compliance status.

### 2.4 SAFETY AGENCY LISTINGS

UL File #E29179  
CSA Certificate #LR19980

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### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

#### 3.1 MOLEX DOCUMENTS

- [Mini-Fit Jr. Product Specification PS-5556-001](#)
- [Mini-Fit Jr. Plus HCS Product Specification PS-45750-001](#)
- [Molex Quality Crimping Handbook Order No. 63800-0029](#)
- [Molex Solderability Specification SMES-152](#)
- [Molex Heat Resistance Specification AS-40000-5013](#)
- [Molex Moisture Technical Advisory AS-45499-001](#)
- [Molex Package Handling Specification 454990100-PK](#)
- ATS – Application Tooling Specification\*

\*Application Tooling Specification for terminals is not provided in this document. ATS for terminals can be available from respective terminal part number page in Molex.com

#### 3.2 INDUSTRY DOCUMENTS

- EIA-364-1000
- UL-60950-1
- CSA-STD. C22.2 NO. 182.3-M1987

### 4.0 ELECTRICAL PERFORMANCE RATINGS

#### 4.1 VOLTAGE

600 Volts AC (RMS) / DC

#### 4.2 APPLICABLE WIRES

See Primary Product Specification (Section 2.1) applicable to mating receptacle.

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## 4.3 CURRENT RATINGS\*\*

5556 Mini fit Jr Brass or Phosphor Bronze terminals with Tin or Gold Plating

	Ckt. Size / Wire Awg.	2	4 - 6	7 - 10	12 - 24
Maximum Rated Current - Wire to Board (Amperes)	16 Awg	8	7	6	5
	18 Awg	8	7	6	5
	20 Awg	6	5	4	4
	22 Awg	4	3	3	3
	24 Awg	3	2	2	2
	26 Awg	2	1	1	1
	28 Awg	1	1	1	1
Board to Board		8	7	6	6

45750 Mini fit Plus HCS terminals with Tin or Gold Plating

	Ckt. Size / Wire Awg	2	4	6, 8	10, 12	14, 16, 18	20, 22, 24
Maximum Rated Current - Wire to Board (Amperes)	16 Awg	11.5	9.5	9	8	8	7.5
	18 Awg	10	8.5	7.5	7	7	6.5
	20 Awg	9	8	7	6.5	6	5.5

**\*\*Current rating is application dependent and may be affected by the wire rating such as listed in UL-60950-1. Each application should be evaluated by the end user for compliance to specific safety agency requirements. The ratings listed in the chart above are per Molex test method based on a 30°C maximum temperature rise over ambient temperature and are provided as a guideline. Appropriate de-rating is required based on circuit size, ambient temperature, copper trace size on the PCB, gross heating from adjacent modules/components and other factors that influence connector performance. Wire size, insulation thickness, stranding, tin coated or bare copper, wire length & crimp quality are other factors that influence current rating.**

Note: The Mini-Fit CPI™ connector system was not designed or tested for either current sharing or hot plugging (mating and unmating of live circuits). Use of this connector system in these types of applications is not recommended and is not within the scope of this product specification.

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## 4.4 TEMPERATURE

Operating Temperature Range\*: - 40°C to + 105°C  
 Non-Operating Temperature Range: - 40°C to + 105°C

Field Temperature and Field Life: 65° C for 10 years (based on EIA-364-1000, table 8)\*

Note: Temperature life test duration (section 6.3 item 3 and item 4) is based on the assumption that the contact spends its entire life at the rated field maximum temperature (based on EIA-364-1000, table 8)

\*Temperature values include 30°C terminal temperature rise at maximum rated current.

## 4.5 DURABILITY

Mating Terminal Series	Terminal Plating	Number of Cycles
5556	Tin or Gold	30
45750	Tin	100
	Gold	250

*As tested in accordance with EIA-364-1000 test method (see section 6.2 item 10 & item 11 of this specification). Durability per EIA-364-09*

## 5.0 QUALIFICATION

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

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## 6.0 PERFORMANCE

### 6.1 ELECTRICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.1.1	Initial Contact Resistance (low level)	Mate connectors, measure by dry circuit, 20 mV max., 100 mA. Wire resistance shall be removed from the measured value.	10 mΩ max.
6.1.2	Insulation Resistance	Mate connectors, apply 500V AC for 1 minute adjacent terminal or ground.	1000 MΩ min.
6.1.3	Dielectric Strength	Mate connectors, apply 1500V AC for 1 minute between adjacent terminal or ground.	No breakdown.
6.1.4	Compliant Pin Interface Resistance	Insert individual Compliant Pin terminal into printed circuit board.	1.0 mΩ max.
6.1.5	Temp. Rise & Current Cycling	Mate the connectors and measure the temperature rise at the rated current for 96 hrs., 45 minutes ON and 15 minutes OFF for 240 hrs., and an additional 96 hrs. of steady-state current.	Max. Temp. Rise = 30 °C above ambient.

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## 6.2 MECHANICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.1	Contact Insertion and Withdrawal for 5556 terminals	Insert and withdraw a contact at a speed rate of 25± 6 mm / Minute	Max. Insertion = 1.5 Kg. Min. Withdrawal = .01 Kg.
6.2.2	Crimp Terminal Insertion Force	Insert the crimped terminal into the housing	Max. Insertion = 1.5 Kg
6.2.3	Crimp Terminal Retention Force	Apply axial pull out force at a speed rate of 25± 6 mm/minute on the terminal inserted in the housing.	Min. Retention = 3.0 Kg
6.2.4	Header Terminal Retention Force	Apply axial pull out force at a speed rate of 25± 6 mm / minute on the terminal assembled in the housing.	Min. Retention = 1.0 Kg
6.2.5	Wire Pull Out Force	Mount the crimped terminal, apply an axial pull out force on the wire at a speed rate of 25± 6 mm / minute.	16 Awg = 7.0 Kg Min. 18 Awg = 7.0 Kg Min. 20 Awg = 6.0 Kg Min. 22 Awg = 4.0 Kg Min. 24 Awg = 3.0 Kg Min. 26 Awg = 2.0 Kg Min. 28 Awg = 1.0 Kg Min.
6.2.6	Normal Force for 5556 terminals	Apply a perpendicular force simultaneously to each beam to desired deflection at a speed rate of 25± 6 mm / minute.	150 g min.
6.2.7	Normal Force for 45750 Plus HCS	Apply a perpendicular force simultaneously to each beam to desired deflection at a speed rate of 25± 6 mm / minute.	360 g min.
6.2.8	Compliant Pin Insertion and Retention Force	Insert Compliant Pin terminal at a speed rate of 25± 6 mm / minute into printed circuit board.	Insertion = 20 Kg max. Withdrawal = 2 Kg min.
6.2.9	Panel Insertion & Withdrawal	Insert and withdraw a connector at a speed rate of 25± 6 mm / minute	Insertion = 23 Kg max. Withdrawal = 12 Kg min.
6.2.10	Durability for 5556 terminals	Insert and withdraw connectors (30 times) at a maximum rate of 10 cycles per minute prior to environmental tests.	Contact Res. Change = 20 mΩ max.
6.2.11	Durability for 45750 terminals*	Per EIA-364-09C, mate connectors 100 cycles for tin plated product, 250 cycles for gold plated product at a maximum rate of 500 cycles per hour.	10 mΩ Max. chg. from Initial; Visual: No Damage

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## 6.2 MECHANICAL PERFORMANCE CONTINUED

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.12	Vibration for 5556 terminals	Amplitude: 1.50 mm peak to peak Sweep: 10-50-10 Hz in one minute Duration: 2 hours in each X-Y-Z axis.	Contact Res. Change = 20 MΩ max. Discontinuity not greater than 1 microsecond.
6.2.13	Vibration (Random) for 45750 terminals	EIA 364-28: Mate connectors and vibrate per, test condition VII, Letter D. 15 minutes in each axis	10 mΩ Max. chg. from Initial; Discontinuity < 1 microsecond
6.2.14	Mechanical Shock with 5556 terminals	50 G's with three saw tooth wave form shocks in each X-Y-Z axis	Contact Res. Change = 20 mΩ max. Discontinuity not greater than 1 μsecond

\* Durability ratings established as tested per Durability Test Procedures described by EIA-364-09C and meet requirements for low level contact resistance and DWV as prescribed per EIA-364-1000 Test Sequence Group 7.

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## 6.3 ENVIRONMENTAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.3.1	Cold Resistance with 5556 terminals	-40± -3 °C for 96 hrs.	Appearance: No damage Contact Res. Change = 20 mΩ max.
6.3.2	Thermal Shock	Mate connectors, expose to 10 cycles of: -55 + 0-3 °C for 30 minutes +105 ± 10 °C for 5 minutes max.	Appearance: No damage Contact Res. Change = 20 mΩ max.
6.3.3	Thermal Aging with 5556 terminals	Mate connectors, expose to 96 hours at 105 ± 2 °C	Appearance: No damage Contact Res. Change = 10 mΩ max.
6.3.4	Thermal Aging with 45750 terminals	Mate connectors, expose to 240 hours at 105 ± 2 °C	Appearance: No damage Contact Res. Change = 10 mΩ max.
6.3.5	Humidity (Steady State) with 5556 terminals	Mate connectors, expose to a temperature of 60 ± 2 °C with a relative humidity of 90% to 95% for 96 hours.	Appearance: No damage Contact Res. Change = 20 mΩ max. Dielectric withstanding voltage: No breakdown Insulation res. 1000 MΩ min
6.3.6	Immunity to Fretting Corrosion (thermal cycling)	Mate connectors, expose to 500 cycles with a max. transition time of 5 minutes between extremes. +25 ± 10 °C for 30 minutes +70 + 3/-0 °C for 30 minutes	Appearance: No damage Contact Res. Change: 20 mΩ max.

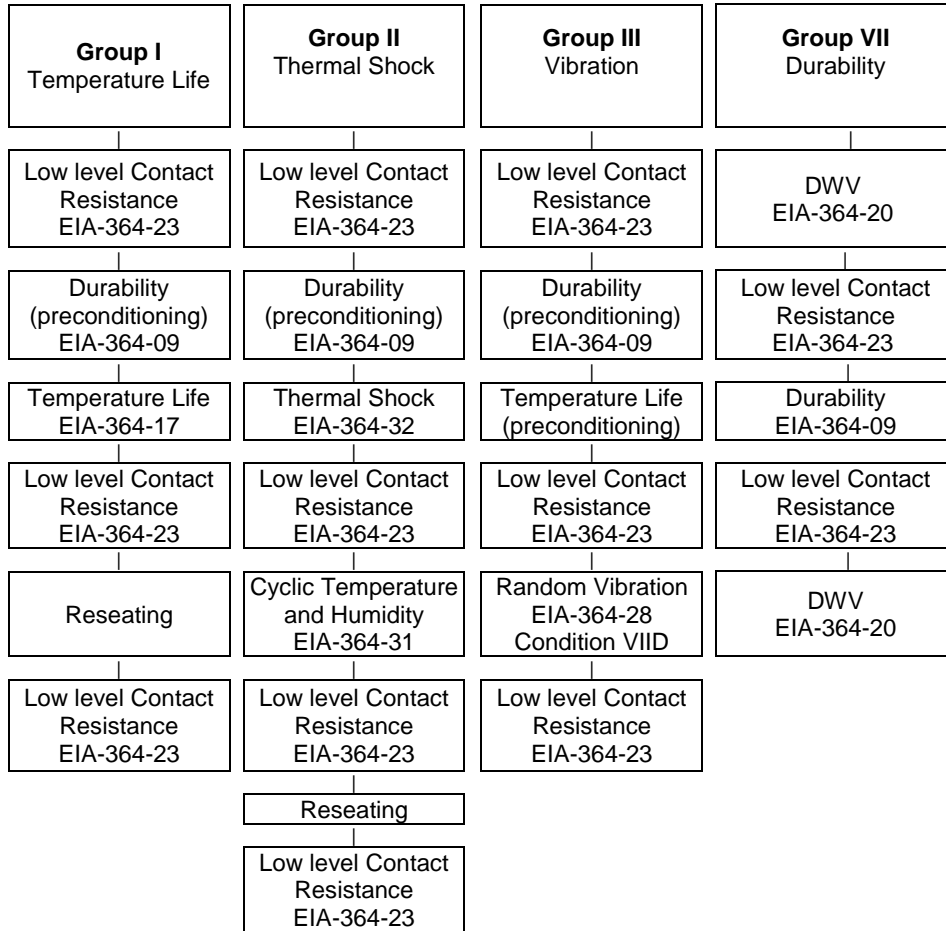
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**7.0 TEST SEQUENCE**

Reliability Test Sequences Per EIA-364-1000



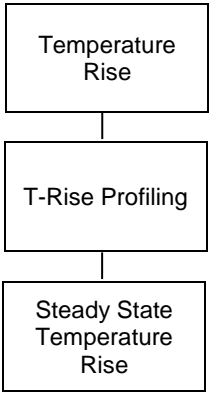
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**Individual Tests**

- Contact Insertion and withdrawal
- Crimp Terminal Insertion Force
- Wire Pullout Force
- Crimp Terminal Retention Force
- Header Terminal Retention Force
- Normal Force
- Compliant Pin Insertion and Retention Force
- Panel Insertion and Withdrawal



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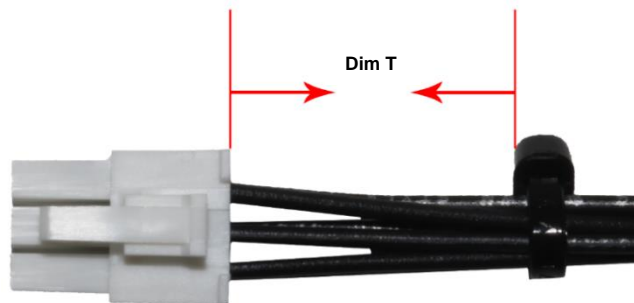
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## 8.0 PACKAGING

Parts shall be packaging to protect the parts from damage during standard shipping, storage, and handling. Refer Molex.com specific part number webpage to get the exact packaging document for that item.

## 9.0 CABLE TIE AND / OR TWIST TIE LOCATION

CKT Size	Dim T Min.
ALL	See <i>Primary Product Specification</i> for mating receptacle (Section 2.1)



The “T” dimension defines a “free” length of wire, or a length of wire that is not subject to significant bias by external factors such as a wire tie, wire twisting, or other means of bending or deforming of the wires that repositions them from their natural relaxed state or location where they enter the housing. Wires are to be dressed in such a manner to allow the terminals to float freely in the pocket. This dimension is general recommendation and may need to be adjusted for different wire gauges and wire type and insulation thickness and insulation material.

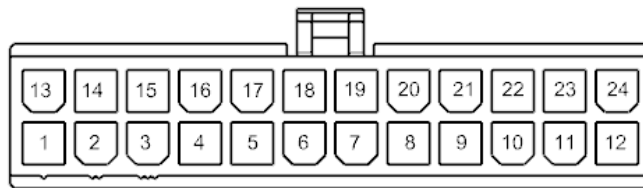
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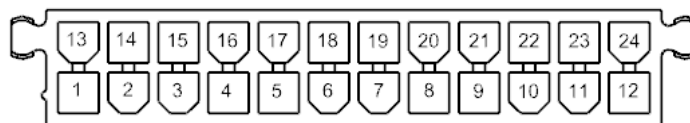
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## 10.0 POLARIZATION AND KEYING OPTIONS

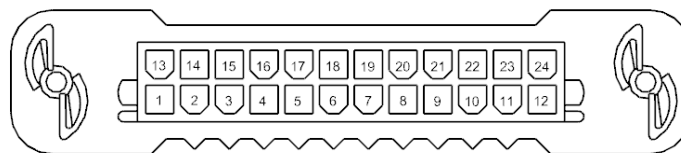
### 10.1 Dual Row Receptacle (Series: [5557](#))



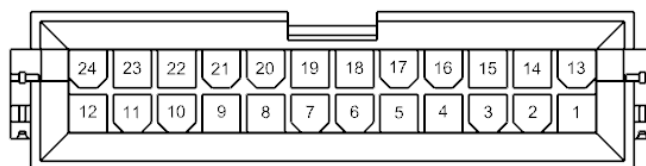
### 10.2 Dual Row BMI Receptacle Header (Series: [42385](#))



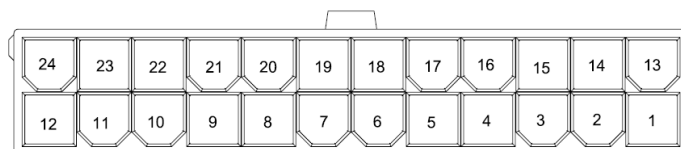
### 10.3 Dual Row BMI Receptacle (Series: [42474](#))



### 10.4 BMI CPI Vertical Header (Series: [43879](#))



### 10.5 CPI Vertical Header (Series: [46611](#))



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