


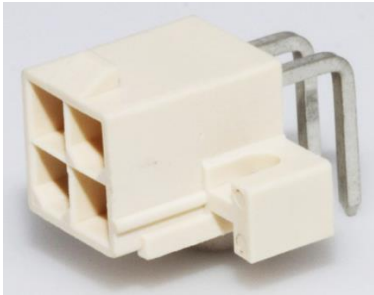


# MINI-FIT JR. WIRE TO BOARD CONNECTOR SYSTEM

Receptacle (Dual row)	Female Crimp Terminal
	
Series: <a href="#">5557</a>	Series: <a href="#">5556</a>

Right Angle Header w/o Mounting Flanges	Right Angle Header with Mounting Flanges
	
Series: <a href="#">87427</a>	Series: <a href="#">87427</a>

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<b>PS-87427-0001</b>	<b>PS</b>	<b>001</b>	<b>MBN02</b>	<b>DSTEIER</b>	<b>FSMITH</b>	
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**Vertical Header**



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## 1.0 SCOPE

This specification covers the 4.2 mm centerline tin plated Mini-Fit Jr connector series in wire-to-board configurations with header housings molded from Nylon 4/6, mated to crimp terminals accepting 16 to 28 AWG stranded wire.

## 2.0 PRODUCT DESCRIPTION

### 2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER	Primary Product Specification
Receptacle, Mini-Fit Jr. Series	<a href="#">5557</a>	<a href="#">PS-5556-001</a>
Female Crimp Terminal	<a href="#">5556</a>	<a href="#">PS-5556-001</a>
Mini-Fit Jr. RA Header w/o Mounting Flanges	<a href="#">87427</a> -**0*	<a href="#">PS-87427-0001</a>
Mini-Fit Jr. RA Header with Mounting Flanges	<a href="#">87427</a> -**1*	<a href="#">PS-87427-0001</a>
Mini-Fit Jr. Vertical Header	<a href="#">87427</a> -**4*	<a href="#">PS-87427-0001</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 #LR1998

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### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

#### 3.1 MOLEX DOCUMENTS

[Mini-Fit Jr. Connector System Test summary TS-5556-002](#)  
[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 File: E29179  
 CSA-STD. C22.2 NO. 182.3-M1987

### 4.0 ELECTRICAL PERFORMANCE RATINGS

#### 4.1 VOLTAGE

600 Volts AC (RMS) (or 600 Volts DC)

#### 4.2 APPLICABLE WIRES

See terminal series *Primary Product Specification* in Section 2.1.

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### 4.3 CURRENT RATINGS

See mating terminal series *Primary Product Specification* in Section 2.1.

### 4.4 TEMPERATURE<sup>1</sup>

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

Field Temperature and Field Life\*: 65 °C for 3 years

Note: Temperature life test duration (section 6.3 item 1) and ratings are 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

Plating Type	Number of Cycles
Tin Plated	30
Gold Plated	30

*As tested in accordance with EIA-364-1000 test method (see section 6.2 item 9 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.

<sup>1</sup> Temperature ratings apply to 87427 headers *only*. See mating terminal series *Primary Product Specification* in Section 2.1 for mating part ratings.

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## 6.0 PERFORMANCE

### 6.1 ELECTRICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.1.1	Contact Resistance	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. Wire resistance shall be removed from the measured value.	10 mΩ Max (Initial)
6.1.2	Insulation Resistance	Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 MΩ Min
6.1.3	Dielectric Withstanding Voltage	Mate connectors: apply a voltage of 2200 VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown; current leakage < 5 mA
6.1.4	Temperature Rise	See mating terminal series <i>Primary Product Specification</i> in Section 2.1	

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## 6.2 MECHANICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT						
6.2.1	Connector Mate and Unmating Forces	Mate and unmate connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	See chart in Section 10.0						
6.2.2	Wire Pullout Force (Axial)	See mating terminal series <b>Primary Product Specification</b> in Section 2.1							
6.2.3	Terminal Insertion Forces	See mating terminal series <b>Primary Product Specification</b> in Section 2.1							
6.2.4	Terminal Retention Force (in Housing)	See mating terminal series <b>Primary Product Specification</b> in Section 2.1							
6.2.5	Pin Retention Force (in Housing)	Axial push force at the speed rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	1.0 kgf Min retention force						
6.2.6	Thumb latch Operation Force in Housing	See mating receptacle series <b>Primary Product Specification</b> in Section 2.1							
6.2.7	Thumb latch Yield Strength	See mating receptacle series <b>Primary Product Specification</b> in Section 2.1							
6.2.8	Normal Force	See mating terminal series <b>Primary Product Specification</b> in Section 2.1							
6.2.9	Durability	When mated up to 30 cycles repeatedly at a rate of 10 cycles per minute.	<table border="1"> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM*</td> </tr> </table> *Change from initial	Contact Resistance	20 mΩ MAXIMUM*				
Contact Resistance	20 mΩ MAXIMUM*								
6.2.10	Shock (Mechanical)	Mate connectors and shock at 50 g's with three saw tooth wave form shocks in the X,Y,Z axes.	<table border="1"> <tr> <td>Appearance</td> <td>No Damage</td> </tr> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM *</td> </tr> <tr> <td>Discontinuity</td> <td>&lt; 1 microsecond</td> </tr> </table>	Appearance	No Damage	Contact Resistance	20 mΩ MAXIMUM *	Discontinuity	< 1 microsecond
Appearance	No Damage								
Contact Resistance	20 mΩ MAXIMUM *								
Discontinuity	< 1 microsecond								
6.2.11	Vibration	Amplitude: 1.5 mm peak to peak Sweep: 10-55-10 Hz in one minute Duration: 2 hours in each X-Y-Z axis	<table border="1"> <tr> <td>Appearance</td> <td>No Damage</td> </tr> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM *</td> </tr> <tr> <td>Discontinuity</td> <td>1 usec Max.</td> </tr> </table>	Appearance	No Damage	Contact Resistance	20 mΩ MAXIMUM *	Discontinuity	1 usec Max.
Appearance	No Damage								
Contact Resistance	20 mΩ MAXIMUM *								
Discontinuity	1 usec Max.								

\*Change from initial

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## 6.3 ENVIRONMENTAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT				
6.3.1	Thermal Aging	Mate connectors: Duration: 96 hours; Temperature: 105 ± 2 °C	<table border="1"> <tr> <td>Appearance</td> <td>No Damage</td> </tr> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM *</td> </tr> </table>	Appearance	No Damage	Contact Resistance	20 mΩ MAXIMUM *
Appearance	No Damage						
Contact Resistance	20 mΩ MAXIMUM *						
6.3.2	Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3 °C	<table border="1"> <tr> <td>Appearance</td> <td>No Damage</td> </tr> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM *</td> </tr> </table>	Appearance	No Damage	Contact Resistance	20 mΩ MAXIMUM *
Appearance	No Damage						
Contact Resistance	20 mΩ MAXIMUM *						
6.3.3	Temperature Cycling	5 Cycles: a) -55 °C, 30 minutes b) +105 °C, 30 minutes	<table border="1"> <tr> <td>Appearance</td> <td>No Damage</td> </tr> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM *</td> </tr> </table>	Appearance	No Damage	Contact Resistance	20 mΩ MAXIMUM *
Appearance	No Damage						
Contact Resistance	20 mΩ MAXIMUM *						
6.3.4	Humidity (Steady State)	Mate connectors: expose to a temperature of 60 ± 2 °C with a relative humidity of 90-95% for 96 hours. Note: Remove surface moisture and air dry for 1 hour prior to measurements.	20 mΩ MAXIMUM * (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 1500 VAC & Insulation Resistance: 1000 MΩ MINIMUM & Visual: No Damage				
6.3.5	Mixed Flowing Gas	EIA-364-65 with class IIa gas concentrations (30µ" gold plated only)	<table border="1"> <tr> <td>Appearance</td> <td>No Damage</td> </tr> <tr> <td>Contact Resistance</td> <td>20 mΩ MAXIMUM *</td> </tr> </table>	Appearance	No Damage	Contact Resistance	20 mΩ MAXIMUM *
Appearance	No Damage						
Contact Resistance	20 mΩ MAXIMUM *						
6.3.6	Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)				
6.3.7	Wave Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 260 ± 5 °C Per ES-40000-5013	Visual: No Damage to insulator material				
6.3.8	Reflow Solder Resistance	Convection reflow solder process 235 °C Max per ES-40000-5013 (see note 1 in section 8.1)	Visual: No Damage				

\*Change from initial

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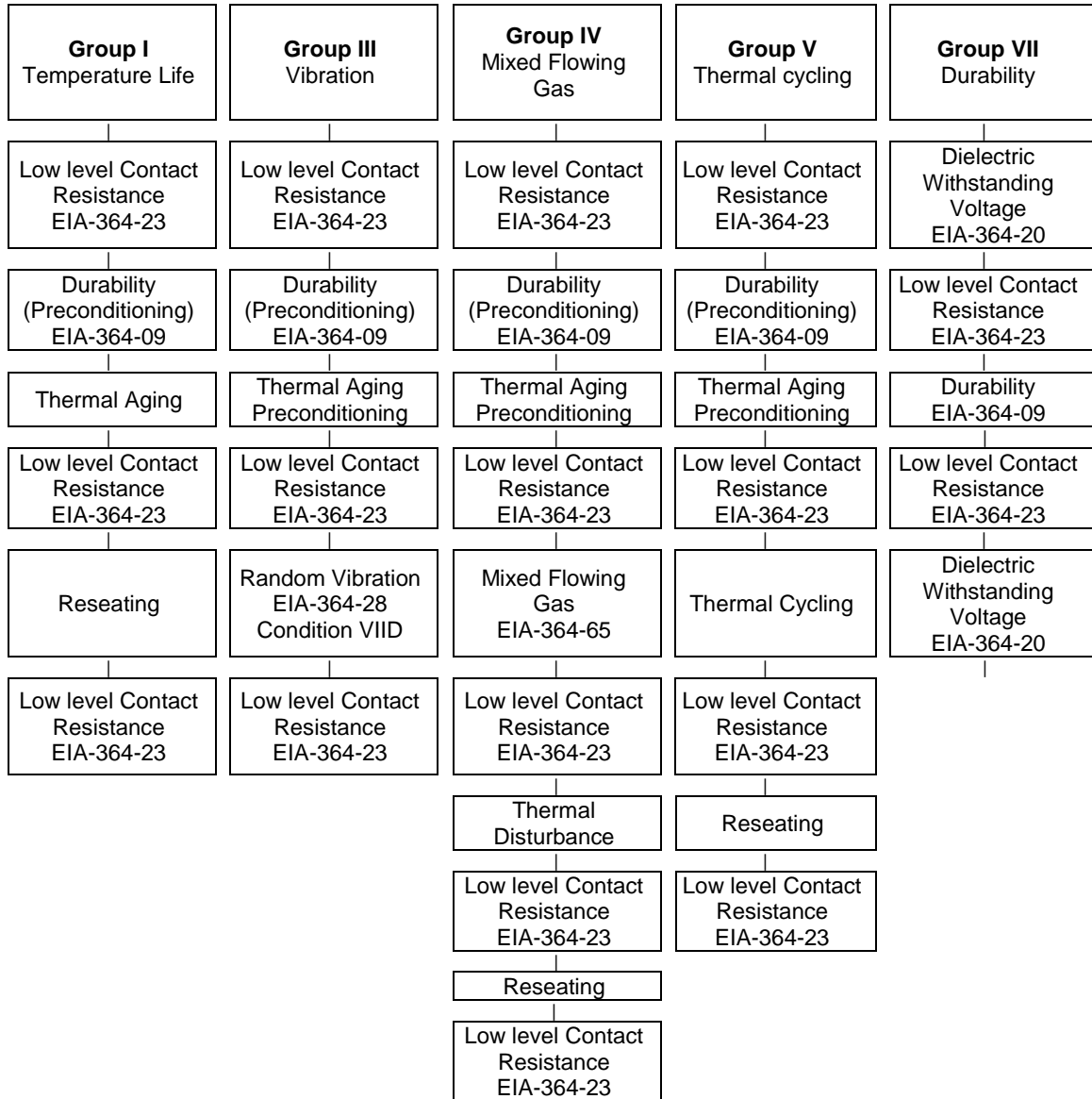
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## 7.0 TEST SEQUENCE

Reliability Test Sequences Per EIA-364-1000



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## Individual Tests

Connector Mate and Unmate Forces

Terminal Retention Force

Wire Pullout Force (Axial)

Terminal Insertion Force

Pin Retention Force

Thumb Latch Operation Forces

Thumb Latch Yield Strength

Normal Force

Temperature Rise

Steady State Temperature Rise

T-Rise Profile

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## 8.0 SOLDER INFORMATION

Per SMES-152 and AS-40000-5013

\*These specifications establish standard solderability test methods used to evaluate a products ability to accept molten solder. Solder Process Temperatures and Reflow Solder Profiles will vary based on application, equipment, solder paste, PCB thickness, etc.

### 8.1 SOLDER PROCESS TEMPERATURES

Wave Solder Temperature: 260 °C Max  
 Reflow Solder Temperature: 235 °C Max (see note 1)

[Molex Solderability Specification](#)  
[SMES-152](#)  
[\(Click Here\)](#)

Notes:

- The 87427 products covered in this specification are molded from a hydroscopic thermoplastic resin. In high-humidity environments, parts will absorb moisture, possibly causing outgassing and blistering when exposed to temperatures higher than specified above. High reflow temperatures (typical for lead-free soldering) may be used if special precautions to remove moisture are taken. Parts exposed to high humidity conditions should be dried or “baked” before the soldering process. Guidelines for drying are:
  - 3-5 hours at 120 °C – 125 °C
 Note that the customer should determine the optimum drying parameters based on their own conditions and experience.

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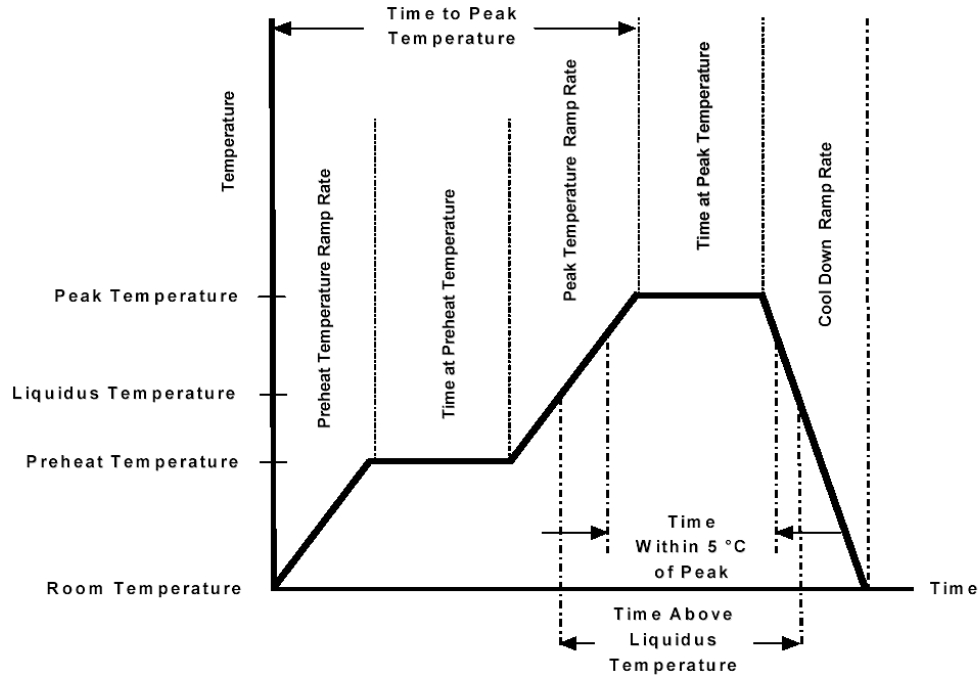


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## 8.2 SOLDERING PROFILE

(This profile is per JEDEC J-STD-020D.1 and it is for guideline only; please see notes for additional information)

[Molex Connector Heat Resistance Specification AS-40000-5013 \(Click Here\)](#)



Description	Requirement
Average Ramp Rate	3 °C/sec Max
Preheat Temperature	150 °C Min to 200 °C Max
Preheat Time	60 to 180 sec
Ramp to Peak	3 °C/sec Max
Time over Liquids (217°C)	60 to 150 sec
Peak Temperature	260 +0/-5 °C
Time within 5°C of Peak	20 to 40 sec
Ramp - Cool Down	6 °C/sec Max
Time 25°C to Peak	8 min Max

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## 9.0 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.

## 10.0 MATE AND UNMATE FORCE

Receptacle and Right Angle Header Assemblies with 5556 Tin-plated Brass Terminals.

CKT SIZE	MATE (kg. Max)			UNMATE (kg Min)		
	Initial	6 th	30 th	Initial	6 th	30 th
10	14.50	13.50	13.50	0.50	0.40	0.40
22	31.90	29.70	29.70	1.10	0.88	0.88

## 11.0 GAGES AND FIXTURES

It is recommended that test plugs (Series 44281) be used for continuity testing of receptacles. Standard mating parts should not be used for harness testing.

NOTE: The use of unauthorized testing devices and/or probes with a Molex product may cause damage to and affect functionality of the Molex product, and such use may void any and all warranties, expressed or implied.

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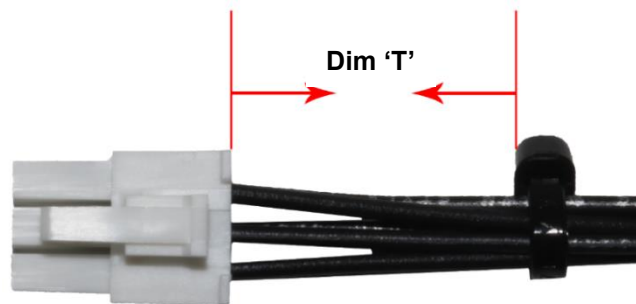
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## 12.0 CABLE TIE AND / OR TWIST TIE LOCATION

Circuit Sizes		Dimension T Minimum
Dual Row	Single Row	
2-6	2-3	.50" (12.7 mm)
8	4	.75" (19.1 mm)
10-12	5-6	1.00" (25.4 mm)
14-16	7-8	1.25" (31.75 mm)
18-20	9-10	1.50" (38.09 mm)
22-24	11-12	1.75" (44.45 mm)



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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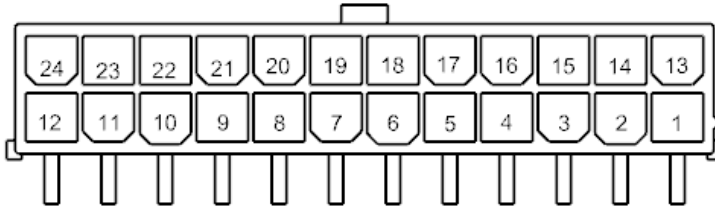
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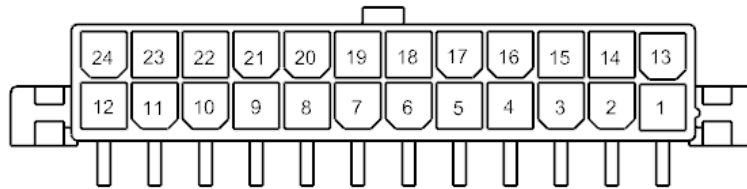
REVISION: <b>B</b>	ECM INFORMATION: EC No: <b>632051</b> DATE: <b>2020/04/29</b>	TITLE: <b>MINIFIT JR RIGHT ANGLE CONNECTOR WITH MOUNTING</b>	SHEET No. <b>15 of 16</b>
DOCUMENT NUMBER: <b>PS-87427-0001</b>	DOC TYPE: <b>PS</b>	DOC PART: <b>001</b>	CREATED / REVISED BY: <b>MBN02</b>
		CHECKED BY: <b>DSTEIER</b>	APPROVED BY: <b>FSMITH</b>
TEMPLATE FILENAME: 1703070003 REV A			

## 13.0 POLARIZATION AND KEYING OPTIONS

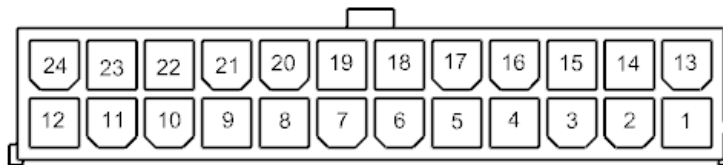
### 13.1 Mini-Fir Jr. RA Header w/o Mounting Flanges (Series: [87427](#))



### 13.2 Mini-Fir Jr. RA Header with Mounting Flanges (Series: [87427](#))



### 13.3 Mini-Fir Jr. Vertical Header (Series: [87427](#))



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REVISION: <b>B</b>	ECM INFORMATION: EC No: <b>632051</b> DATE: <b>2020/04/29</b>	TITLE: <b>MINIFIT JR RIGHT ANGLE CONNECTOR WITH MOUNTING</b>				SHEET No. <b>16 of 16</b>
DOCUMENT NUMBER: <b>PS-87427-0001</b>	DOC TYPE: <b>PS</b>	DOC PART: <b>001</b>	CREATED / REVISED BY: <b>MBN02</b>	CHECKED BY: <b>DSTEIER</b>	APPROVED BY: <b>FSMITH</b>	
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