


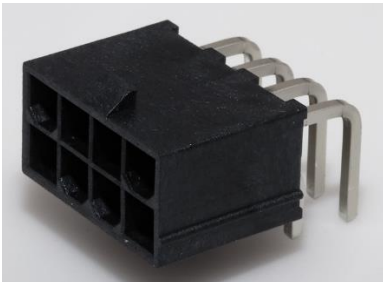


MINI-FIT JR. REFLOW CAPABLE HEADERS

<p>Female Crimp Terminal</p>	<p>Receptacle Housing</p>
	
<p>Series: 5556</p>	<p>Series: 5557</p>

<p>Vertical Header</p>	<p>Right Angle Header</p>
	
<p>Series: 46207</p>	<p>Series: 46991</p>

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<p>DOCUMENT NUMBER: PS-5556-004</p>	<p>DOC TYPE: PS</p>	<p>DOC PART: 001</p>	<p>CREATED / REVISED BY: MBN02</p>	<p>CHECKED BY: DSTEIER</p>	<p>APPROVED BY: FSMITH</p>	
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Right Angle Header (Dual Row)



Series: [5569](#)

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1.0 SCOPE

This Product Specification covers performance requirements for the MINI-FIT JR. RTC (Reflow Technology Capable) HEADER 4.20 mm (.165 inch) centerline (pitch) printed circuit board (PCB) connector series made from LCP resin with Tin or 30µ" Gold plated terminals in wire to board when mated to Mini-fit JR. receptacle housing terminated with 16 to 28 AWG stranded, copper wire using Crimp technology with Tin or 30µ" Gold plating.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER (S)

Table 1 – Wire to Board				
Description	Series Number	UL(600V)	CSA(600V)	IEC(250V)
Female Crimp Terminal	5556	n/a	n/a	n/a
Receptacle Housing	5557	Yes	Yes	Yes
Right Angle Header ¹	5569-* -130*	Yes	Yes	Yes
Vertical Header	46207	Yes	Yes	Yes
Right Angle Header ¹	46991	Yes	Yes	Yes

Other products conforming to this specification are noted on the individual drawings

2.2 DIMENSIONS, MATERIALS, PLATING AND MARKINGS

Dimensions & Plating: See individual sales drawings.

2.3 ENVIRONMENTAL CONFORMANCE

To find product compliance information:

- [Go to molex.com](http://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 APPROVALS

UL File: E29179

CSA Certificate: LR 19980

IEC 61984 Certification: Tested to and found in compliance with IEC 61984. NRTL type examination certificate available upon request. Contact Molex Safety team for questions regarding certification on specific part numbers

¹ Applicable only to select parts in this series per individual part drawing. Listed series number is Engineering number.

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3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

3.1 MOLEX DOCUMENTS

- [Mini-Fit Jr. Connectors Test summary TS-5556-002-001](#)
- [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
- UL 1977
- CSA STD. C22.2 NO. 182.3-M1987
- IEC / EN 61984
- EN 60695-2-11-2001 / IEC 60695-2-11-2000
- EN 60335-1

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4.0 ELECTRICAL PERFORMANCE RATINGS

4.1 VOLTAGE*

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

*Voltage rating based on UL 1977. Maximum voltage allowed may vary dependent upon "End Use Application". Refer to the applicable end use standard for additional information on Voltage, Creepage and Clearance requirements

4.2 APPLICABLE WIRES

Applicable Wire Gauges and Maximum Insulation Diameter	16 AWG Stranded, Copper: 3.15 mm / .124 inches
	18-24 AWG Stranded, Copper: 3.10 mm / .122 inches
	22-28 AWG Stranded, Copper: 1.80 mm / .071 inches

4.3 MAXIMUM CURRENT RATING**

Table 2 - MAXIMUM CURRENT RATING (Amperes) Wire-to-Wire and Wire-to-Board									
Brass					Phosphor Bronze				
Wire	Ckt. Size 2 & 3	4 - 6	7 - 10	12 - 24	Wire	Ckt. Size 2 & 3	4 - 6	7 - 10	12 - 24
AWG #16	9	8	7	6	AWG #16	8	7	6	5
AWG #18	9	8	7	6	AWG #18	8	7	6	5
AWG #20	7	6	5	5	AWG #20	6	5	4	4
AWG #22	5	4	4	4	AWG #22	4	3	3	3
AWG #24	4	3	3	3	AWG #24	3	2	2	2
AWG #26	3	2	2	2	AWG #26	2	1	1	1
AWG #28	2	1	1	1	AWG #28	1	1	1	1

Note: PCB trace design may greatly affect temperature rise results in Wire-to-Board Applications.

** Current rating is application dependent and may be affected by the wire rating such as listed in UL-609501. Each application should be evaluated by the end user for compliance to specific safety agency requirements. The ratings listed in the chart above represents the MAXIMUM current carrying capacity of a fully loaded connector with all circuits powered using tinned copper conductor stranded wire 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 & stranding, tin coated or bare copper wire, wire length & crimp quality are other factors that influence current rating.

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4.4 TEMPERATURE

	Terminal Type		
	Formed Brass	Solid Brass	Phos Bronze
Operating: *	- 40°C to + 80°C	- 40°C to + 105°C	- 40°C to + 105°C
Nonoperating:	- 40°C to + 80°C	- 40°C to + 105°C	- 40°C to + 105°C

Field temperature and field life: 65° C for 3 years (based EIA-364-1000, table 8)*

Note: Temperature life test duration (section 6.3 item 2) 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 GLOW WIRE

The following series are glow wire capable: 5569*-130*¹, 46991, 46207. Representative samples were tested and found compliant with EN 60695-2-11-2001 / IEC 60695-2-11-2000 Glow Wire Test Methods for End-Products. These were additionally investigated for compliance with EN 60335-1 / IEC 60335-1 750C / 2 sec with no flaming. VDE Test report available upon request.

4.6 DURABILITY

Tin plated: 30 mating cycles
Gold plated: 30 mating cycles

As tested in accordance with EIA-364-1000 test method (see sec 6.2 item 3 of this specification).

5.0 QUALIFICATION

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

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6.0 WIRE-TO-BOARD PERFORMANCE

6.1 ELECTRICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.1.1	Contact Resistance (Low Level)	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 milliohms MAXIMUM [initial]
6.1.2	Insulation Resistance	Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
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 (via Current Cycling)	Mate connectors. Measure the temperature rise at the rated current after 96 hours, during current cycling (45 minutes ON and 15 minutes OFF per hour) for 240 hours, and after final 96-hour steady state.	Temperature rise: +30°C MAXIMUM

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6.2 MECHANICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.1	Terminal Mate and Unmate Forces Per Circuit	Insert and withdraw terminal (male to female) at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute with latch disabled.	14.7 N (3.30 lbf) MAXIMUM insertion force and 0.5 N (0.11 lbf) MINIMUM withdrawal force
6.2.2	Crimp Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	30 N (6.74 lbf) MINIMUM retention force
6.2.3	Durability	Mate connectors up to 30 cycles at a maximum rate of 10 cycles per minute Based on mated pairs of 30μ " Au or 50μ " tin at the contact interface	20 milliohms maximum (change from initial)
6.2.4	Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII, letter D. Test Duration: 15 minutes in each axis.	20 milliohms MAXIMUM (change from initial) and Discontinuity < 1 microsecond
6.2.5	Shock (Mechanical)	Mate connectors and shock at 50 g's with $\frac{1}{2}$ sine wave (11 milliseconds) shocks in the $\pm X$, $\pm Y$, $\pm Z$ axes, (18 shocks total).	20 milliohms MAXIMUM and Discontinuity < 1 microsecond
6.2.6	Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute without influence from the insulation crimp. Wire pullout force is applicator dependent. Refer to relevant Molex Applicator Tooling specification.	16 Awg = 68.4 N (15.4 lbf) Min. 18 Awg = 88.0 N (19.8 lbf) Min. 20 Awg = 58.7 N (13.2 lbf) Min. 22 Awg = 39.1 N (8.8 lbf) Min. 24 Awg = 29.3 N (6.6 lbf) Min. 26 Awg = 19.6 N (4.4 lbf) Min. 28 Awg = 9.8 N (2.2 lbf) Min.
6.2.7	Crimp Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch).	15.0 N (3.37 lbf) MAXIMUM insertion force
6.2.8	Normal Force	Apply a perpendicular force to contacts.	Sn 1.47 N (150 grams) MINIMUM
			Au 0.49 N (50 grams) MINIMUM

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6.2 MECHANICAL PERFORMANCE (CONTD.)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.9	Solid PC Tail Header Pin Retention Force (in housing) (5569 Series)	Apply axial push force at the speed rate of 25 ± 3 mm/minute.	9.81 N (2.20 lbf) MINIMUM RETENTION FORCE
6.2.11	Pin Retention Force (in Housing – PC tail side) (46207 series)	Axial pushout force exerted on the PC tail side of pin in header at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	6.67 N (1.50 lbf) MINIMUM retention force per pin
6.2.12	Pin Retention Force (in Housing – Pin mating side) (46207 series)	Axial pushout force exerted on mating side of pin in header at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	89.0 N (20.0 lbf) MINIMUM retention force per pin
6.2.13	Thumb latch Operation Force	Depress latch at a speed rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	22.2 N (5.0 lbf) MAXIMUM
6.2.14	Thumb latch Yield Strength	Mate loaded connectors fully. Pull apart via wires at a speed rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (after 1 st mate)	68 N (15.3 lbf) MINIMUM

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6.3 ENVIRONMENTAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.3.1	Thermal Shock	Mate connectors: expose for 5 cycles Between temperatures -55° C and 105° C; Dwell 0.5 hours at each temperature.	20 milliohms MAXIMUM (change from initial) Visual: No Damage Dielectric Strength per 6.1.3 except 1500VAC test voltage Insulation Resistance per 6.1.2
6.3.2	Thermal Aging	Mate connectors; expose to: 96 hours at 105 ± 2°C	20 milliohms MAXIMUM (change from initial) and Visual: No Damage
6.3.3	Humidity (Steady State)	Mate connectors: expose to a temperature of 60 ± 2°C with a relative humidity of 90-95% for 96 hours. Remove surface moisture and air dry for 1 hour prior to measurements.	20 milliohms MAXIMUM (change from initial) Visual: No Damage Dielectric Strength per 6.1.3 except 1500VAC test voltage Insulation Resistance per 6.1.2
6.3.4	Solderability Dip Test	Per Molex Test Method: SMES-152	Solder area shall have minimum of 95% solder coverage
6.3.5	Reflow Solder Resistance	Convection reflow solder process 260°C Maximum per AS-40000-5013	Visual: No Damage
6.3.6	Wave Solder Resistance	Dip header terminal tails in solder: Duration: 5±0.5 seconds Solder Temperature: 260±5°C Per AS-40000-5013	Visual: No Damage
6.3.7	Cold Resistance	Mate connectors: Duration; 96 hours; Temperature: -40 ± 3°C	20 milliohms MAXIMUM (change from initial) and Visual: No Damage
6.3.8	Mixed Flowing Gas	EIA-364-65 with Class II a Gas concentrations 10 days mated (30µ" Gold plated only)	20 milliohms MAXIMUM (change from initial) and Visual: No Damage

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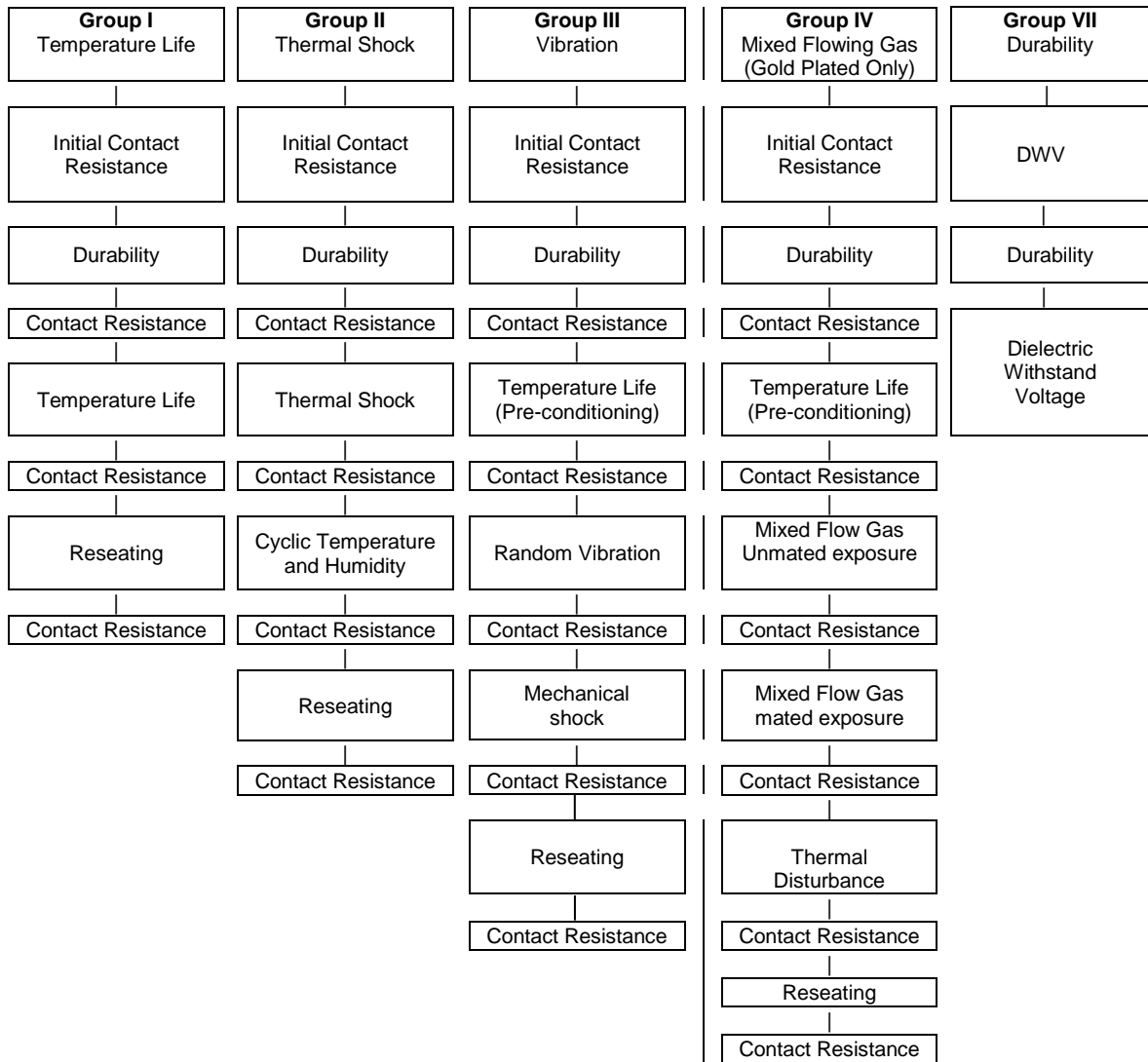
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7.0 TEST SEQUENCE GROUPS

Reliability Test Sequences Per EIA-364-1000



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Individual Tests

Terminal Mate / Unmate Force

Crimp Terminal Insertion force

Crimp Terminal Retention force

PCB Engagement Forces

Wire Pullout force (Axial)

Normal force

Solid PC Header Pin Retention Force

Pin Retention Force

Thumb Latch Yield strength

Thumb Latch Operation Force

Temperature Rise

T-Rise Profiling

Steady State Temperature Rise

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8.0 SOLDER INFORMATION

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

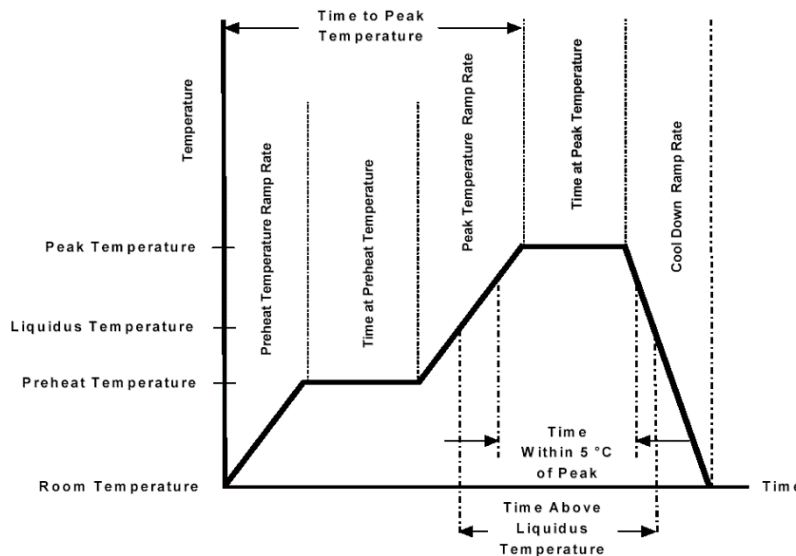
Wave Solder: 260°C MAX
 Reflow Solder: 260°C Max

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

8.2 REFLOW SOLDERING PROFILE

(This profile is per AS-40000-5013 and is provided as a guideline only. Please see notes for additional information)

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



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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 Liquidus (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

9.0 PACKAGING

Parts shall be packaged to protect against damage during normal handling, transit and storage. For specific part packaging details, refer to the packaging specification called out on the applicable product sales drawing. Nylon parts should remain in their original packaging until ready for use to prevent moisture loss or gain. Nylon will absorb moisture which causes dimensions to increase. Excess moisture gain can result in dimensions exceeding specification. See AS-45499-001.

10.0 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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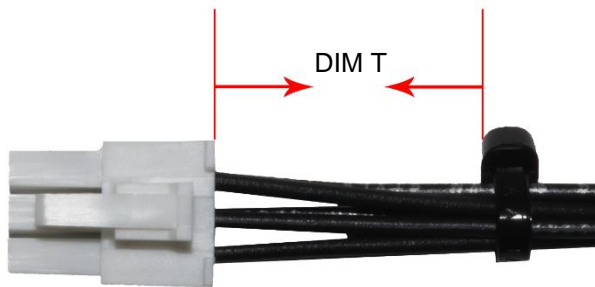
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11.0 CABLE TIE AND/ OR TWIST LOCATION

Circuit Sizes		Dim T Min.
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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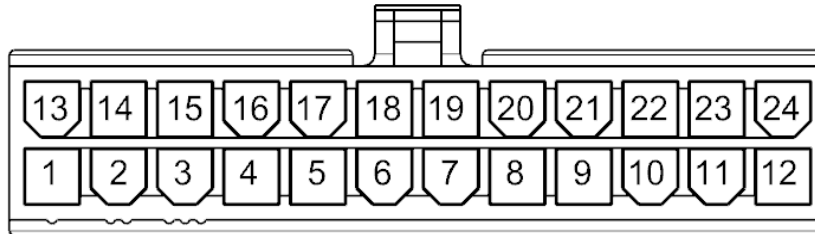
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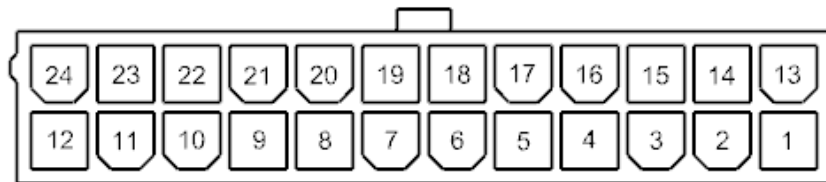
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12.0 POLARIZATION AND KEYING OPTIONS

12.1 Receptacle Housing (Series: [5557](#))



12.2 Right Angle / Vertical Header (Series: [5569](#) , [46207](#) , [46991](#))



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