

MINI-FIT® PCI EXPRESS®*

WIRE TO BOARD

CONNECTOR SYSTEM

Female Terminal	Female Terminal, High Current
	
Series: 5556	Series: 45750
Receptacle Housing, 6 Circuit	Receptacle Housing, 8 Circuit
	
Series: 45559	Series: 45587

*Note: PCI Express is a registered trademark of the Peripheral Component Interchange special Interest Group (PCI-SIG)

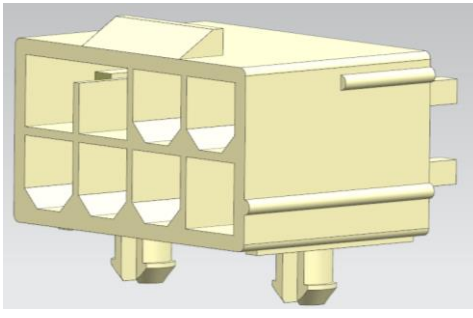
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Vertical Header, 6 Circuit	RA Header, 8 Circuit
	
Series: 45718	Series: 45586

Vertical Header, 8 Circuit

Series: 216585

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1.0 SCOPE

This Product Specification covers performance requirements for the MINI-FIT PCI Express 4.20 mm (.165 inch) centerline (pitch) printed circuit board (PCB) connector series with Tin or Gold plating in Wire-to-Board and terminated with 16 to 24 AWG wire using Crimp technology.

Note: This supplemental product specification covers a modified version of the Mini-Fit product line. Any information not included in this specification can be found in the *Primary Product Specification* listed in Table 1 of Section 2.1.

2.0 PRODUCT DESCRIPTION

2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES	Primary Product Specification
Female Terminal	5556	PS-5556-001
Female Terminal, High Current	45750	PS-45750-001
Receptacle Housing, 6 Circuit	45559	PS-5556-001
Right Angle Header, 6 Circuit	45558	PS-5556-001
Right Angle Header, 6 Circuit, RTC	45732	PS-5556-004
Vertical Header, 6 Circuit	45718	PS-5556-001
Vertical Header, 8 Circuit	216585	PS-5556-001
Receptacle Housing, 8 Circuit	45587	PS-5556-001
Right Angle Header, 8 Circuit	45586	PS-5556-001

2.2 DIMENSIONS, MATERIALS, PLATINGS

See sales drawings for details on dimensions, materials and platings.

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 LISTINGS¹

¹ See *Primary Product Specification* in Section 2.1.

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3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

3.1 MOLEX DOCUMENTS¹

3.2 INDUSTRY DOCUMENTS¹

PCI Express Card Electromechanical Specification

4.0 ELECTRICAL PERFORMANCE RATINGS¹

4.4 TEMPERATURE

5.0 QUALIFICATION¹

6.0 WIRE-TO-BOARD PERFORMANCE¹

6.1 ELECTRICAL PERFORMANCE

6.2 MECHANICAL PERFORMANCE

6.3 ENVIRONMENTAL PERFORMANCE

7.0 TEST SEQUENCE¹

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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 WAVE SOLDER PROCESS TEMPERATURES

45732 Series headers with pegs: 260°C MAX.

All other headers with pegs: 240 °C MAX.

[Molex Solderability Specification](#)

[SMES-152](#)

[\(Click Here\)](#)

8.2 REFLOW SOLDER PROCESS TEMPERATURES

45732 Series headers with pegs: 260°C MAX.

All other headers: Not Rated for Reflow Processing

8.3 SOLDERING PROFILE¹**9.0 PACKAGING¹**

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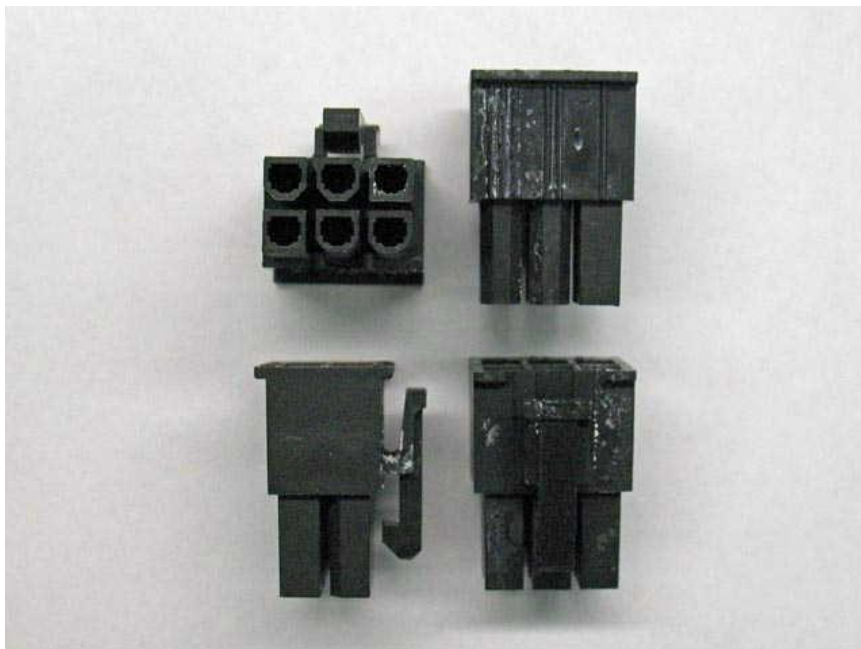
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PS-45558-001	PS	001	JERRYW8	XQZHANG	XQZHANG	

10.0 SPECIAL COSMETIC REQUIREMENTS

Due to moisturization, white residue may form on the surface of the 45559 series receptacle housing. This white residue does not affect the performance of the part and is acceptable. Refer to the following photograph for examples of acceptable residue.



11.0 CABLE TIE AND / OR TWIST TIE LOCATION¹

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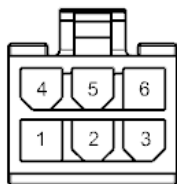
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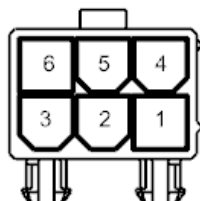
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12.0 POLARIZATION AND KEYING OPTIONS

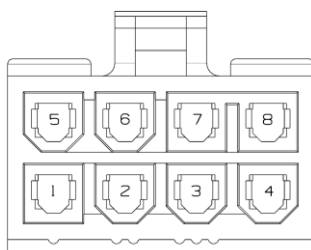
12.1 Receptacle Housing – 6ckt (Series: [45559](#))



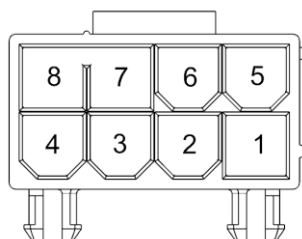
12.2 Header – 6ckt (Series: [45718](#), 45732, 45558)



12.3 Receptacle Housing – 8ckt (Series: [45587](#))



12.4 Header – 8ckt (Series: [45586](#), [216585](#))



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