

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0039013069](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Pitch Mini-Fit Jr.™ Plug Housing, Dual Row, without Panel Mount Ears, PA Polyamide Nylon 6/6, UL 94V-0, 6 Circuits

**Documents:**

[3D Model](#) [Product Specification PS-5556-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
TUV R72081037  
UL E29179

**General**

Product Family Crimp Housings  
Series [5559](#)  
Comments Current = 13A max. per circuit when header is mated to a receptacle loaded with [45750](#) series terminals crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Glow Wire Equivalent Part Number [50361675](#)  
  
Overview [minifit\\_jr](#)  
Product Name Mini-Fit Jr.™

**Physical**

Breakaway No  
Circuits (maximum) 6  
Color - Resin Natural  
Flammability 94V-0  
Gender Male  
Glow-Wire Compliant No  
Keying to Mating Part None  
Lock to Mating Part Yes  
Material - Resin Nylon  
Number of Rows 2  
Packaging Type Bag  
Panel Mount No  
Pitch - Mating Interface (in) 0.165 In  
Pitch - Mating Interface (mm) 4.20 mm  
Pitch - Term. Interface (in) 0.165 In  
Pitch - Term. Interface (mm) 4.20 mm  
Polarized to Mating Part Yes  
Stackable No  
Temperature Range - Operating -40°C to +105°C

**Electrical**

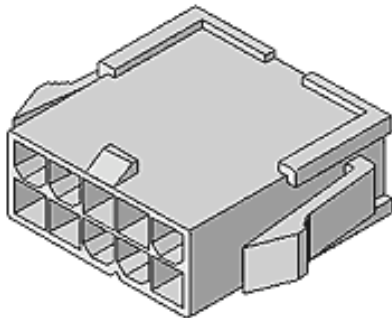
Current - Maximum per Contact 13A

**Material Info**

Old Part Number 5559-06P1-210

**Reference - Drawing Numbers**

[Packaging Specification](#) PK-5559-002  
[Product Specification](#) PS-5556-001



Series

image - Reference only

**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Halogen-Free**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[5559Series](#)

**Mates With**

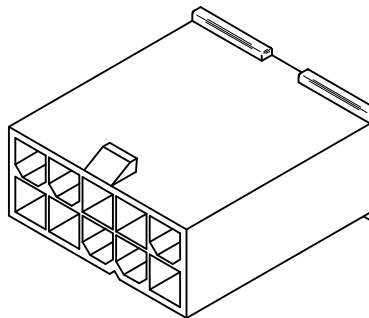
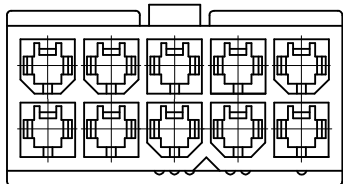
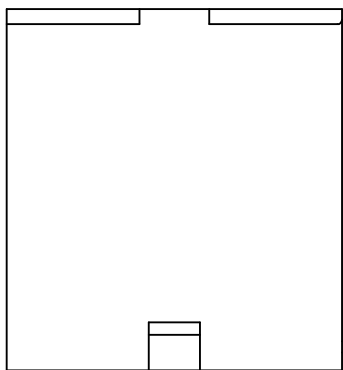
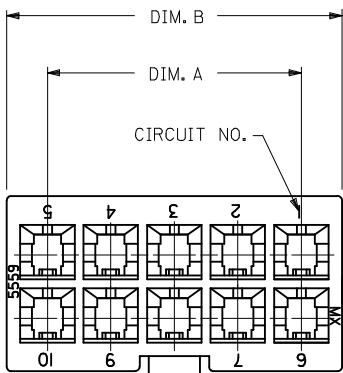
[39-01-2065](#) Receptacle Housing

**Use With**

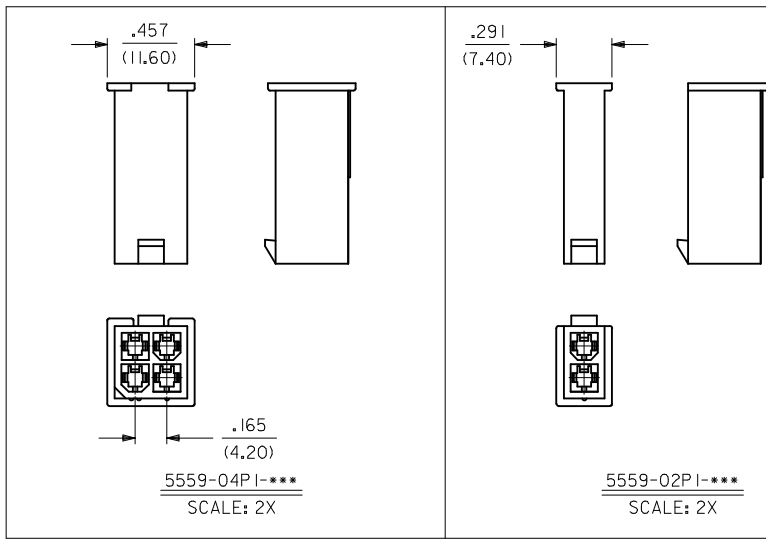
[5558](#) Mini-Fit Jr.™ Male Crimp Terminals.  
[44478](#) Mini-Fit HCS™ Male Crimp Terminals. [30490](#) Mini-Fit® Male Grounding Crimp Terminals

This document was generated on 05/19/2010

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| CKT. SIZE | DIM. A           | DIM. B           |
|-----------|------------------|------------------|
| 6         | .331<br>(8.40)   | .543<br>(13.80)  |
| 8         | .496<br>(12.60)  | .709<br>(18.00)  |
| 10        | .661<br>(16.80)  | .874<br>(22.20)  |
| 12        | .827<br>(21.00)  | 1.039<br>(26.40) |
| 14        | .992<br>(25.20)  | 1.205<br>(30.60) |
| 16        | 1.157<br>(29.40) | 1.370<br>(34.80) |
| 18        | 1.323<br>(33.60) | 1.535<br>(39.00) |
| 20        | 1.488<br>(37.80) | 1.701<br>(43.20) |
| 22        | 1.654<br>(42.00) | 1.866<br>(47.40) |
| 24        | 1.819<br>(46.20) | 2.031<br>(51.60) |



- NOTES:
- MATERIAL: BLANK=NYLON 6/6, UL 94V-2, COLOR: NATURAL  
BL=NYLON 6/6, UL94V-2, COLOR: BLACK  
210=NYLON 6/6, UL 94V-0, COLOR: NATURAL  
220=NYLON 6/6, UL 94V-2, U.V. STABILIZED, COLOR: BLACK
  - FINISH: N/A
  - PRODUCT SPECIFICATION: PS-5556-001
  - PACKAGING SPECIFICATION: SEE CHARTS
  - THIS PART MATES WITH RECEPTACLE #5557
  - THIS PART IS FOR USE WITH MOLEX MALE TERMINAL #5558-\*

|                                                                                                                         |                               |                                                                                                                                  |  |                          |                    |                                                   |                        |                        |  |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--------------------|---------------------------------------------------|------------------------|------------------------|--|
| ADDED PK SPECS<br>EC NO: UCP2009-0724<br>DRWN:JKLOSTENIER 2008/10/01<br>CHKD:JBELL 2008/10/03<br>APPR:FSMITH 2008/10/03 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |  | DIMENSION STYLE<br>IN/MM |                    | SCALE<br>4:1                                      | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                                         |                               | mm INCH                                                                                                                          |  | DRAWN BY<br>RJF          | DATE<br>1989/09/22 | TITLE<br>MINI FIT JR SERIES<br>PLUG W/O MTG. EARS |                        |                        |  |
|                                                                                                                         |                               | 4 PLACES ± --- ± ---                                                                                                             |  | CHECKED BY<br>BAP        | DATE<br>1989/09/22 |                                                   |                        |                        |  |
|                                                                                                                         |                               | 3 PLACES ± --- ± .015                                                                                                            |  | APPROVED BY<br>ROS       |                    | DATE<br>1989/09/22                                |                        |                        |  |
| 2 PLACES ± 0.38 ± ---                                                                                                   |                               | MATERIAL NO.<br>SEE CHART                                                                                                        |  |                          |                    | DOCUMENT NO.<br>SD-5559-NP1*                      |                        |                        |  |
| 1 PLACE ± --- ± ---                                                                                                     |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |  |                          |                    | SHEET NO.<br>1 OF 2                               |                        |                        |  |
| ANGULAR ± 1/2°                                                                                                          |                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                          |                    |                                                   |                        |                        |  |

|   |             |                |              |                        |                         |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   |   |
|---|-------------|----------------|--------------|------------------------|-------------------------|-------------|------------------|--------------|----------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
|   | 13          | 12             | 11           | 10                     | 9                       | 8           | 7                | 6            | 5        | 4                       | 3                                                                                                                                                                                                    | 2 | 1 |   |
|   | PART NUMBER | ENG. NUMBER    | CIRCUIT SIZE | MATERIAL               | PACKAGING SPECIFICATION | PART NUMBER | ENG. NUMBER      | CIRCUIT SIZE | MATERIAL | PACKAGING SPECIFICATION | <div>LEGEND</div> <div> <div>5559-**-PI-*</div> <div>BASE NO</div> <div>CIRCUIT SIZE (02-24)</div> <div>PLUG WITHOUT MOUNTING EARS</div> </div> <div>MATERIAL OPTION: (SEE NOTE 1 ON SHEET 1.)</div> |   |   |   |
| J | 39-01-3023  | 5559-02P I     | 2            | 94V-2                  | PK-5559-002             | 39-01-3029  | 5559-02P I-2 I O | 2            | 94V-0    | PK-5559-002             |                                                                                                                                                                                                      |   |   | J |
|   | 39-01-3043  | 5559-04P I     | 4            | 94V-2                  | BULK                    | 39-01-3049  | 5559-04P I-2 I O | 4            | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | 39-01-3063  | 5559-06P I     | 6            | 94V-2                  | BULK                    | 39-01-3069  | 5559-06P I-2 I O | 6            | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
| I | 39-01-3083  | 5559-08P I     | 8            | 94V-2                  | BULK                    | 39-01-3089  | 5559-08P I-2 I O | 8            | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   | I |
|   | 39-01-3103  | 5559-10P I     | 10           | 94V-2                  | BULK                    | 39-01-3109  | 5559-10P I-2 I O | 10           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | 39-01-3123  | 5559-12P I     | 12           | 94V-2                  | BULK                    | 39-01-3129  | 5559-12P I-2 I O | 12           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
| H | 39-01-3143  | 5559-14P I     | 14           | 94V-2                  | BULK                    | 39-01-3149  | 5559-14P I-2 I O | 14           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   | H |
|   | 39-01-3163  | 5559-16P I     | 16           | 94V-2                  | BULK                    | 39-01-3169  | 5559-16P I-2 I O | 16           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | 39-01-3183  | 5559-18P I     | 18           | 94V-2                  | BULK                    | 39-01-3189  | 5559-18P I-2 I O | 18           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
| G | 39-01-3203  | 5559-20P I     | 20           | 94V-2                  | BULK                    | 39-01-3209  | 5559-20P I-2 I O | 20           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   | G |
|   | 39-01-3223  | 5559-22P I     | 22           | 94V-2                  | BULK                    | 39-01-3229  | 5559-22P I-2 I O | 22           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | 39-01-3243  | 5559-24P I     | 24           | 94V-2                  | BULK                    | 39-01-3249  | 5559-24P I-2 I O | 24           | 94V-0    | BULK                    |                                                                                                                                                                                                      |   |   |   |
| F |             |                |              |                        |                         |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   | F |
|   | PART NUMBER | ENG. NUMBER    | CIRCUIT SIZE | MATERIAL               | PACKAGING SPECIFICATION | PART NUMBER | ENG. NUMBER      | CIRCUIT SIZE | MATERIAL | PACKAGING SPECIFICATION |                                                                                                                                                                                                      |   |   |   |
| E | I5-04-6020  | 5559-02P I-220 | 2            | 94V-2, U.V. STABILIZED | PK-5559-002             | 39-01-3026  | 5559-02P1-BL     | 2            | 94V-2    | PK-5559-002             |                                                                                                                                                                                                      |   |   | E |
|   | NO E.D.P.   | 5559-04P I-220 | 4            | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3046  | 5559-04P1-BL     | 4            | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | NO E.D.P.   | 5559-06P I-220 | 6            | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3066  | 5559-06P1-BL     | 6            | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | NO E.D.P.   | 5559-08P I-220 | 8            | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3086  | 5559-08P1-BL     | 8            | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   |   |
| D | NO E.D.P.   | 5559-10P I-220 | 10           | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3106  | 5559-10P1-BL     | 10           | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   | D |
|   | NO E.D.P.   | 5559-12P I-220 | 12           | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3126  | 5559-12P1-BL     | 12           | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   |   |
|   | NO E.D.P.   | 5559-14P I-220 | 14           | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3146  | 5559-14P1-BL     | 14           | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   |   |
| C | NO E.D.P.   | 5559-16P I-220 | 16           | 94V-2, U.V. STABILIZED | BULK                    | 39-01-3166  | 5559-16P1-BL     | 16           | 94V-2    | BULK                    |                                                                                                                                                                                                      |   |   | C |
|   | NO E.D.P.   | 5559-18P I-220 | 18           | 94V-2, U.V. STABILIZED | BULK                    |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   |   |
|   | NO E.D.P.   | 5559-20P I-220 | 20           | 94V-2, U.V. STABILIZED | BULK                    |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   |   |
| B | NO E.D.P.   | 5559-22P I-220 | 22           | 94V-2, U.V. STABILIZED | BULK                    |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   | B |
|   | NO E.D.P.   | 5559-24P I-220 | 24           | 94V-2, U.V. STABILIZED | BULK                    |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   |   |
| A |             |                |              |                        |                         |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   | A |
|   |             |                |              |                        |                         |             |                  |              |          |                         |                                                                                                                                                                                                      |   |   |   |
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