

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0039012146

Status:

Active

Overview:

[minifit\\_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Plug Housing, Dual Row, with and without Panel Mount Ears, UL 94V-0, Panel Mount, 14 Circuits

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-5556-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

|     |           |
|-----|-----------|
| CSA | LR19980   |
| TUV | R72081037 |
| UL  | E29179    |

General

|                |                                                                                                                                                                                                                                                                             |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Family | Crimp Housings                                                                                                                                                                                                                                                              |
| Series         | <a href="#">5559</a>                                                                                                                                                                                                                                                        |
| Comments       | Current = 13A max. per circuit when header is mated to a receptacle loaded with <a href="#">45750</a> series terminals crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Not for use with Strain Relief |
| Overview       | <a href="#">minifit_jr</a>                                                                                                                                                                                                                                                  |
| Product Name   | Mini-Fit Jr.™                                                                                                                                                                                                                                                               |

Physical

|                               |                 |
|-------------------------------|-----------------|
| Breakaway                     | No              |
| Circuits (maximum)            | 14              |
| Color - Resin                 | Natural         |
| Flammability                  | 94V-0           |
| Gender                        | Male            |
| Glow-Wire Compliant           | No              |
| Material - Resin              | Nylon           |
| Number of Rows                | 2               |
| Packaging Type                | Bag             |
| Panel Mount                   | Yes             |
| 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

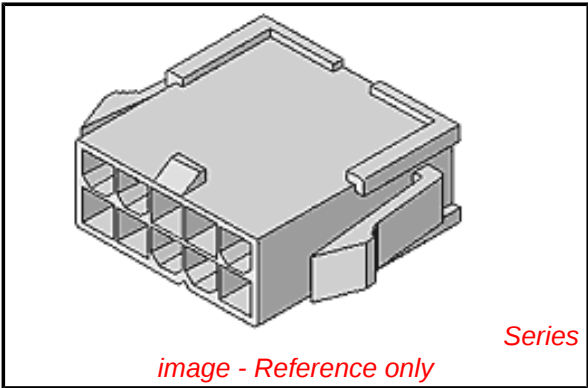
|                               |     |
|-------------------------------|-----|
| Current - Maximum per Contact | 13A |
|-------------------------------|-----|

Material Info

|                 |              |
|-----------------|--------------|
| Old Part Number | 5559-14P-210 |
|-----------------|--------------|

Reference - Drawing Numbers

|                       |             |
|-----------------------|-------------|
| Product Specification | PS-5556-001 |
| Sales Drawing         | SD-5559-NP  |



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

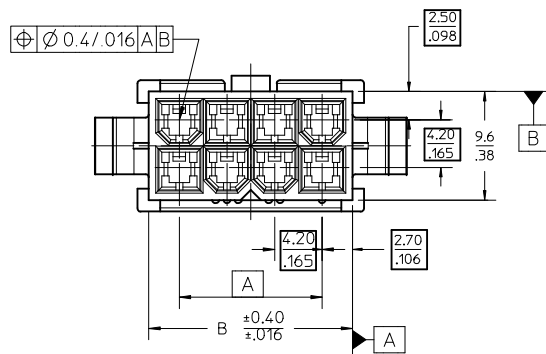
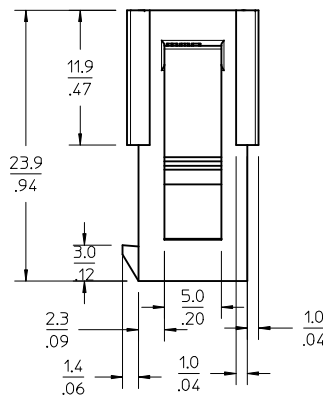
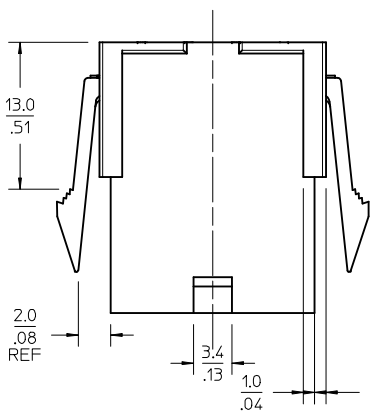
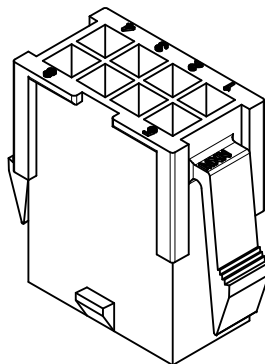
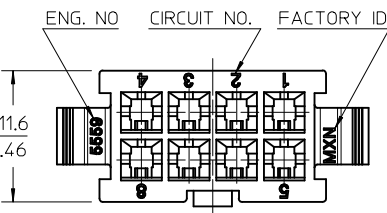
[5557d](#) Receptacle Housing

Use With

[5558](#) , [44478](#) , [30490](#) , [41995](#)

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# NOTES:

## 1) MATERIAL:

"BLANK" = NYLON 6/6, 94V-2, COLOR: NATURAL.

"BL" = NYLON 6/6, 94V-2, COLOR: BLACK.

"BU" = NYLON 6/6, 94V-2, COLOR: BLUE.

"RE" = NYLON 6/6, 94V-2, COLOR: RED.

"210" = NYLON 6/6, 94V-0, COLOR: NATURAL.

## 2) FINISH: NOT APPLICABLE

## 3) PRODUCT SPECIFICATION: PS-5556-001

## 4) PACKAGING: BULK

## 5) PART MATES WITH MOLEX RECEPTACLE #5557.

## 6) PART TO BE USED WITH MOLEX FEMALE TERMINAL #5558.

## 7) PART IS NOT DESIGNED FOR CURRENT SHARING.

## 8) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.

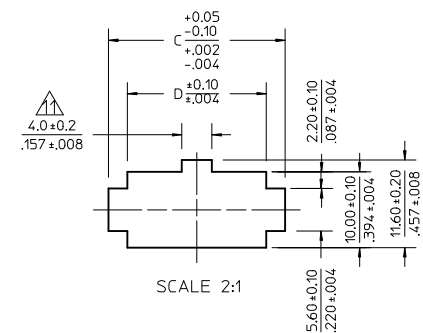
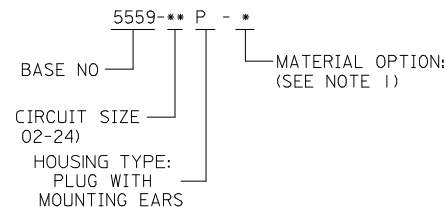
## 9) WIRES ARE TO BE DRESSED IN SUCH A MANNER TO ALLOW THE TERMINALS TO FLOAT FREELY IN THE POCKET.

## 10) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF DISCOLORATION, FLASH AND SINK MEET CLASS "C" REQUIREMENTS.

## 11) ON 2 CIRCUITS PARTS THIS DIMENSION IS ALLOWABLE UP TO "D" DIMENSION.

## 12) PANEL HOLE TO BE PUNCHED OUT IN THE SAME DIRECTION AS INSERTION INTO THE PANEL.

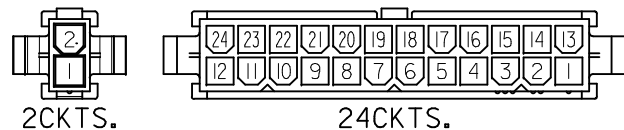
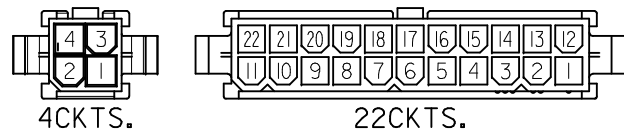
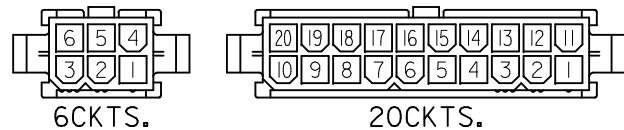
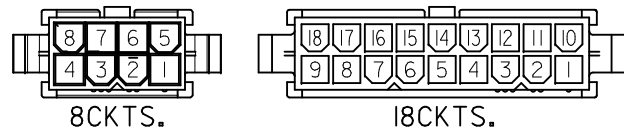
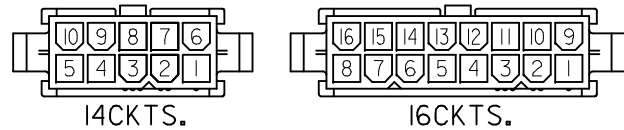
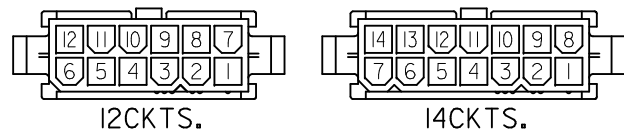
# LEGEND



RECOMMENDED PANEL HOLE DIMENSIONS  
(THICKNESS : 0.8-2.0/.032-.079)

|            |            |            |            |         |
|------------|------------|------------|------------|---------|
| 52.1/2.051 | 57.0/2.244 | 51.6/2.031 | 46.2/1.819 | 24      |
| 47.9/1.886 | 52.8/2.079 | 47.4/1.866 | 42.0/1.654 | 22      |
| 43.7/1.720 | 48.6/1.913 | 43.2/1.701 | 37.8/1.488 | 20      |
| 39.5/1.555 | 44.4/1.748 | 39.0/1.535 | 33.6/1.323 | 18      |
| 35.3/1.390 | 40.2/1.583 | 34.8/1.370 | 29.4/1.158 | 16      |
| 31.1/1.224 | 36.0/1.417 | 30.6/1.205 | 25.2/0.992 | 14      |
| 26.8/1.055 | 31.8/1.252 | 26.4/1.039 | 21.0/0.827 | 12      |
| 22.6/0.890 | 27.6/1.087 | 22.2/0.874 | 16.8/0.661 | 10      |
| 18.4/0.724 | 23.4/0.921 | 18.0/0.709 | 12.6/0.496 | 8       |
| 14.2/0.559 | 19.2/0.756 | 13.8/0.543 | 8.4/0.331  | 6       |
| 10.0/0.394 | 15.0/0.591 | 9.6/0.378  | 4.2/0.165  | 4       |
| 5.8/0.228  | 10.8/0.425 | 5.4/0.213  | —          | 2       |
| D          | C          | B          | A          | CIRCUIT |

|                                                                                                                               |             |                                                                 |                                                                                                                                  |  |  |                          |  |                    |                                                    |                        |  |  |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------|--|--------------------|----------------------------------------------------|------------------------|--|--|
| ADDED MODEL VIEWS<br>EC NO: UCP2010-0850<br>DRWN: JAGUILAR 2009/11/09<br>CHKD: J.BELL 2009/11/10<br>APPR: F.S.MITH 2009/11/10 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |  |  | DIMENSION STYLE<br>MM/IN |  | SCALE<br>3:1       | DESIGN UNITS<br>METRIC                             | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                               |             |                                                                 | <div>4 PLACES ± --- ± ---</div> <div>3 PLACES ± --- ± .012</div> <div>2 PLACES ± .30 ± .016</div> <div>1 PLACE ± .40 ± ---</div> |  |  | DRAWN BY<br>H.HIRAMOTO   |  | DATE<br>1988/10/14 | TITLE<br>NEW MINI. FIT CONNECTOR CRIMP PIN HOUSING |                        |  |  |
|                                                                                                                               |             |                                                                 |                                                                                                                                  |  |  | CHECKED BY<br>Y. YAMADA  |  | DATE<br>1988/10/21 | MOLEX INCORPORATED                                 |                        |  |  |
|                                                                                                                               |             |                                                                 | ANGULAR ± 3 °                                                                                                                    |  |  | APPROVED BY<br>M.ENOMOTO |  | DATE<br>1988/10/24 |                                                    |                        |  |  |
|                                                                                                                               |             |                                                                 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                             |  |  | MATERIAL NO.             |  | DOCUMENT NO.       |                                                    | SHEET NO.              |  |  |
|                                                                                                                               |             |                                                                 |                                                                                                                                  |  |  | SEE CHART                |  | SD-5559-NP         |                                                    | 1 OF 2                 |  |  |
| REV                                                                                                                           |             |                                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION    |  |  |                          |  |                    |                                                    |                        |  |  |



CIRCUIT SIZE LAYOUT (SCALE : 2-1)

| V-2<br>BLACK |             |         |
|--------------|-------------|---------|
|              |             | 24      |
|              |             | 22      |
|              |             | 20      |
|              |             | 18      |
|              |             | 16      |
|              |             | 14      |
|              |             | 12      |
|              |             | 10      |
|              |             | 8       |
| 39-02-8065   | 5569-06P-BL | 6       |
| 39-02-8045   | 5569-04P-BL | 4       |
| EDP NO.      | ENG. NO.    | CIRCUIT |

| V-2<br>BLUE |          |         | V-2<br>RED |             |         | V-0<br>NATURAL |              |         | V-2<br>NATURAL |          |         |
|-------------|----------|---------|------------|-------------|---------|----------------|--------------|---------|----------------|----------|---------|
|             |          | 24      |            |             | 24      | 39-01-2246     | 5559-24P-210 | 24      | 39-01-2241     | 5559-24P | 24      |
|             |          | 22      |            |             | 22      | ↑ -2226        | ↑ -22P-210   | 22      | ↑ -2221        | ↑ -22P   | 22      |
|             |          | 20      |            |             | 20      | ↑ -2206        | ↑ -20P-210   | 20      | ↑ -2201        | ↑ -20P   | 20      |
|             |          | 18      |            |             | 18      | ↑ -2186        | ↑ -18P-210   | 18      | ↑ -2181        | ↑ -18P   | 18      |
|             |          | 16      |            |             | 16      | ↑ -2166        | ↑ -16P-210   | 16      | ↑ -2161        | ↑ -16P   | 16      |
|             |          | 14      |            |             | 14      | ↑ -2146        | ↑ -14P-210   | 14      | ↑ -2141        | ↑ -14P   | 14      |
|             |          | 12      |            |             | 12      | ↑ -2126        | ↑ -12P-210   | 12      | ↑ -2121        | ↑ -12P   | 12      |
|             |          | 10      |            |             | 10      | ↑ -2106        | ↑ -10P-210   | 10      | ↑ -2101        | ↑ -10P   | 10      |
|             |          | 8       |            |             | 8       | ↑ -2086        | ↑ -08P-210   | 8       | ↑ -2081        | ↑ -08P   | 8       |
|             |          | 6       | 39-02-8067 | 5559-06P-RE | 6       | ↑ -2066        | ↑ -06P-210   | 6       | ↑ -2061        | ↑ -06P   | 6       |
|             |          | 4       | 39-02-8047 | 5559-04P-RE | 4       | ↑ -2046        | ↑ -04P-210   | 4       | ↑ -2041        | ↑ -04P   | 4       |
|             |          | 2       |            |             | 2       | 39-01-2026     | 5559-02P-210 | 2       | 39-01-2021     | 5559-02P | 2       |
| EDP NO.     | ENG. NO. | CIRCUIT | EDP NO.    | ENG. NO.    | CIRCUIT | EDP NO.        | ENG. NO.     | CIRCUIT | EDP NO.        | ENG. NO. | CIRCUIT |

|                                                                                                                         |             |                 |                                                            |  |                        |  |                                                                                                                               |              |                        |  |  |
|-------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------------|--|------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-0850<br>DRWN: JAGUILAR 2009/11/09<br>CHKD: J.BELL 2009/11/10<br>APPR: F.S.MITH 2009/11/10 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE        |  | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                         |             |                 |                                                            |  | MM/IN                  |  | 2:1                                                                                                                           | METRIC       |                        |  |  |
|                                                                                                                         |             |                 |                                                            |  | DRAWN BY DATE          |  | TITLE                                                                                                                         |              |                        |  |  |
|                                                                                                                         |             |                 | 4 PLACES ± --- ± ---                                       |  | H. HIRAMOTO 1988/10/14 |  | NEW MINI. FIT CONNECTOR<br>CRIMP PIN HOUSING                                                                                  |              |                        |  |  |
|                                                                                                                         |             |                 | 3 PLACES ± --- ± .012                                      |  | CHECKED BY DATE        |  |                                                                                                                               |              |                        |  |  |
|                                                                                                                         |             |                 | 2 PLACES ± .30 ± .016                                      |  | Y. YAMADA 1988/10/21   |  | MOLEX MOLEX INCORPORATED                                                                                                      |              |                        |  |  |
|                                                                                                                         |             |                 | 1 PLACE ± .40 ± ---                                        |  | APPROVED BY DATE       |  |                                                                                                                               |              |                        |  |  |
|                                                                                                                         |             |                 | ANGULAR ± 3 °                                              |  | M. ENOMOTO 1988/10/24  |  | SD-5559-NP                                                                                                                    |              |                        |  |  |
|                                                                                                                         |             |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | MATERIAL NO.           |  |                                                                                                                               |              |                        |  |  |
|                                                                                                                         |             |                 |                                                            |  | SIZE                   |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |  |  |