

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0511631200](#)  
**Status:** **Active**  
**Description:** 2.50mm (.098") Pitch Wire-to-Board Receptacle Housing, Positive Lock, With Retainer, 12 Circuits

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification PS-51163-001 \(PDF\)](#)  
[Product Specification PS-51163-002 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family Crimp Housings  
Series [51163](#)  
Product Name N/A

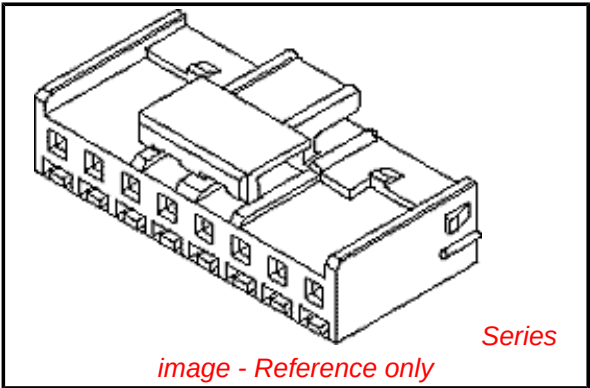
**Physical**

Circuits (maximum) 12  
Color - Resin Natural  
Flammability 94V-0  
Gender Female  
Glow-Wire Compliant No  
Material - Resin Polyester  
Number of Rows 1  
Packaging Type Bag  
Panel Mount No  
Pitch - Mating Interface (in) 0.098 In  
Pitch - Mating Interface (mm) 2.50 mm  
Stackable No  
Temperature Range - Operating -40°C to +105°C

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-51163-001, PS-51163-002, RPS-51103-047, RPS-51103-050, RPS-51163-001, RPS-51163-002, RPS-51163-003  
Sales Drawing SD-51163-\*\*00, SD-51163-001



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**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.

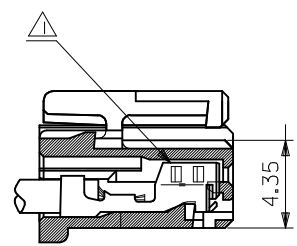
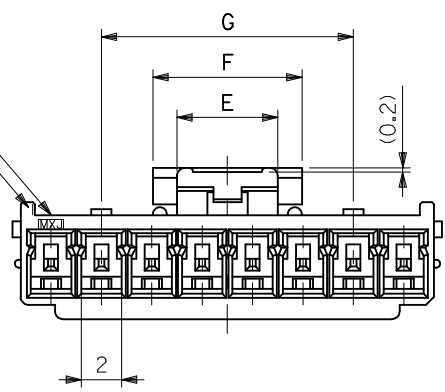
**Search Parts in this Series**  
[51163Series](#)

**Mates With**  
[53375](#) , [53426](#)

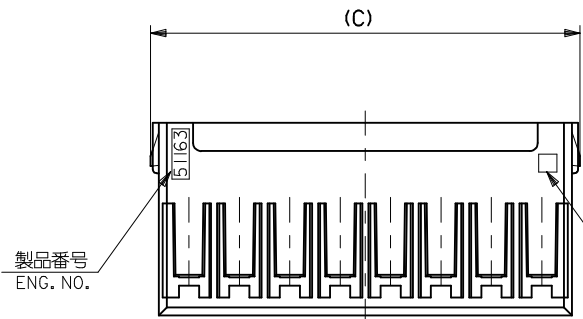
**Use With**  
[50351](#) , [50752](#) , [51164](#)

10 9 8 7 6 5 4 3 2 1

④  
トレードマーク  
TRADE MARK  
回路番号 1  
CIRCUIT NO.1

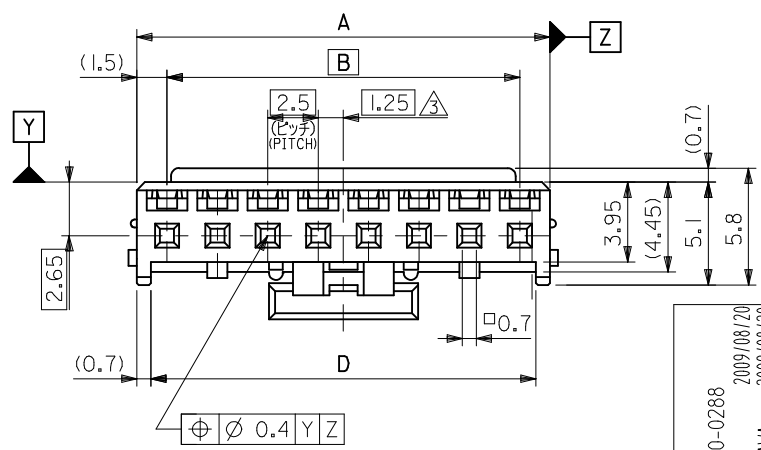
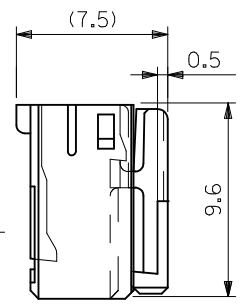


ターミナル装着状態図  
TERMINAL ASSEMBLY DRAWING



製品番号  
ENG. NO.

④  
キャビティー番号  
及び金型番号  
CAVITY NO.  
AND MODEL NO.

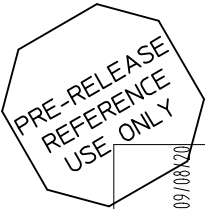


|      |     |   |      |      |      |      |                          |             |
|------|-----|---|------|------|------|------|--------------------------|-------------|
| 12.5 | 7.4 | 5 | 36.6 | 38.8 | 35   | 38   | 51163-158*               | 15          |
| ↑    | ↑   | ↑ | 34.1 | 36.3 | 32.5 | 35.5 | ↑ -148*                  | 14          |
|      |     |   | 31.6 | 33.8 | 30   | 33   | ↑ -138*                  | 13          |
|      |     |   | 29.1 | 31.3 | 27.5 | 30.5 | ↑ -128*                  | 12          |
|      |     |   | 26.6 | 28.8 | 25   | 28   | ↑ -118*                  | 11          |
|      |     |   | 24.1 | 26.3 | 22.5 | 25.5 | ↑ -108*                  | 10          |
|      |     |   | 21.6 | 23.8 | 20   | 23   | ↑ -098*                  | 9           |
| 12.5 |     |   | 19.1 | 21.3 | 17.5 | 20.5 | ↑ -088*                  | 8           |
|      |     |   | 16.6 | 18.8 | 15   | 18   | ↑ -078*                  | 7           |
|      |     |   | 14.1 | 16.3 | 12.5 | 15.5 | ↑ -068*                  | 6           |
|      |     |   | 11.6 | 13.8 | 10   | 13   | ↑ -058*                  | 5           |
|      | 7.4 | 5 | 9.1  | 11.3 | 7.5  | 10.5 | ↑ -048*                  | 4           |
|      | 5   | 3 | 6.6  | 8.8  | 5    | 8    | ↑ 51163-038*             | 3           |
| G    | F   | E | D    | (C)  | B    | A    | MATERIAL AND ORDER No. ④ | CIRCUIT No. |

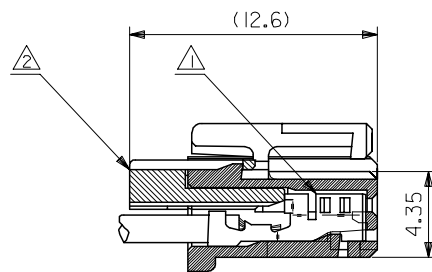
|                                                                                                                                    |                    |                                          |       |                             |                    |                                                                                                                                  |                        |                           |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|-------|-----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2010-0288<br>2009/08/20<br>DRWN:YGGT0<br>2009/08/20<br>CHKD:KASAKAWA<br>2009/08/20<br>APPR:NUKITA<br>2009/08/24 | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY  |                    | SCALE<br>4:1                                                                                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                    |                    | 10 UNDER                                 | ±0.2  | DRAWN BY<br>K. HARADA       | DATE<br>1997/10/2  | TITLE<br>2.5 W/B CONN HSG<br>(POSITIVE LOCK)                                                                                     |                        |                           |  |  |
|                                                                                                                                    |                    | 10 OVER 30 UNDER                         | ±0.25 | CHECKED BY<br>T. ITO        | DATE<br>1997/11/12 | MOLEX INCORPORATED<br>DOCUMENT NO. SD-51163-**00<br>SHEET NO. 1 OF 2                                                             |                        |                           |  |  |
|                                                                                                                                    |                    | 30 OVER                                  | ±0.3  | APPROVED BY<br>M. FUKUSHIMA | DATE<br>1997/11/12 |                                                                                                                                  |                        |                           |  |  |
|                                                                                                                                    |                    | ANGULAR ±3 °                             |       | ENTER PART                  |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                           |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                         |                    | SIZE<br>A3                               |       |                             |                    |                                                                                                                                  |                        |                           |  |  |

注記 NOTES

- △適合ターミナル：5035I-8\*00  
APPLICABLE TERMINAL：5035I-8\*00
2. 嵌合相手：53375,53426 シリーズ  
MATE WITH：53375,53426 SERIES
- △3. 偶数極の製品に適用。  
APPLY EVEN CIRCUIT PRODUCTS.
- △4. トレードマーク：Mプラス 1 ～ 2 文字のアルファベットにて構成。（例 MXJ）  
但し J は JAPANを示す。  
FORMED BY M AND 1 ～ 2 MORE LETTER OF ALPHABET (e.g. MXJ)  
(TO TRADE MARK), BUT "J" SHOW JAPAN.
- △5. キャビティー番号：1桁～2桁の数字  
金型番号：アルファベット1文字にて構成。（例. 1A, 10B）  
FORMED BY 1 DIGIT TO 2 DIGIT NUMBERS (TO CAVITY NO.) AND BY 1 LETTER OF ALPHABET (TO MOLD NO.).  
(e.g. 1A, 10B)
- △6. MATERIAL AND ORDER No.  
51163-\*\*00  
極数  
CIRCUIT SIZE
7. 材料:PBT, UL 94V-0
8. 色:白 WHITE (NATURAL)



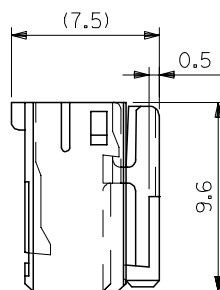
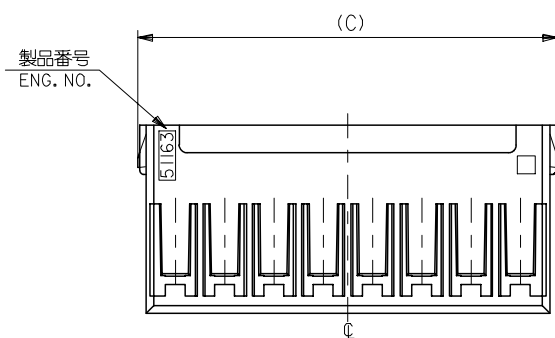
|                                                                 |             |                                                            |                                                                                                                                  |                             |                    |                                              |                        |                           |  |  |
|-----------------------------------------------------------------|-------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|----------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO:<br>DRWN:Y.GOTO<br>CHKD:KASAKAWA<br>APPR:<br>C | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY  |                    | SCALE<br>4:1                                 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                 |             | 10 UNDER                                                   | ±0.2                                                                                                                             | DRAWN BY<br>K. HARADA       | DATE<br>1997/10/2  | TITLE<br>2.5 W/B CONN HSG<br>(POSITIVE LOCK) |                        |                           |  |  |
|                                                                 |             | 10 OVER 30 UNDER                                           | ±0.25                                                                                                                            | CHECKED BY<br>T. ITO        | DATE<br>1997/11/12 |                                              |                        |                           |  |  |
|                                                                 |             | 30 OVER                                                    | ±0.3                                                                                                                             | APPROVED BY<br>M. FUKUSHIMA | DATE<br>1997/11/12 | MOLEX INCORPORATED                           |                        |                           |  |  |
|                                                                 |             | ANGULAR ±3 °                                               |                                                                                                                                  | MATERIAL NO.                |                    | DOCUMENT NO.                                 |                        | SHEET NO.                 |  |  |
|                                                                 |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | ENTER PART                  |                    | SD-51163-**00                                |                        | 2 OF 2                    |  |  |
|                                                                 | REV         |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                             |                    |                                              |                        |                           |  |  |



ターミナル及びリテーナー装着状態図  
 TERMINAL AND RETAINER ASSEMBLY DRAWING

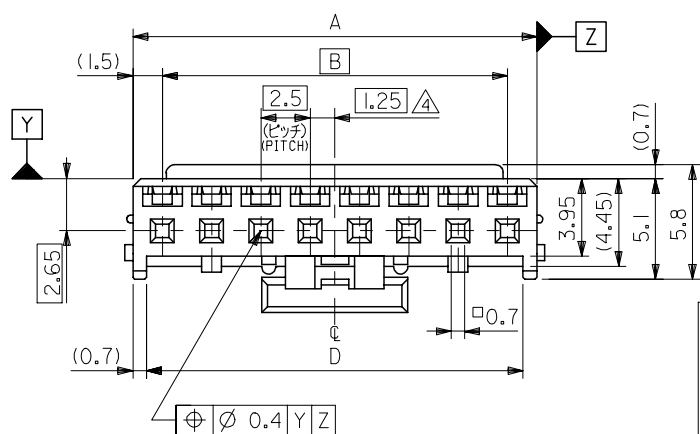
注記 NOTES

- △ 適合ターミナル : 50752-8\*00  
APPLICABLE TERMINAL : 50752-8\*00
- △ 適合リテーナー : 51164-\*\*05  
APPLICABLE RETAINER : 51164-\*\*05
3. 嵌合相手 : 53375,53376,53388,53389,53426 シリーズ  
MATE WITH : 53375,53376,53388,53389,53426 SERIES
- △ 偶数極の製品に適用。  
APPLY EVEN CIRCUIT PRODUCTS.



3-15 極に適用  
FOR 3-15 CKTS.

|                                                                                     |     |   |      |      |      |      |              |              |              |              |               |
|-------------------------------------------------------------------------------------|-----|---|------|------|------|------|--------------|--------------|--------------|--------------|---------------|
|  |     |   |      |      |      |      | 青<br>BLUE    | 赤<br>RED     | 黒<br>BLACK   | 白<br>NATURAL | COLOR         |
| 12.5                                                                                | 7.4 | 5 | 36.6 | 38.8 | 35   | 38   | 51163-1504   | 51163-1502   | 51163-1501   | 51163-1500   | 15            |
| 12.5                                                                                | ↑   | ↑ | 34.1 | 36.3 | 32.5 | 35.5 | ↑ -1404      | ↑ -1402      | ↑ -1401      | ↑ -1400      | 14            |
| 12.5                                                                                | ↑   | ↑ | 31.6 | 33.8 | 30   | 33   | ↑ -1304      | ↑ -1302      | ↑ -1301      | ↑ -1300      | 13            |
| 12.5                                                                                | ↑   | ↑ | 29.1 | 31.3 | 27.5 | 30.5 | ↑ -1204      | ↑ -1202      | ↑ -1201      | ↑ -1200      | 12            |
| 12.5                                                                                | ↑   | ↑ | 26.6 | 28.8 | 25   | 28   | ↑ -1104      | ↑ -1102      | ↑ -1101      | ↑ -1100      | 11            |
| 12.5                                                                                | ↑   | ↑ | 24.1 | 26.3 | 22.5 | 25.5 | ↑ -1004      | ↑ -1002      | ↑ -1001      | ↑ -1000      | 10            |
| 12.5                                                                                | ↑   | ↑ | 21.6 | 23.8 | 20   | 23   | ↑ -0904      | ↑ -0902      | ↑ -0901      | ↑ -0900      | 9             |
| 12.5                                                                                | ↑   | ↑ | 19.1 | 21.3 | 17.5 | 20.5 | ↑ -0804      | ↑ -0802      | ↑ -0801      | ↑ -0800      | 8             |
| X                                                                                   | ↑   | ↑ | 16.6 | 18.8 | 15   | 18   | ↑ -0704      | ↑ -0702      | ↑ -0701      | ↑ -0700      | 7             |
|                                                                                     | ↑   | ↑ | 14.1 | 16.3 | 12.5 | 15.5 | ↑ -0604      | ↑ -0602      | ↑ -0601      | ↑ -0600      | 6             |
|                                                                                     | ↑   | ↑ | 11.6 | 13.8 | 10   | 13   | ↑ -0504      | ↑ -0502      | ↑ -0501      | ↑ -0500      | 5             |
|                                                                                     | 7.4 | 5 | 9.1  | 11.3 | 7.5  | 10.5 | ↑ -0404      | ↑ -0402      | ↑ -0401      | ↑ -0400      | 4             |
|                                                                                     | 5   | 3 | 6.6  | 8.8  | 5    | 8    | 51163-0304   | 51163-0302   | 51163-0301   | 51163-0300   | 3             |
| G                                                                                   | F   | E | D    | (C)  | B    | A    | MATERIAL NO. | MATERIAL NO. | MATERIAL NO. | MATERIAL NO. | NO. OF<br>CKT |



MATERIAL  
PBTP, UL94V-0  
SEE CHART

|                                                                             |             |                                                            |        |                                                                                                                                             |                   |                                                                              |                        |                                                                                                                 |  |
|-----------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| REVISED<br>EC NO: J2005-1394<br>DRWN: SASAMOR<br>CHKD: TOJO<br>APPR: NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY                                                                                                                  |                   | SCALE<br>4:1                                                                 | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |  |
|                                                                             |             | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>J. SASAMO                                                                                                                       | DATE<br>2004/8/31 | TITLE<br>2.5 WIRE TO BORAD CONN.<br>HOUSING (POSITIVE LOCK)<br>WITH RETAINER |                        |                                                                                                                 |  |
|                                                                             |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>K. TOJO                                                                                                                       | DATE<br>2004/8/31 |                                                                              |                        |                                                                                                                 |  |
|                                                                             |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>N. UKITA                                                                                                                     | DATE<br>2004/8/31 |                                                                              |                        |                                                                                                                 |  |
|                                                                             |             | ANGULAR ±3 °                                               |        | MATERIAL NO.<br>51163-**0*                                                                                                                  |                   | DOCUMENT NO.<br>SD-51163-001                                                 |                        | SHEET NO.<br>1 OF 2                                                                                             |  |
|                                                                             | REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SIZE<br>A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                   |                                                                              |                        |                                                                                                                 |  |

