

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

**Part Number:** [0512335012](#)  
**Status:** **Active**  
**Description:** CRC™ Shielded Rectangular I/O Receptacle Housing for Male Terminal, Signal, 50 Circuits, Polarization Type A, Polarization Position C-5

**Documents:**  
[Drawing \(PDF\)](#) [Product Specification PS-51238-017 \(PDF\)](#)  
[Product Specification PS-51238-016 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

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

**General**

|                |                           |
|----------------|---------------------------|
| Product Family | I/O Connectors            |
| Series         | <a href="#">51233</a>     |
| Application    | Panel-Mount, Wire-to-Wire |
| Component Type | Housing                   |
| Product Name   | CRC™                      |
| Type           | N/A                       |

**Physical**

|                                |                 |
|--------------------------------|-----------------|
| Boot Color                     | N/A             |
| Circuits (Loaded)              | N/A             |
| Circuits (maximum)             | 50              |
| Color - Resin                  | Gray            |
| Durability (mating cycles max) | 100             |
| Flammability                   | 94V-0           |
| Gender                         | Receptacle      |
| Keying to Mating Part          | Yes             |
| Lock to Mating Part            | Yes             |
| Material - Metal               | Stainless Steel |
| Material - Plating Mating      | n/a             |
| Material - Resin               | Polyester       |
| Number of Rows                 | 10              |
| Orientation                    | Vertical        |
| PCB Locator                    | No              |
| Packaging Type                 | Tray            |
| Panel Mount                    | Front, Rear     |
| Pitch - Mating Interface (in)  | 0.118 In        |
| Pitch - Mating Interface (mm)  | 3.00 mm         |
| Pitch - Term. Interface (in)   | 0.118 In        |
| Pitch - Term. Interface (mm)   | 3.00 mm         |
| Polarized to Mating Part       | Yes             |
| Polarized to PCB               | N/A             |
| Ports                          | 1               |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -40°C to +105°C |
| Termination Interface: Style   | N/A             |
| Waterproof / Dustproof         | No              |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 7A               |
| Shielded                      | No               |
| Voltage - Maximum             | 250V AC (RMS)/DC |



image - Reference only

Series

**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**  
[51233Series](#)

**Mates With**  
51239-501X plug housing|54332-500X plug assembly set

**Use With**  
56116, 56117, 56118 and 56119 male terminal|56377-500\* receptacle shell

**Material Info**

**Reference - Drawing Numbers**

|                       |                            |
|-----------------------|----------------------------|
| Product Specification | PS-51238-016, PS-51238-017 |
| Sales Drawing         | SD-51233-013               |

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F

E

D

C

B

A

F

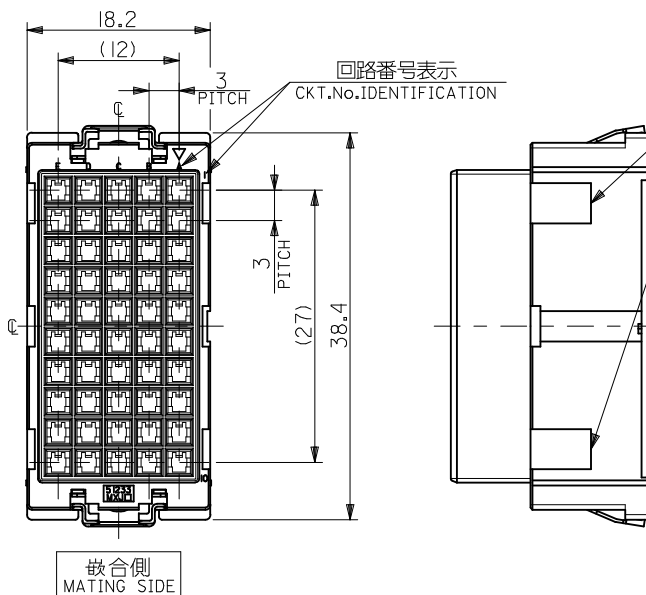
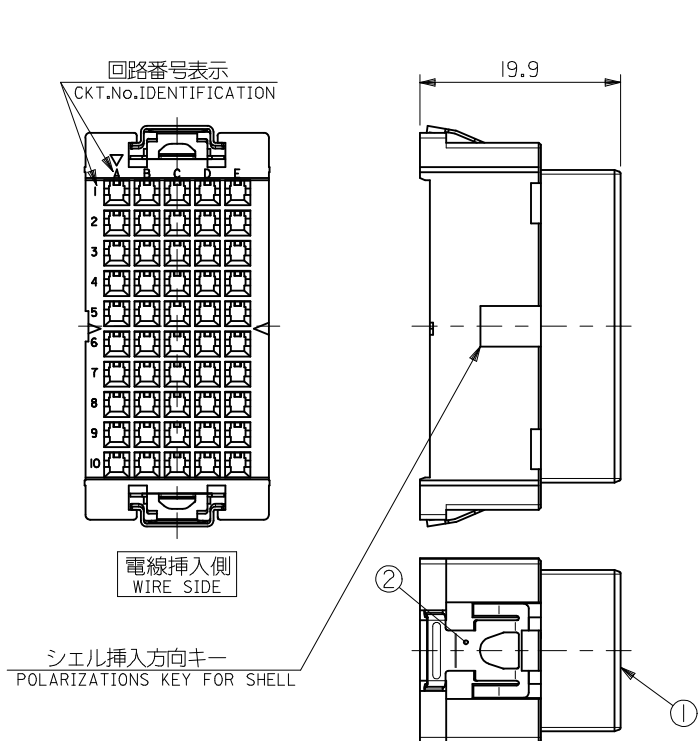
E

D

C

B

A



シェル挿入方向キー  
POLARIZATIONS KEY FOR SHELL

注記  
NOTES

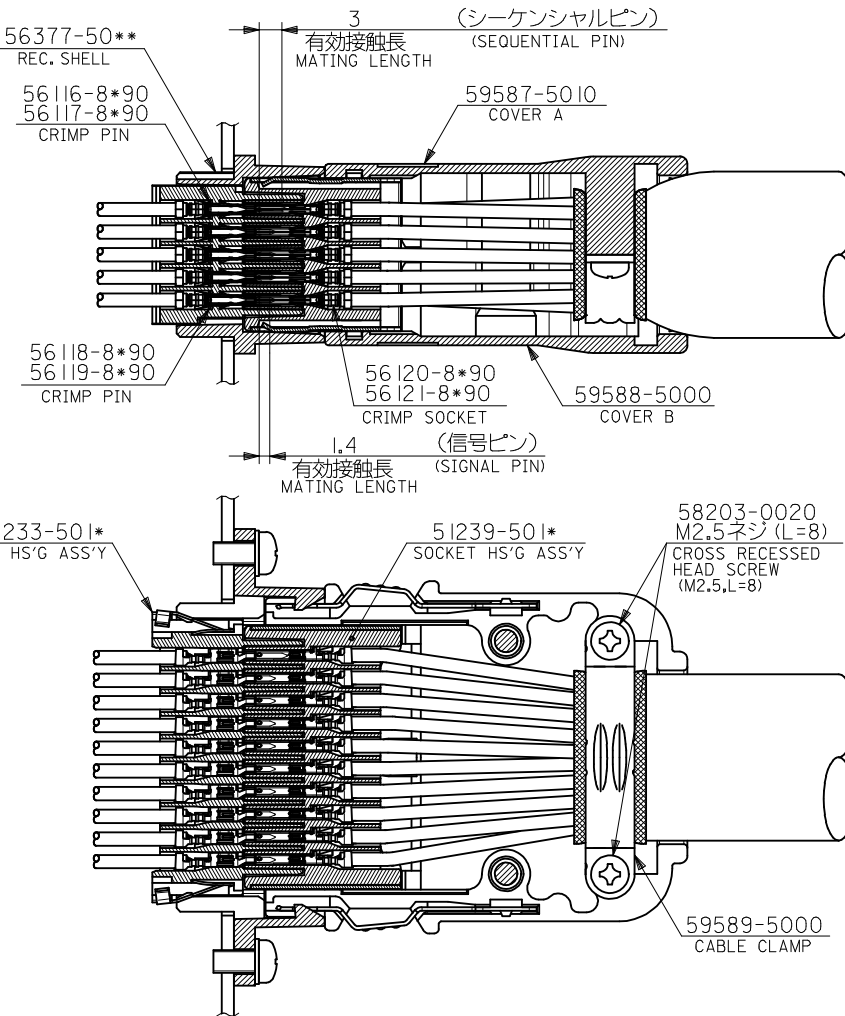
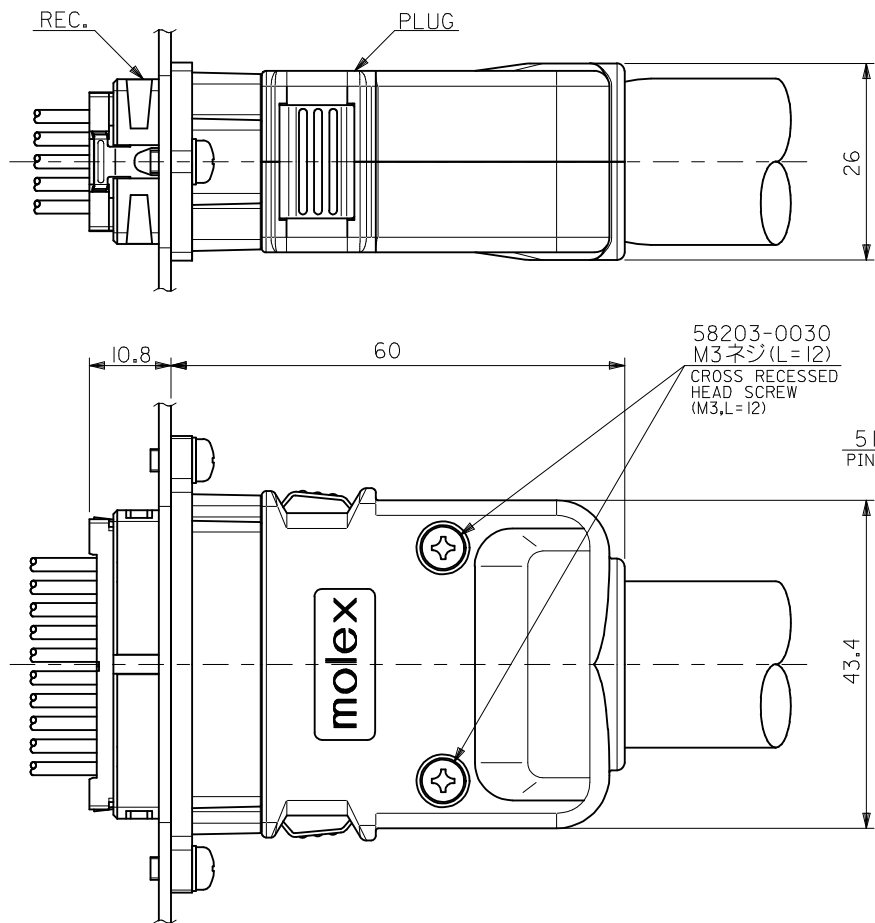
1. 材質  
MATERIAL  
①ハウジング：ガラス入りPBT樹脂  
HOUSING : PBT G.F.  
UL94V-0 色：灰  
UL94V-0 COLOR : GRAY  
②スプリング：ステンレス鋼 t0.3  
SPRING : STAINLESS STEEL t0.3
2. 適用端子：56116-8\*90 , 56117-8\*90  
56118-8\*90 , 56119-8\*90  
APPLECABLE CRIMP PIN : 56116-8\*90 , 56117-8\*90  
56118-8\*90 , 56119-8\*90
3. 適用リセプタクル シェル：56377-50\*\*  
APPLECABLE RECEPTACLE SHELL : 56377-50\*\*
4. 嵌合相手：51239-501\*  
MEET WITH : 51239-501\*

<誤嵌合防止キー（極性）タイプ> <POLARITY KEY TYPE>

| 51233-5011    | 51233-5012 | 51233-5013 | 51233-5014 |
|---------------|------------|------------|------------|
|               |            |            |            |
| STANDARD TYPE | A TYPE     | B TYPE     | C TYPE     |

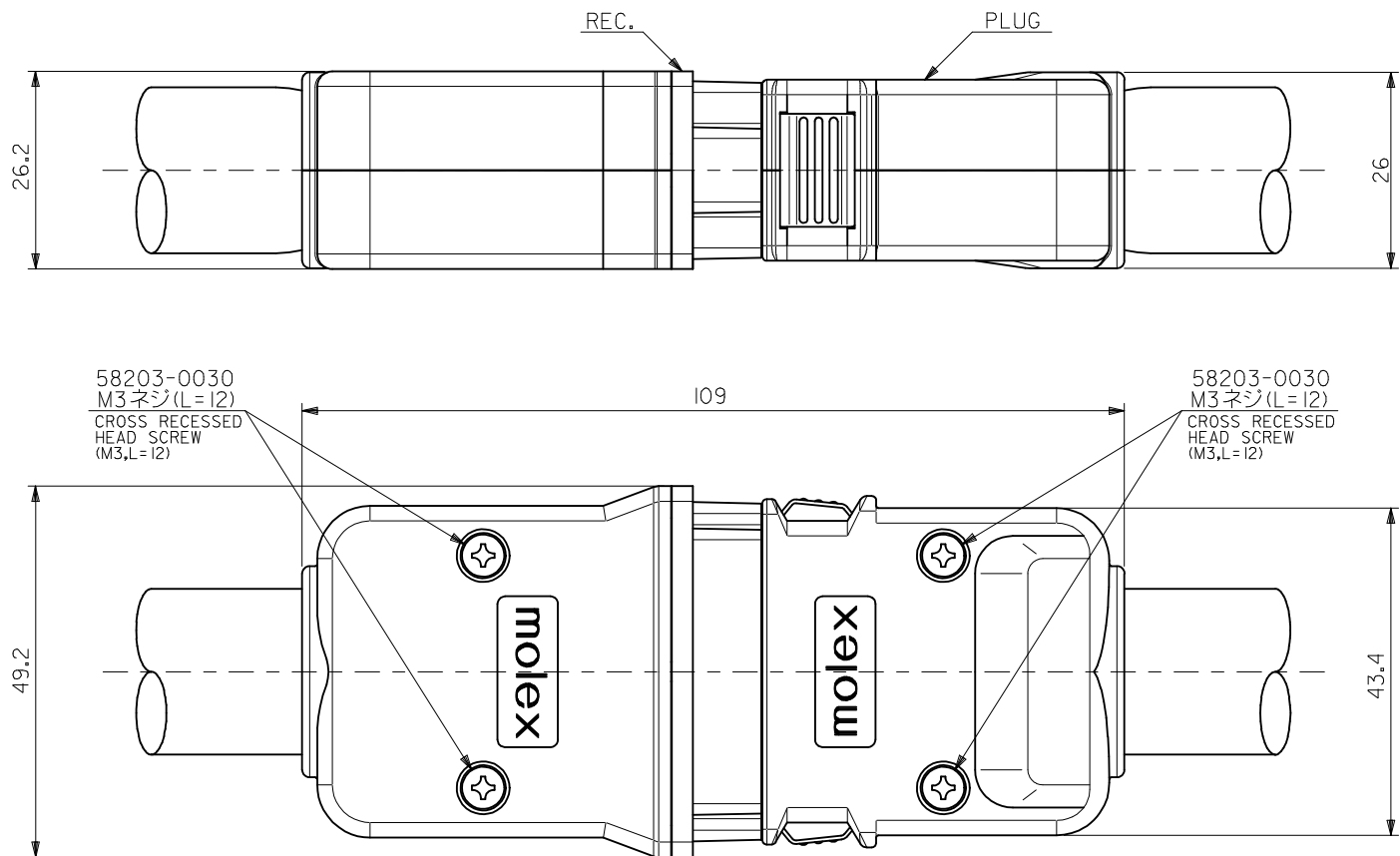
|                                    |                  |              |           |         |
|------------------------------------|------------------|--------------|-----------|---------|
| D-6                                | C                | 51233-5014   | 51233-*** | 50      |
| C-6                                | B                | 51233-5013   |           |         |
| C-5                                | A                | 51233-5012   |           |         |
| —#—                                | STANDARD         | 51233-5011   |           |         |
| POLARITY POSITION<br>(CIRCUIT NO.) | POLARITY<br>TYPE | MATERIAL NO. | MODEL NO. | CIRCUIT |

|                                                                                                                     |                                                            |                                                                                                                                  |           |                            |                   |                                                               |                        |                           |  |  |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------|-------------------|---------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-1104<br>DRWN: MAKURAA 2008/12/15<br>CHKD: T. HARUYAMA 2008/12/15<br>APPR: NUKITA 2008/12/15 | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |           | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>---                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                     |                                                            | 10 UNDER                                                                                                                         | ± 0.2     | DRAWN BY<br>S. AKIYAMA     | DATE<br>'02/01/21 | TITLE<br>COMPACT ROBOT CONN.<br>50CKT. REC. PIN HS'G<br>ASS'Y |                        |                           |  |  |
|                                                                                                                     |                                                            | 10 OVER 30 UNDER                                                                                                                 | ± 0.25    | CHECKED BY<br>J. MIYAZAWA  | DATE<br>'02/02/04 |                                                               |                        |                           |  |  |
|                                                                                                                     |                                                            | 30 OVER                                                                                                                          | ± 0.3     | APPROVED BY<br>Y. ITO      | DATE<br>'02/02/04 |                                                               |                        |                           |  |  |
|                                                                                                                     |                                                            | ANGULAR ±3 °                                                                                                                     |           | MATERIAL NO.               |                   | DOCUMENT NO.                                                  |                        | SHEET NO.                 |  |  |
|                                                                                                                     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE TABLE |                            | SD-51233-013      |                                                               | 1 OF 4                 |                           |  |  |
| B                                                                                                                   | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |           |                            |                   |                                                               |                        |                           |  |  |



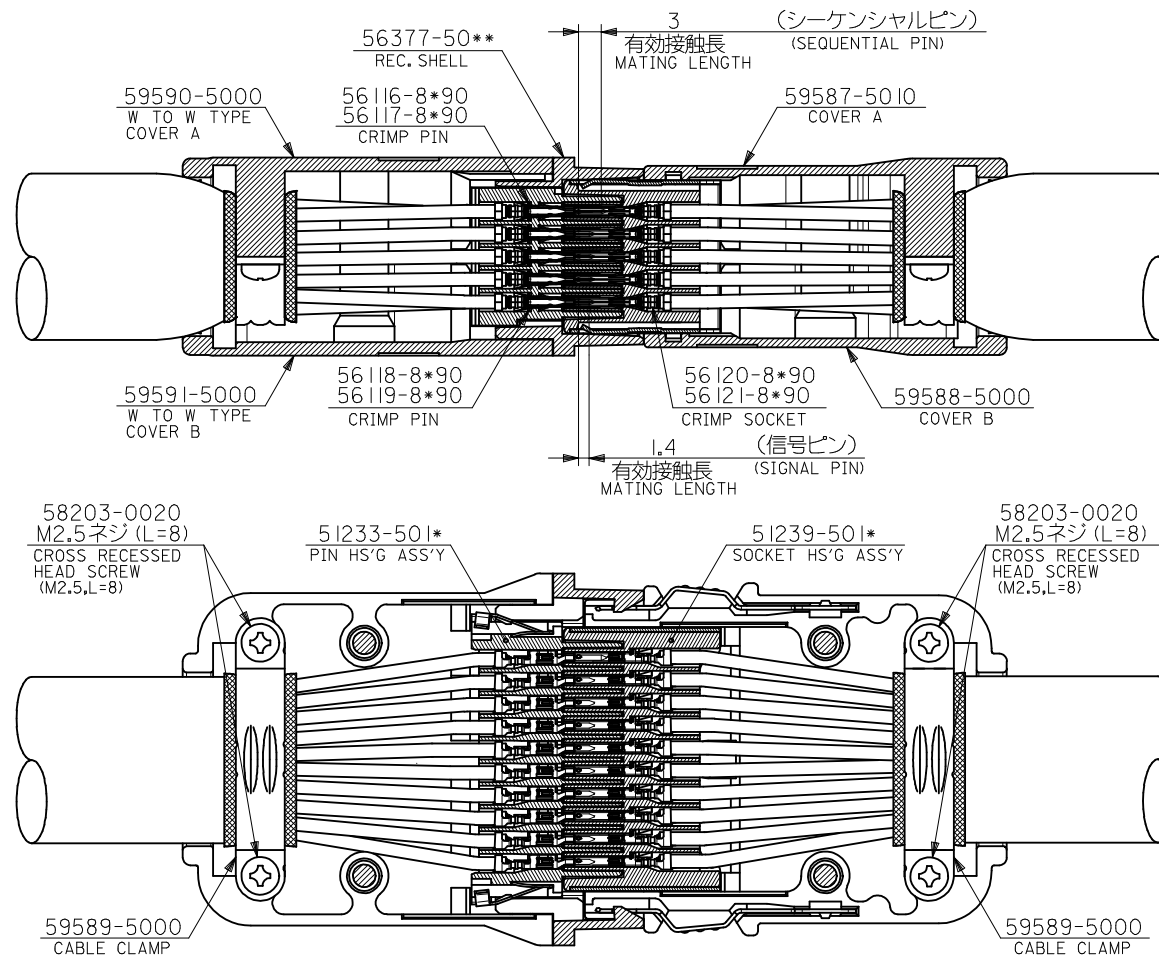
嵌合図  
CROSS-SECTION VIEW OF MATED CONNECTOR

|                                                                                       |             |                                                            |        |                            |                                                                                                                                  |                                                                                                                                                                           |                        |                                                                                                                 |                     |
|---------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| REVISED<br>EC NO: J2009-1104<br>DRAWN: NAKAMURA<br>CHK'D: T. HARUYAMA<br>APPR: NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>---                                                                                                                                                              | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |                     |
|                                                                                       |             | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>S. AKIYAMA     | DATE<br>'02/01/21                                                                                                                | TITLE<br>COMPACT ROBOT CONN.<br>50CKT. REC. PIN HS'G<br>ASS'Y<br> MOLEX INCORPORATED |                        |                                                                                                                 |                     |
|                                                                                       |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>J. MIYAZAWA  | DATE<br>'02/02/04                                                                                                                |                                                                                                                                                                           |                        |                                                                                                                 |                     |
|                                                                                       |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>Y. ITO      | DATE<br>'02/02/04                                                                                                                |                                                                                                                                                                           |                        |                                                                                                                 |                     |
|                                                                                       |             | ANGULAR ±3 °                                               |        | MATERIAL NO.               |                                                                                                                                  |                                                                                                                                                                           |                        |                                                                                                                 |                     |
|                                                                                       |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE SHEET 1                |                                                                                                                                  |                                                                                                                                                                           |                        |                                                                                                                 |                     |
| REV                                                                                   |             |                                                            |        | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                                                                                           |                        | DOCUMENT NO.<br>SD-51233-013                                                                                    | SHEET NO.<br>2 OF 4 |



嵌合図 (中継タイプ)  
CROSS-SECTION VIEW OF MATED CONNECTOR  
(WIRE TO WIRE TYPE)

|                                                                                     |                                                            |                                          |                                                                                                                                  |                            |                   |                                                               |                        |                           |  |  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------|---------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-1104<br>DRWN: NAKAMURA<br>CHKD: T. HARIYAMA<br>APPR: NUKITA | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>---                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                     |                                                            | 10 UNDER                                 | ± 0.2                                                                                                                            | DRAWN BY<br>S. AKIYAMA     | DATE<br>'02/01/29 | TITLE<br>COMPACT ROBOT CONN.<br>50CKT. REC. PIN HS'G<br>ASS'Y |                        |                           |  |  |
|                                                                                     |                                                            | 10 OVER 30 UNDER                         | ± 0.25                                                                                                                           | CHECKED BY<br>J. MIYAZAWA  | DATE<br>'02/01/29 |                                                               |                        |                           |  |  |
|                                                                                     |                                                            | 30 OVER                                  | ± 0.30                                                                                                                           | APPROVED BY<br>Y. ITO      | DATE<br>'02/01/29 |                                                               |                        |                           |  |  |
|                                                                                     |                                                            | ANGULAR ±3 °                             |                                                                                                                                  | MATERIAL NO.               |                   | DOCUMENT NO.                                                  |                        | SHEET NO.                 |  |  |
|                                                                                     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE SHEET 1                                                                                                                      |                            | SD-51233-013      |                                                               | 3 OF 4                 |                           |  |  |
|                                                                                     | B                                                          | REV                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                   |                                                               |                        |                           |  |  |



嵌合図 (中継タイプ)  
CROSS-SECTION VIEW OF MATED CONNECTOR  
(WIRE TO WIRE TYPE)

|                                                                                         |             |                                                            |        |                                                                                                                                  |                   |                                                               |                              |                                                                                                                 |                     |
|-----------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| REVISED<br>EC NO: J2009-1104<br>DRWN:NAKAMURA<br>CHKD: HARUYAMA<br>APPR:NUKITA<br>REV B | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY                                                                                                       |                   | SCALE<br>---                                                  | DESIGN UNITS<br>METRIC       |  THIRD ANGLE<br>PROJECTION |                     |
|                                                                                         |             | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>S. AKIYAMA                                                                                                           | DATE<br>'02/01/29 | TITLE<br>COMPACT ROBOT CONN.<br>50CKT. REC. PIN HS'G<br>ASS'Y |                              |                                                                                                                 |                     |
|                                                                                         |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>J. MIYAZAWA                                                                                                        | DATE<br>'02/02/04 |                                                               |                              |                                                                                                                 |                     |
|                                                                                         |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>Y. ITO                                                                                                            | DATE<br>'02/02/04 |                                                               |                              |                                                                                                                 |                     |
|                                                                                         |             | ANGULAR ±3 °                                               |        | MATERIAL NO.<br>SEE SHEET 1                                                                                                      |                   |                                                               | DOCUMENT NO.<br>SD-51233-013 |                                                                                                                 | SHEET NO.<br>4 OF 4 |
|                                                                                         | REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                   |                                                               |                              |                                                                                                                 |                     |
|                                                                                         |             |                                                            |        |                                                                                                                                  |                   |                                                               |                              |                                                                                                                 |                     |

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

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