

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

**Part Number:** [0512382011](#)  
**Status:** **Active**  
**Description:** CRC™ Shielded Rectangular I/O Receptacle Housing for Female Terminal, Signal, 20 Circuits, Polarization Type Standard

**Documents:**  
[Drawing \(PDF\)](#) [Product Specification PS-51238-018 \(PDF\)](#)  
[Product Specification PS-51238-010 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

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

**General**

|                |                           |
|----------------|---------------------------|
| Product Family | I/O Connectors            |
| Series         | <a href="#">51238</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)             | 20              |
| Color - Resin                  | Black           |
| 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                 | 5               |
| 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) | N/A             |
| Temperature Range - Operating  | -40°C to +105°C |
| Termination Interface: Style   | N/A             |
| Waterproof / Dustproof         | No              |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 1A, 2A, 3.5A, 3A |
| 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**  
[51238Series](#)

**Mates With**  
51234-200X plug housing|55836-200X plug assembly set

**Use With**  
56377-200\* receptacle shell|56120 and 56121 female terminal

**Material Info**

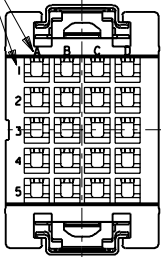
**Reference - Drawing Numbers**

|                       |                                           |
|-----------------------|-------------------------------------------|
| Product Specification | PS-51238-010, PS-51238-018, RPS-51238-001 |
| Sales Drawing         | SD-51238-008                              |

This document was generated on 04/12/2010

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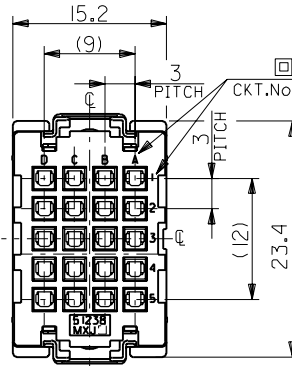
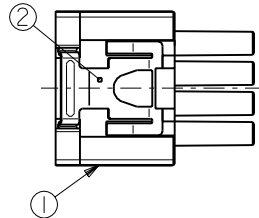
回路番号表示  
CKT.No.IDENTIFICATION



電線挿入側  
WIRE SIDE

19.7

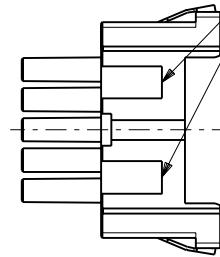
シエル挿入方向キー  
POLARIZATIONS KEY FOR SHELL



嵌合側  
MATING SIDE

回路番号表示  
CKT.No.IDENTIFICATION

シエル挿入方向キー  
POLARIZATIONS KEY FOR SHELL



注記  
NOTES

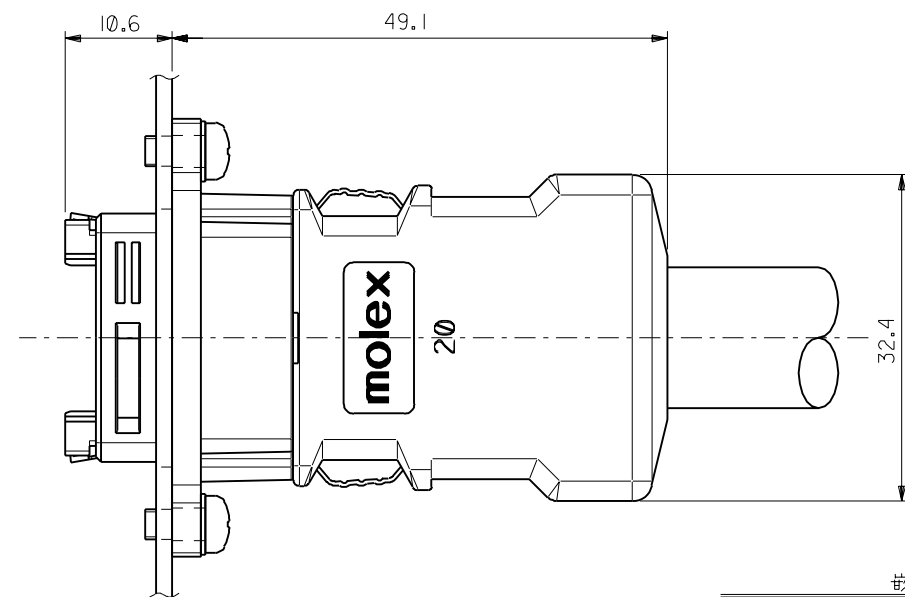
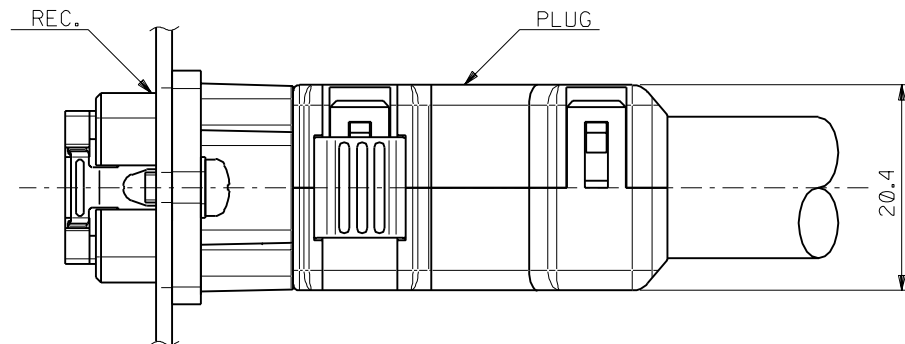
1. 材 質  
MATERIAL  
①ハウジング：ガラス入りPBT樹脂  
HOUSING : PBT G.F.  
UL 94V-0 色：黒  
UL 94V-0 COLOR : BLACK  
②スプリング：ステンレス鋼 t0.3  
SPRING : STAINLESS STEEL t0.3
2. 適用端子：56120-8\*90 , 56121-8\*90  
APPLICABLE CRIMP PIN : 56120-8\*90 , 56121-8\*90
3. 適用リセプタクル シエル：56377-20\*\*  
APPLICABLE RECEPTACLE SHELL : 56377-20\*\*
4. 嵌合相手：51234-200\*  
MEET WITH : 51234-200\*

<誤嵌合防止キー（極性）タイプ> <POLARITY KEY TYPE>

| 51238-2011    | 51238-2012 | 51238-2013 | 51238-2014 | 51238-2015 |
|---------------|------------|------------|------------|------------|
|               |            |            |            |            |
| STANDARD TYPE | A TYPE     | B TYPE     | C TYPE     | D TYPE     |

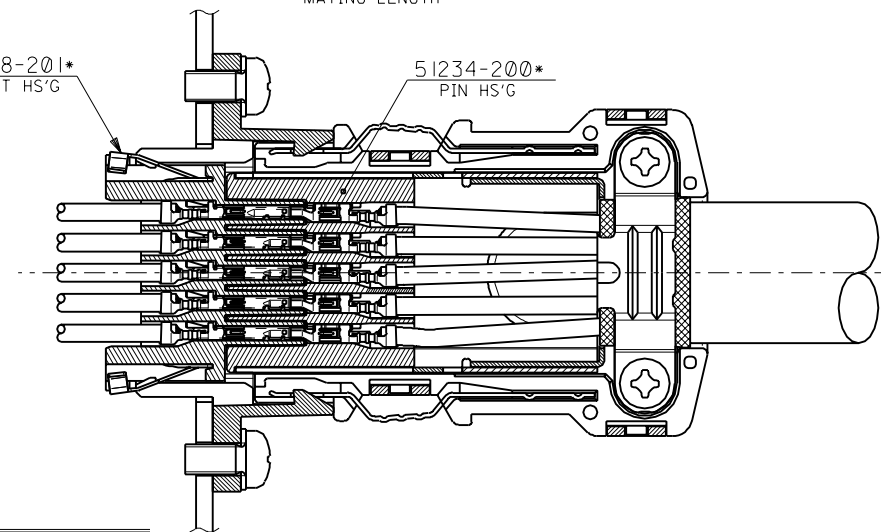
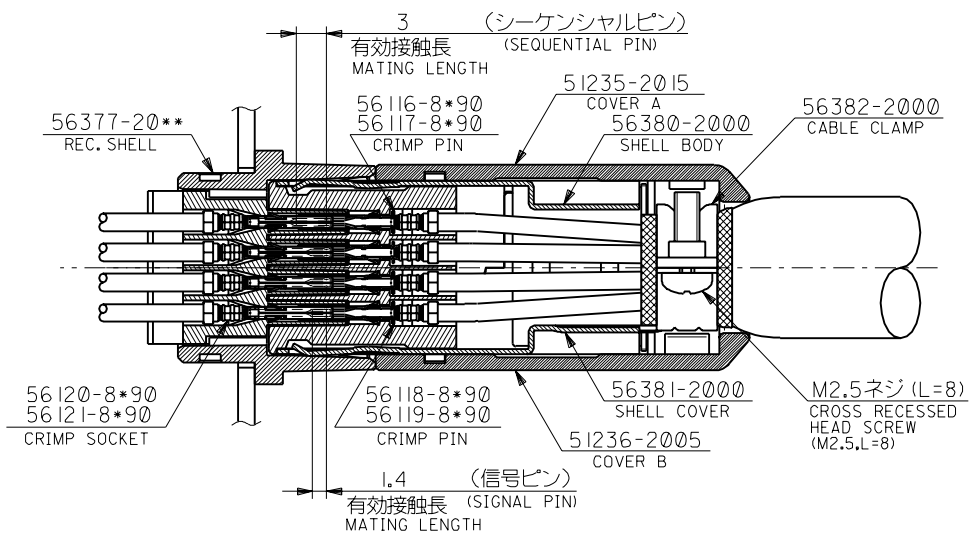
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|------------------------------------|------------------|--------------|-----------|---------|
| C-4                                | D                | 51238-2015   | 51238-*** | 20      |
| C-3                                | C                | 51238-2014   |           |         |
| B-3                                | B                | 51238-2013   |           |         |
| B-2                                | A                | 51238-2012   |           |         |
| —#—                                | STANDARD         | 51238-2011   |           |         |
| POLARITY POSITION<br>(CIRCUIT No.) | POLARITY<br>TYPE | MATERIAL No. | MODEL No. | CIRCUIT |

|                                  |                                  |                                  |                                                                                              |                                                                                                   |                        |                                     |                                                                                                                                |                                           |                                                               |                           |                             |                       |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------|-----------------------------|-----------------------|
| EC NO.<br>DRWN:<br>CHK:<br>APPR: | EC NO.<br>DRWN:<br>CHK:<br>APPR: | EC NO.<br>DRWN:<br>CHK:<br>APPR: | REVISED '01/10/04<br>EC NO. J2002-0786<br>DRWN: S.AKIYAMA<br>CHK: J.MIYAZAWA<br>APPR: YO.ITO | RELEASED '01/02/16<br>EC NO. JD2001-1040<br>DRWN: S.AKIYAMA<br>CHK: J.MIYAZAWA<br>APPR: H.IKESUGI | DESCRIPTION<br>記述<br>— | MATERIAL<br>材料<br>注記参照<br>SEE NOTES | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)<br>一般公差                                                                              | SCALE<br>2-1                              | DESIGN UNITS<br>mm INCH                                       | THIRD ANGLE<br>PROJECTION | mm INCH INCH mm ONLY        | REVISE ON<br>CAD ONLY |
|                                  |                                  |                                  |                                                                                              |                                                                                                   |                        | 10 UNDER<br>未満                      | ±0.2                                                                                                                           | DRAWN BY & DATE<br>S. Akiyama 01/01/25    | TITLE:<br>COMPACT ROBOT CONN. (CRC)<br>REC. SOCKET HS'G ASS'Y |                           |                             |                       |
|                                  |                                  |                                  |                                                                                              |                                                                                                   |                        | 10 OVER 30 UNDER<br>以上 未満           | ±0.25                                                                                                                          | CHECKED BY & DATE<br>J. Miyazawa / Y. Ito |                                                               |                           |                             |                       |
|                                  |                                  |                                  |                                                                                              |                                                                                                   |                        | 30 OVER<br>以上                       | ±0.3                                                                                                                           | APPROVED BY & DATE<br>H. Ikesugi          | MOLEX INCORPORATED                                            |                           |                             |                       |
| EC NO.<br>DRWN:<br>CHK:<br>APPR: | EC NO.<br>DRWN:<br>CHK:<br>APPR: | EC NO.<br>DRWN:<br>CHK:<br>APPR: | A                                                                                            | Ø                                                                                                 | REV                    | WIRE RANGE<br>適用電線範囲<br>—           | ANGLE 角度                                                                                                                       | ±3°                                       | CAD FILE NAME<br>51238008.S01                                 | MATERIAL NO.<br>SEE CHART | DRAWING NO.<br>SD-51238-008 | SHEET NO.<br>1 OF 4   |
|                                  |                                  |                                  |                                                                                              |                                                                                                   |                        | INS. RANGE<br>被覆外径<br>—             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                                           |                                                               |                           |                             |                       |



嵌合図

CROSS-SECTION VIEW OF MATED CONNECTOR



|                                   |                                   |                                   |                                                                                                 |                                                                                       |                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                       |                                                                                                                                                                                                            |                                                                            |                                                                                                                                |           |
|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------|
| EC NO.<br>DRWN:<br>CHK'g<br>APPR: | EC NO.<br>DRWN:<br>CHK'g<br>APPR: | EC NO.<br>DRWN:<br>CHK'g<br>APPR: | REVISED 01/10/04<br>EC NO. J2002-0786<br>DRWN: S. AKIYAMA<br>CHK'g: J. MIYAZAWA<br>APPR: Y. ITO | 0<br>EC NO. JD2001-1040<br>DRWN: S. AKIYAMA<br>CHK'g: J. MIYAZAWA<br>APPR: H. IKESUGI | DESCRIPTION<br>MATERIAL<br>材料<br>注記参照<br>SEE NOTES<br>FINISH<br>仕上げ<br>—<br>WIRE RANGE<br>適用電線範囲<br>—<br>INS. RANGE<br>被覆外径<br>— | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)<br>一般公差<br>10 UNDER<br>未満<br>±0.2<br>10 OVER 30 UNDER<br>以上 未満<br>±0.25<br>30 OVER<br>以上<br>±0.3<br>ANGLE 角度<br>±3° | SCALE<br>2-1<br>DRAWN BY & DATE<br>S. Akiyama / 01/25<br>CHECKED BY & DATE<br>J. Miyazawa / 3/06<br>APPROVED BY & DATE<br>H. Ikesugi<br>CAD FILE NAME<br>51238008.S01 | DESIGN UNITS<br>mm □ INCH<br>THIRD ANGLE<br>PROJECTION<br>TITLE:<br>COMPACT ROBOT CONN. (CRC)<br>REC. SOCKET HS'G ASS'Y<br>MATERIAL NO.<br>SEE CHART<br>DRAWING NO.<br>SD-51238-008<br>SHEET NO.<br>2 OF 4 | DIMENSIONS:<br>mm □ INCH<br>mm ONLY<br>SHT<br>REV<br>REVISE ON<br>CAD ONLY | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | SIZE<br>B |
|                                   |                                   |                                   |                                                                                                 |                                                                                       |                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                       |                                                                                                                                                                                                            |                                                                            |                                                                                                                                |           |

[illegible]

DWG. NO.  
SD-51233-008

F

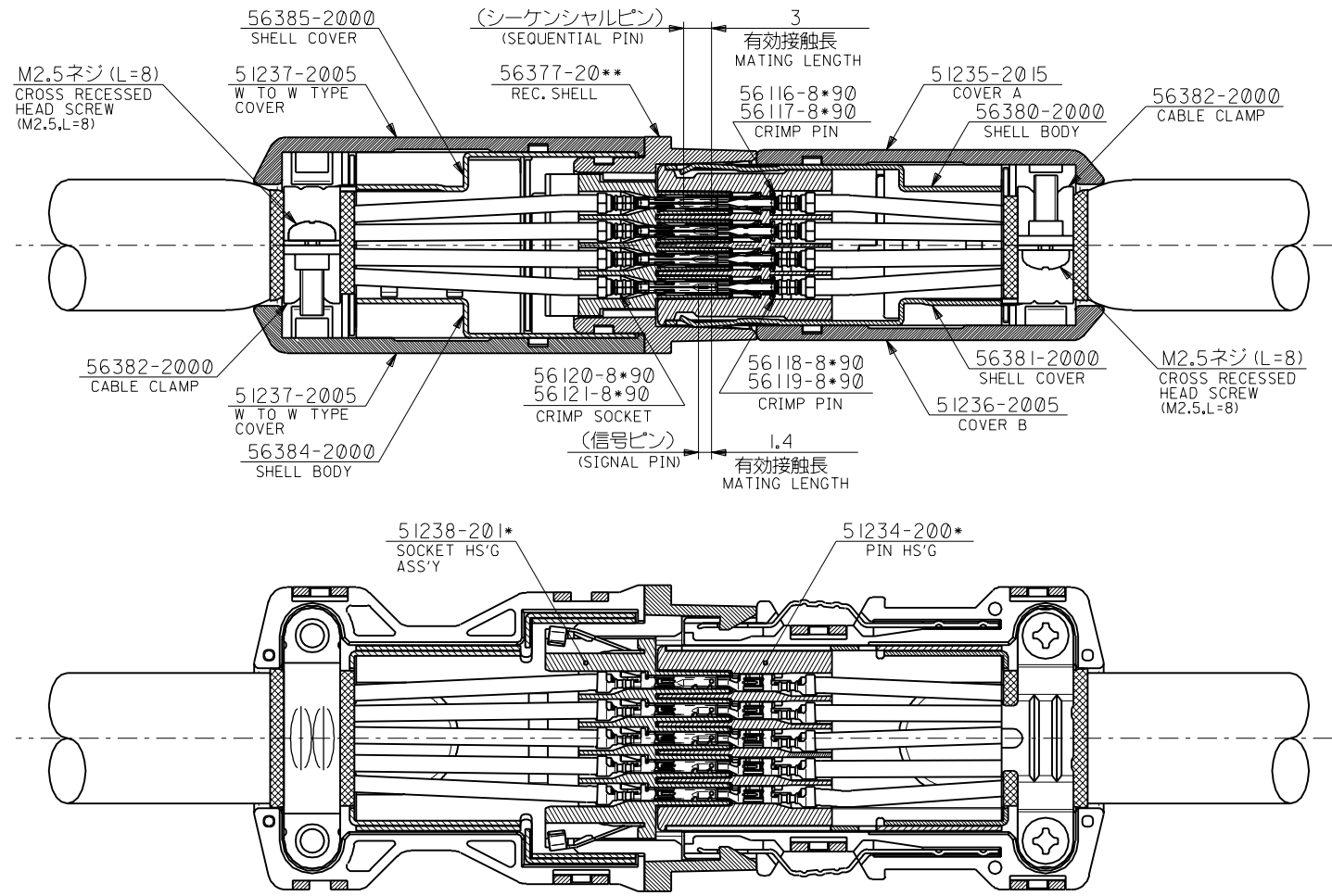
D

A

C

B

DO NOT SCALE DRAWING



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

|                                  |  |  |                                  |  |  |                                  |  |  |                                                                                             |                                                                                                 |             |                                         |                                                   |                                                                                                                                |                                                                                      |                                                                                                                 |                                                                                                               |                             |                       |  |  |  |  |  |  |           |
|----------------------------------|--|--|----------------------------------|--|--|----------------------------------|--|--|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--|--|--|--|--|--|-----------|
| EC NO.<br>DRWN:<br>CHK:<br>APPR: |  |  | EC NO.<br>DRWN:<br>CHK:<br>APPR: |  |  | EC NO.<br>DRWN:<br>CHK:<br>APPR: |  |  | REVISED 01/10/04<br>EC NO. J2002-0786<br>DRWN: S.AKIYAMA<br>CHK: J.MIYAZAWA<br>APPR: YO.ITO | RELEASED 01/02/16<br>EC NO. JD2001-1040<br>DRWN: S.AKIYAMA<br>CHK: J.MIYAZAWA<br>APPR: HIKESUGI | DESCRIPTION | MATERIAL<br>材料<br><br>注記参照<br>SEE NOTES | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)<br>一般公差 | SCALE<br>2-1                                                                                                                   | DESIGN UNITS<br><input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH |  THIRD ANGLE<br>PROJECTION | <input type="checkbox"/> mm<br>INCH <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY | SHEET NO.<br>4 OF 4         | REVISE ON<br>CAD ONLY |  |  |  |  |  |  |           |
|                                  |  |  |                                  |  |  |                                  |  |  |                                                                                             |                                                                                                 |             | 10 UNDER<br>未満                          | ±0.2                                              | DRAWN BY & DATE<br>S. Akiyama 01/01/25                                                                                         |                                                                                      | TITLE:<br>COMPACT ROBOT CONN. (CRC)<br>REC. SOCKET HS'G ASS'Y                                                   |                                                                                                               |                             |                       |  |  |  |  |  |  |           |
|                                  |  |  |                                  |  |  |                                  |  |  |                                                                                             |                                                                                                 |             | 10 OVER 30 UNDER<br>以上 未満               | ±0.25                                             | CHECKED BY & DATE<br>J. Miyazawa / Y. Ito                                                                                      |                                                                                      |                                                                                                                 |                                                                                                               |                             |                       |  |  |  |  |  |  |           |
|                                  |  |  |                                  |  |  |                                  |  |  |                                                                                             |                                                                                                 |             | 30 OVER<br>以上                           | ±0.3                                              | APPROVED BY & DATE<br>S. Akiyama                                                                                               |                                                                                      | MOLEX INCORPORATED                                                                                              |                                                                                                               |                             |                       |  |  |  |  |  |  |           |
|                                  |  |  |                                  |  |  |                                  |  |  |                                                                                             |                                                                                                 |             | WIRE RANGE<br>適用電線範囲                    | —                                                 | ANGLE 角度                                                                                                                       | ±3°                                                                                  | CAD FILE NAME<br>51238008.S04                                                                                   | MATERIAL NO.<br>SEE CHART                                                                                     | DRAWING NO.<br>SD-51238-008 | SHEET NO.<br>4 OF 4   |  |  |  |  |  |  |           |
|                                  |  |  |                                  |  |  |                                  |  |  |                                                                                             |                                                                                                 |             | INS. RANGE<br>被覆外径                      | —                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                                                                                      |                                                                                                                 |                                                                                                               |                             |                       |  |  |  |  |  |  | SIZE<br>B |

F

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51238008.S04