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Part Number: [0512332012](#)
Status: **Active**
Description: CRC™ Shielded Rectangular I/O Receptacle Housing for Male Terminal, Signal, 20 Circuits, Polarization Type A, Polarization Position B-2

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	51233
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)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	N/A
Waterproof / Dustproof	No

Electrical

Current - Maximum per Contact	3.5A
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
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
51239-200X plug housing|54332-200X plug assembly set

Use With
56116, 56117, 56118 and 56119 male terminal|56377-200* receptacle shell

Material Info

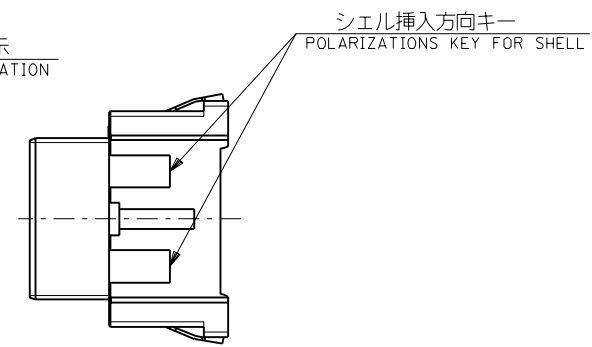
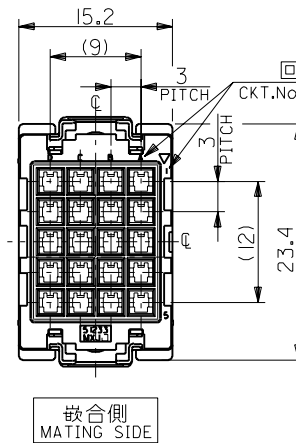
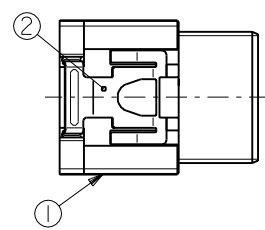
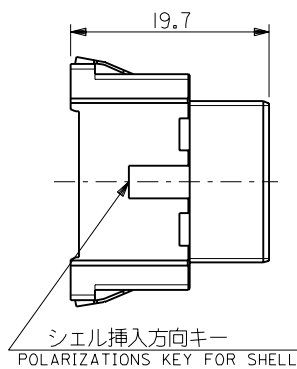
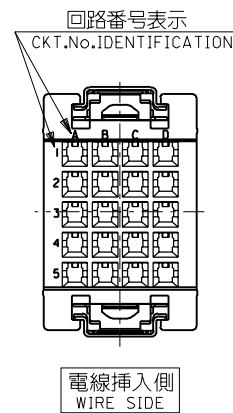
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-51238-010, PS-51238-018, RPS-51238-001
SD-51233-008

This document was generated on 04/12/2010

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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：56116-8*90 , 56117-8*90
56118-8*90 , 56119-8*90
APPLICABLE 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：56377-20**
APPLICABLE RECEPTACLE SHELL : 56377-20**
4. 嵌合相手：51239-200*
MEET WITH : 51239-200*

<誤嵌合防止キー（極性）タイプ> <POLARITY KEY TYPE>

51233-2011	51233-2012	51233-2013	51233-2014	51233-2015
STANDARD TYPE	A TYPE	B TYPE	C TYPE	D TYPE

C-4	D	51233-2015	51233-***	20
C-3	C	51233-2014		
B-3	B	51233-2013		
B-2	A	51233-2012		
—#—	STANDARD	51233-2011		
POLARITY POSITION (CIRCUIT No.)	POLARITY TYPE	MATERIAL No.	MODEL No.	CIRCUIT

EC NO. DRWN: CHK'g APPR:		EC NO. DRWN: CHK'g APPR:		EC NO. DRWN: CHK'g APPR:		REVISED 01/10/04 EC NO. J2002-0786 DRWN: S. AKIYAMA CHK'g: J. MIYAZAWA APPR: Y. ITO	RELEASED 01/02/16 EC NO. JD2001-1040 DRWN: S. AKIYAMA CHK'g: J. MIYAZAWA APPR: H. IKESUGI	DESCRIPTION 材料 注記参照 SEE NOTES	GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差		SCALE 2-1	DESIGN UNITS ☒ mm ☐ INCH	THIRD ANGLE PROJECTION	☐ mm ☐ INCH ☐ mm ONLY	REVISE ON CAD ONLY
							FINISH 仕上り		10 UNDER 未満	±0.2	DRAWN BY & DATE S. Akiyama 01/25		TITLE: COMPACT ROBOT CONN. (CRC) REC. PIN HS'G ASS'Y		
							30 UNDER 未満		±0.25	CHECKED BY & DATE J. Miyazawa / Y. Ito					
							WIRE RANGE 適用電線範囲		30 OVER 以上	±0.3	APPROVED BY & DATE S. Akiyama		MOLEX INCORPORATED		
							INS. RANGE 被覆外径	ANGLE 角度	±3°	CAD FILE NAME 51233008.S01		MATERIAL NO. SEE CHART			
									THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.						SIZE B

DWG. NO.
SD-51233-008

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DO NOT SCALE DRAWING

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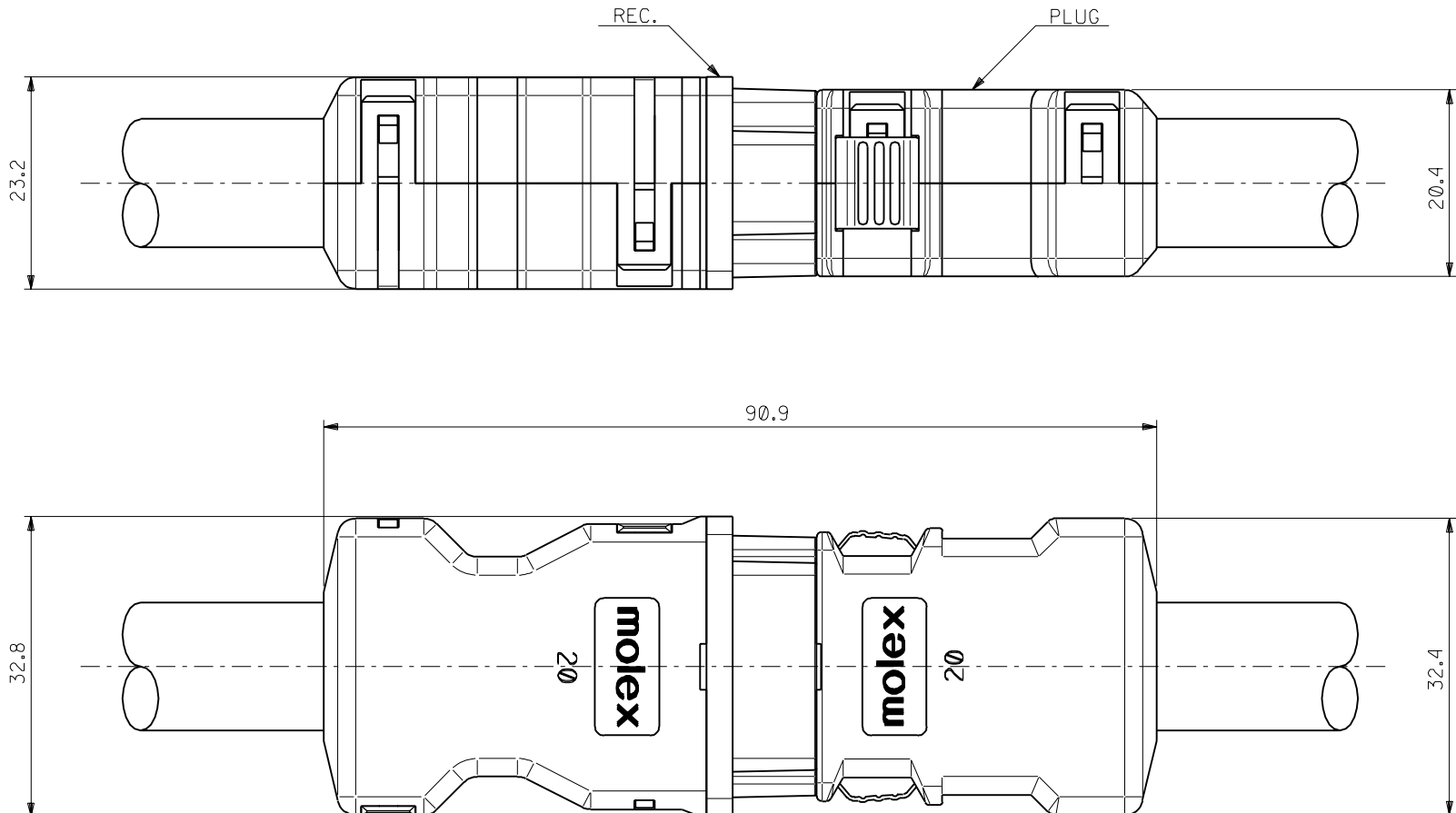
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A



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

EC NO. DRWN: CHK'g APPR:		EC NO. DRWN: CHK'g APPR:		EC NO. DRWN: CHK'g APPR:		REVISED 01/10/04 EC NO. J2002-0786 DRWN: S.AKIYAMA CHK'g: J.MIYAZAWA APPR: YO. ITO	0 EC NO. JD2001-1040 DRWN: S.AKIYAMA CHK'g: J.MIYAZAWA APPR: H.IKESUGI	DESCRIPTION MATERIAL 材料 FINISH 仕上り WIRE RANGE 適用電線範囲 INS. RANGE 被覆外径	注記参照 SEE NOTES — — —	GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差 10 UNDER 未満 10 OVER 30 UNDER 以上 未満 30 OVER 以上 ANGLE 角度	±0.2 ±0.25 ±0.3 ±3°	SCALE 2-1 DRAWN BY & DATE S. Akiyama 01/25 CHECKED BY & DATE J. Miyazawa / Y. Ito APPROVED BY & DATE H. Ikessugi CAD FILE NAME 51233008.S03	DESIGN UNITS mm mm INCH THIRD ANGLE PROJECTION	TITLE: COMPACT ROBOT CONN. (CRC) REC. PIN HS'G ASS'Y MOLEX INCORPORATED	DIMENSIONS: mm mm INCH INCH mm ONLY	SHT REVISE ON CAD ONLY	REV	
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DWG. NO.
SD-51233-008

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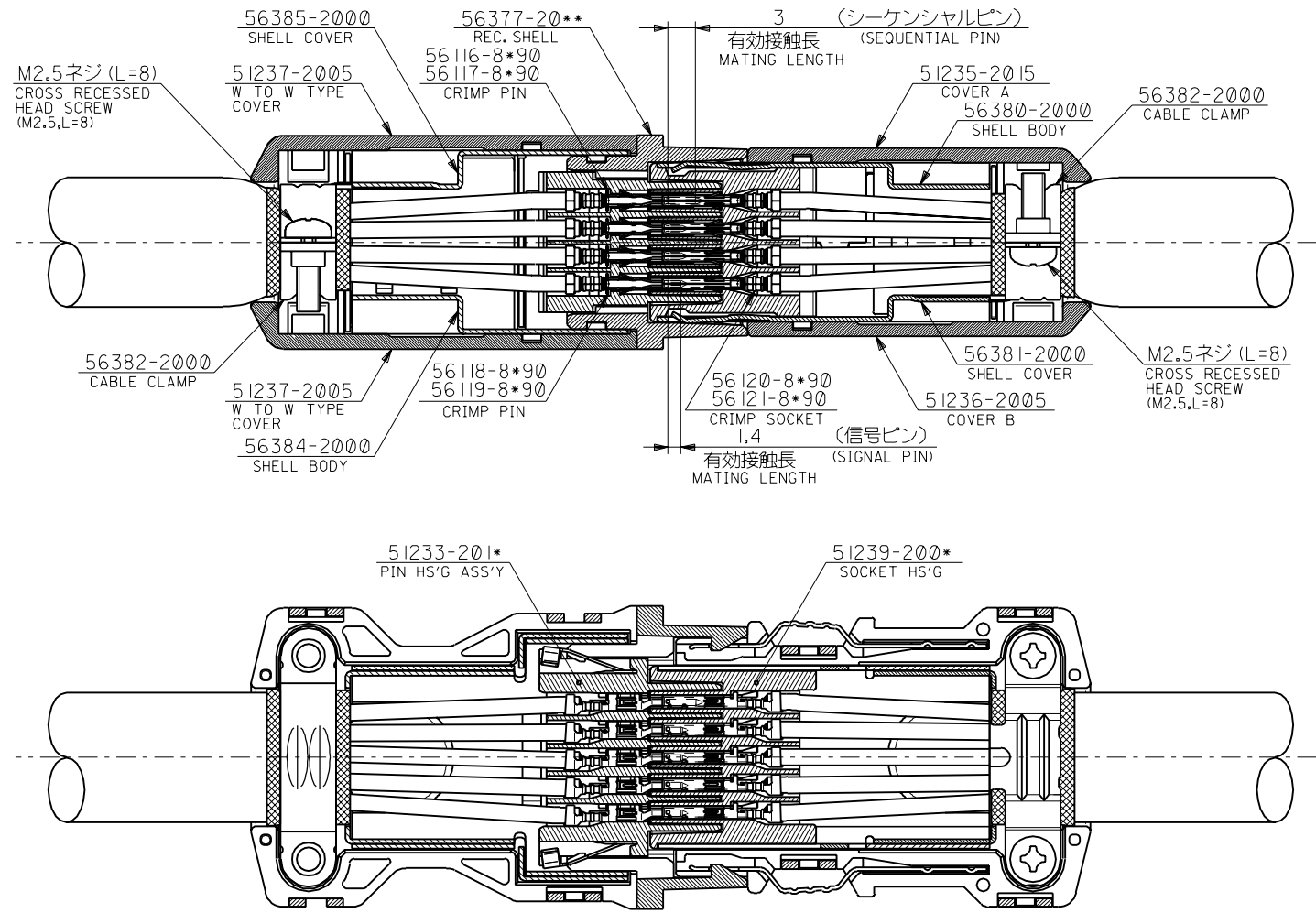
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DO NOT SCALE DRAWING



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

EC NO. DRWN: CHK'g APPR:		EC NO. DRWN: CHK'g APPR:		EC NO. DRWN: CHK'g APPR:		REVISED 01/10/04 EC NO. J2002-0786 DRWN: S. AKIYAMA CHK'g: J. MIYAZAWA APPR: YO. ITO	EC NO. J2001-1040 DRWN: S. AKIYAMA CHK'g: J. MIYAZAWA APPR: H. IKESUGI	DESCRIPTION MATERIAL 材料 FINISH 仕上げ WIRE RANGE 適用電線範囲 INS. RANGE 被覆外径	注記参照 SEE NOTES —#— —#— —#—	GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差 10 UNDER 未満 10 OVER 以上 30 UNDER 未満 30 OVER 以上 ANGLE 角度	±0.2 ±0.25 ±0.3 ±3°	SCALE 2-1 DRAWN BY & DATE S. Akiyama 1/01/25 CHECKED BY & DATE J. Miyazawa / Y. Ito APPROVED BY & DATE H. Ikesugi CAD FILE NAME 51233008.S04	DESIGN UNITS mm INCH THIRD ANGLE PROJECTION TITLE: COMPACT ROBOT CONN. (CRC) REC. PIN HS'G ASS'Y MOLEX INCORPORATED	DIMENSIONS: mm INCH SHT REV REVISE ON CAD ONLY	MATERIAL NO. SEE CHART DRAWING NO. SD-51233-008 SHEET NO. 4 OF 4
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51233008.S04