molex
one company > a world of innovation

This document was generated on 04/12/2010

PLEASE CHECK 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-51238-010 (PDF)
Product Specification PS-51238-018 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	I/O Connectors
Series	51238
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

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
51238Series

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

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

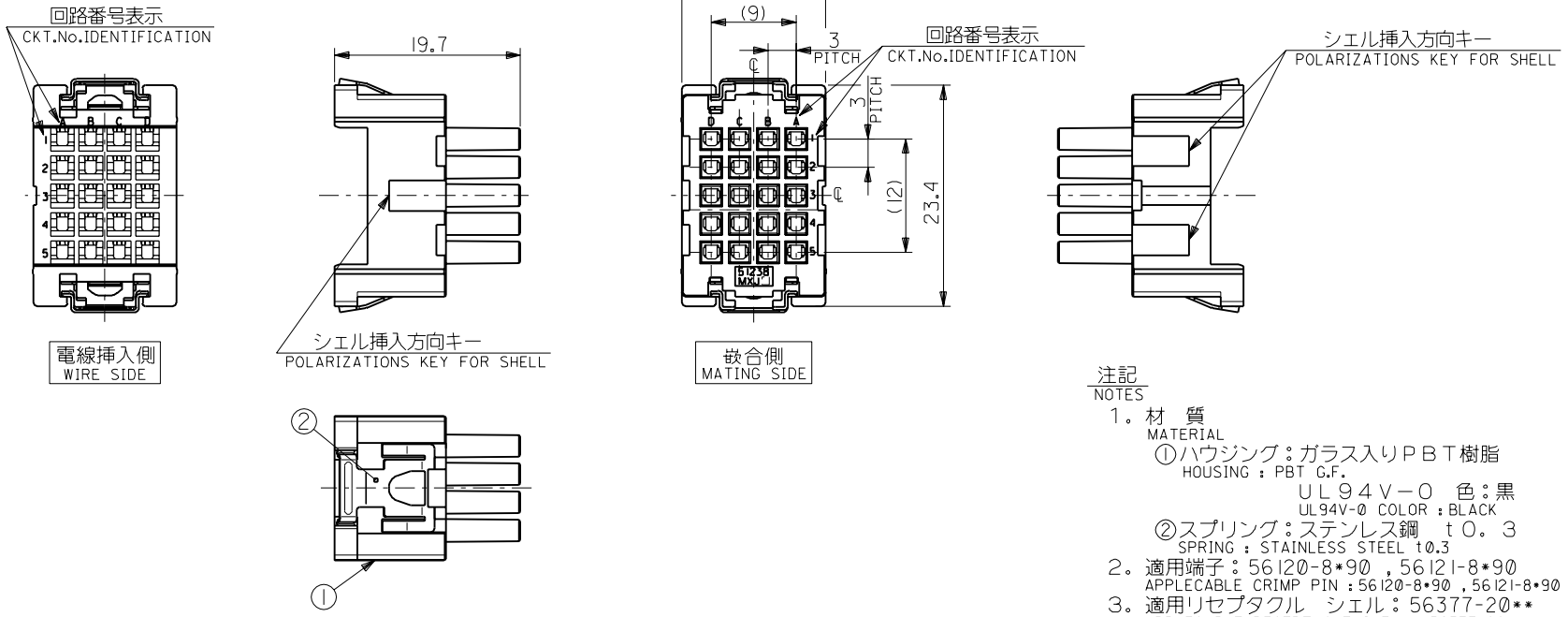
Material Info

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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：黒
   UL94V-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
   APPLECABLE CRIMP PIN : 56120-8*90 , 56121-8*90
3. 適用リセプタクル　シェル：56377-20**
   APPLECABLE 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

POLARITY POSITION (CIRCUIT No.)	POLARITY TYPE	MATERIAL No.	MODEL No.	CIRCUIT
C-4	D	51238-2015	51238-**1*	20
C-3	C	51238-2014		
B-3	B	51238-2013		
B-2	A	51238-2012		
—	STANDARD	51238-2011		

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
A	REVISED '01/10/04	J2002-0786	S.AKIYAMA	J.MIYAZAWA	YO.ITO
0	RELEASED '01/02/16	JD2001-1040	S.AKIYAMA	J.MIYAZAWA	H.IKESUGI

DO NOT SCALE DRAWING

MATERIAL 材料: 注記参照 SEE NOTES
FINISH 仕上げ: —
WIRE RANGE 適用電線範囲: —
INS. RANGE 被覆外径: —

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE 2-1 | DESIGN UNITS ☒mm ☐INCH | THIRD ANGLE PROJECTION | DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE: S.Akiyama '01/01/25
CHECKED BY & DATE: J.Miyazawa / Y.Ito
APPROVED BY & DATE: H.Ikesugi
CAD FILENAME: 51238008.S01

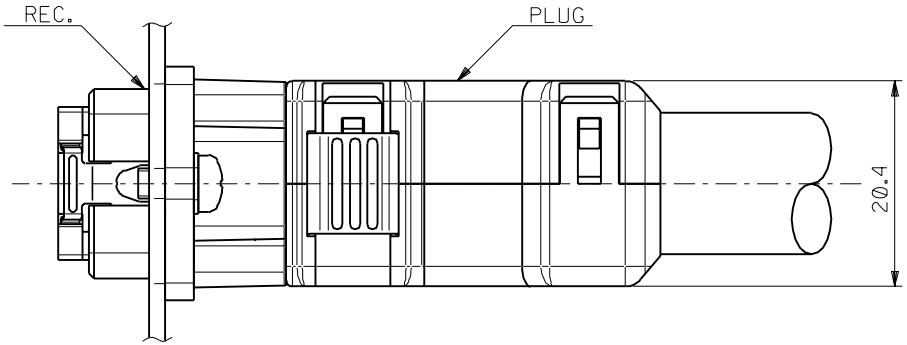
TITLE: COMPACT ROBOT CONN.(CRC) REC.SOCKET HS'G ASS'Y

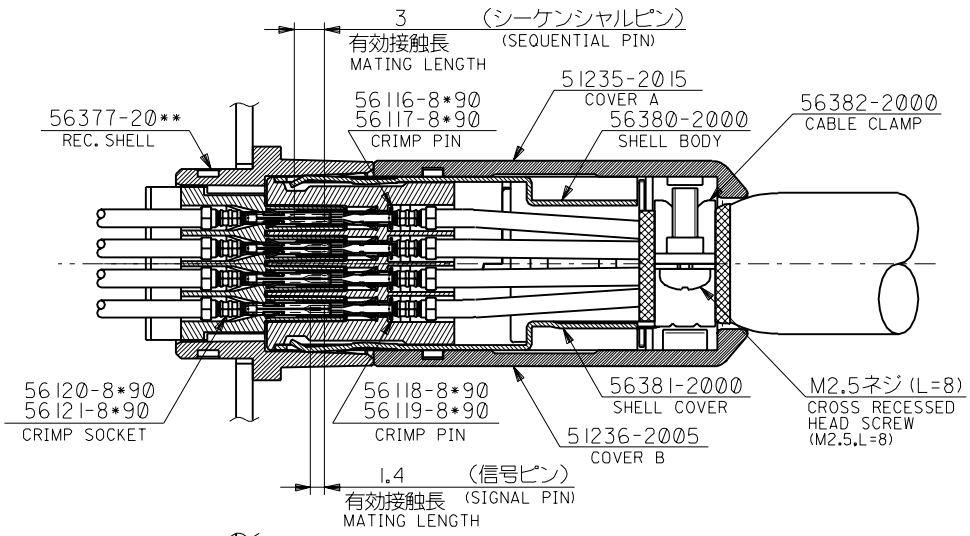
molex MOLEX INCORPORATED

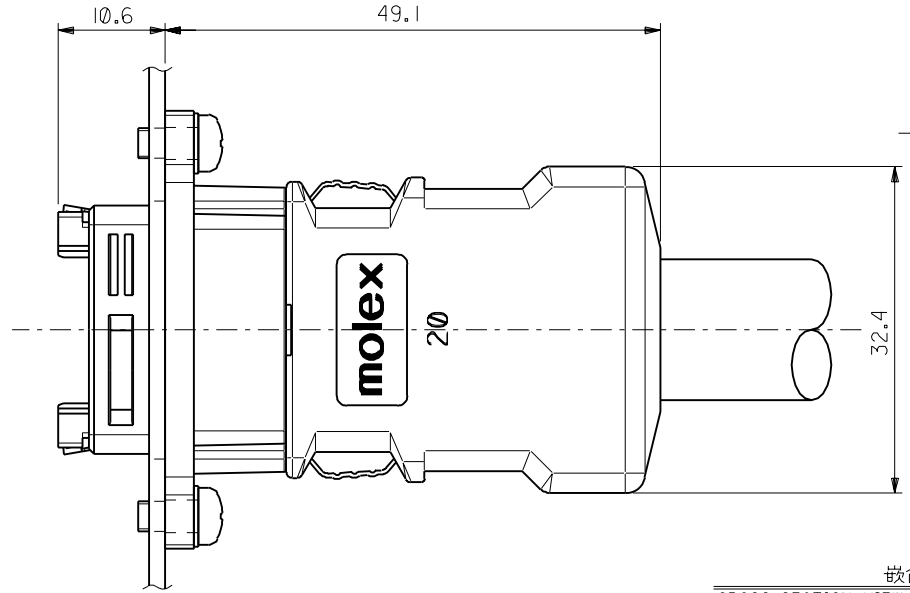
MATERIAL NO.: SEE CHART
DRAWING NO.: SD-51238-008
SHEET NO.: 1 OF 4
SIZE: B

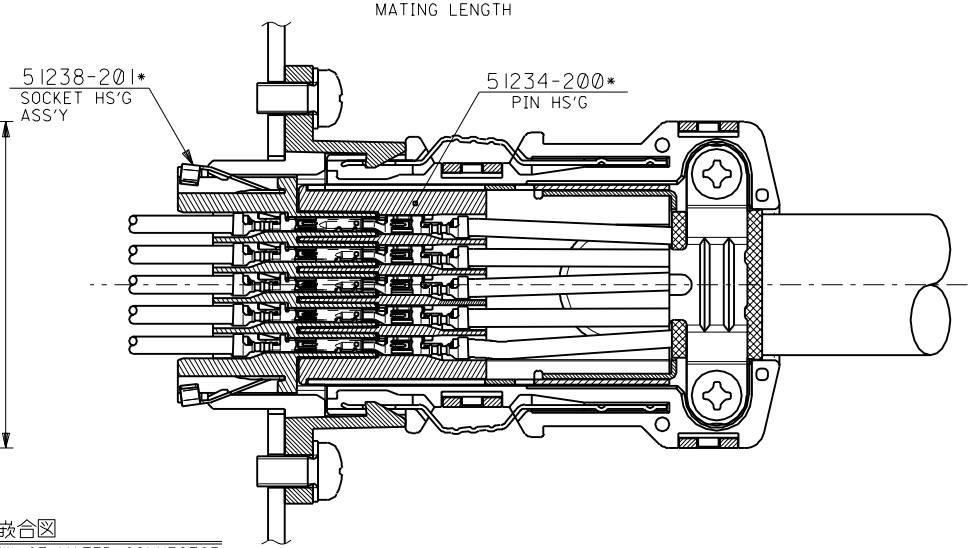
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

DWG. NO. SD-51238-008









嵌合図
CROSS-SECTION VIEW OF MATED CONNECTOR

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
A	REVISED '01/10/04	J2002-0786	S.AKIYAMA	J.MIYAZAWA	YO.ITO
0	RELEASED '01/02/16	JD2001-1040	S.AKIYAMA	J.MIYAZAWA	H.IKESUGI

DO NOT SCALE DRAWING

MATERIAL 材料: 注記参照 SEE NOTES
FINISH 仕上げ:
WIRE RANGE 適用電線範囲:
INS. RANGE 被覆外径:

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

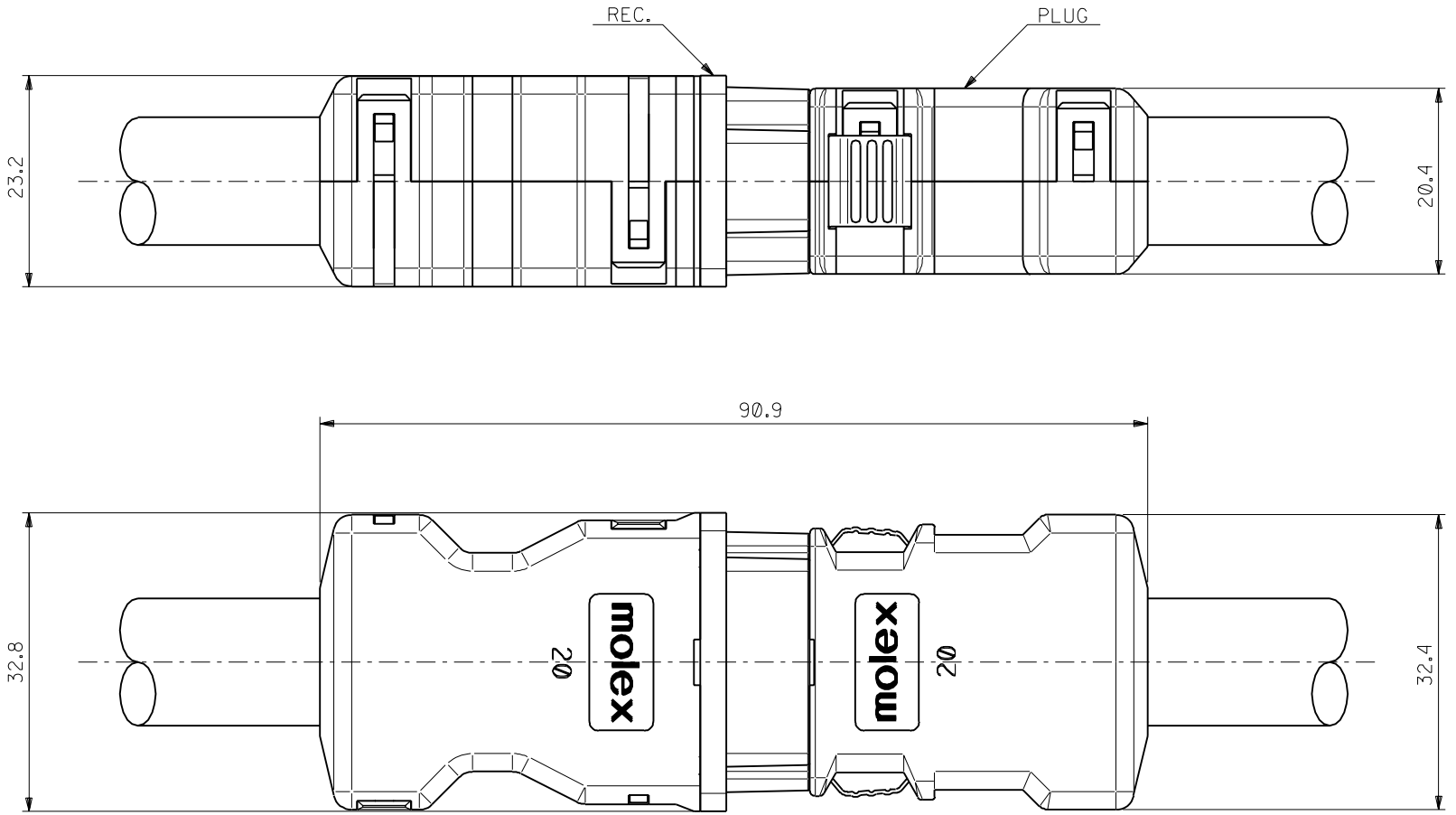
10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE 2-1
DESIGN UNITS ☒mm ☐INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV
REVISE ON CAD ONLY
DRAWN BY & DATE S.Akiyama '01/01/25
CHECKED BY & DATE J.Miyazawa / Y.Ito
APPROVED BY & DATE H.Ikesugi
CAD FILENAME 51238008.S01
TITLE: COMPACT ROBOT CONN. (CRC) REC. SOCKET HS'G ASS'Y
molex MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DRAWING NO. SD-51238-008
SHEET NO. 2 OF 4
SIZE B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

51238008.S02

EN-02J(097) MXJ-54



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

DWG. NO. SD-51238-008

DO NOT SCALE DRAWING

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
A	REVISED '01/10/04	J2002-0786	S.AKIYAMA	J.MIYAZAWA	YO.ITO
0	RELEASED '01/02/16	JD2001-1040	S.AKIYAMA	J.MIYAZAWA	H.IKESUGI

MATERIAL 材料: 注記参照 SEE NOTES
FINISH 仕上げ:
WIRE RANGE 適用電線範囲:
INS. RANGE 被覆外径:

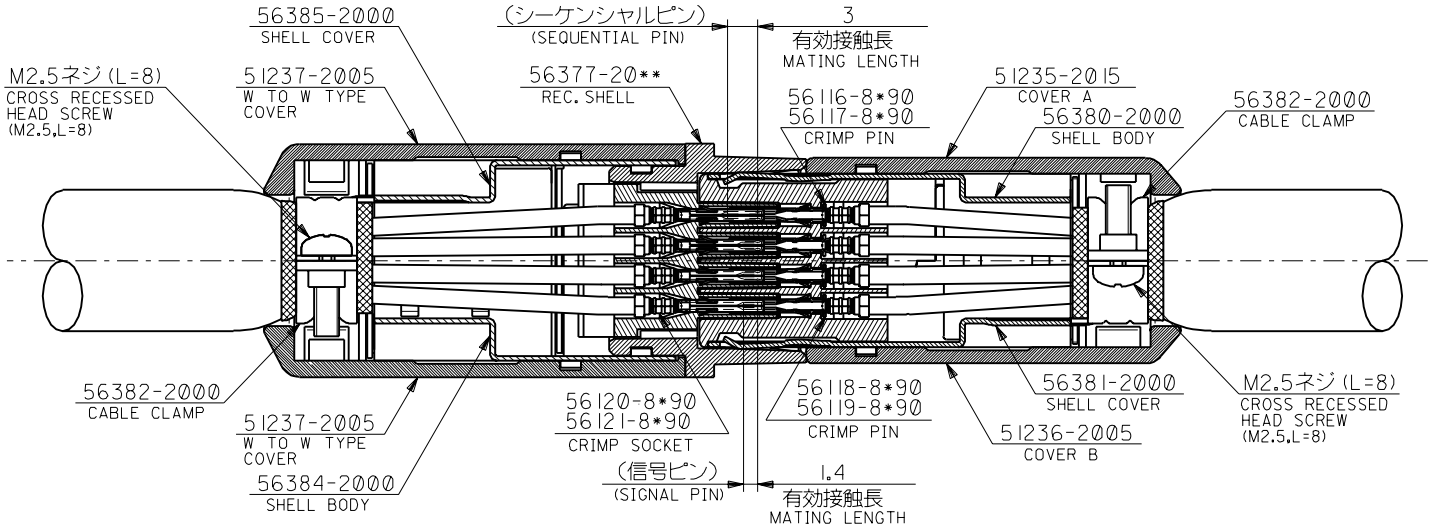
GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

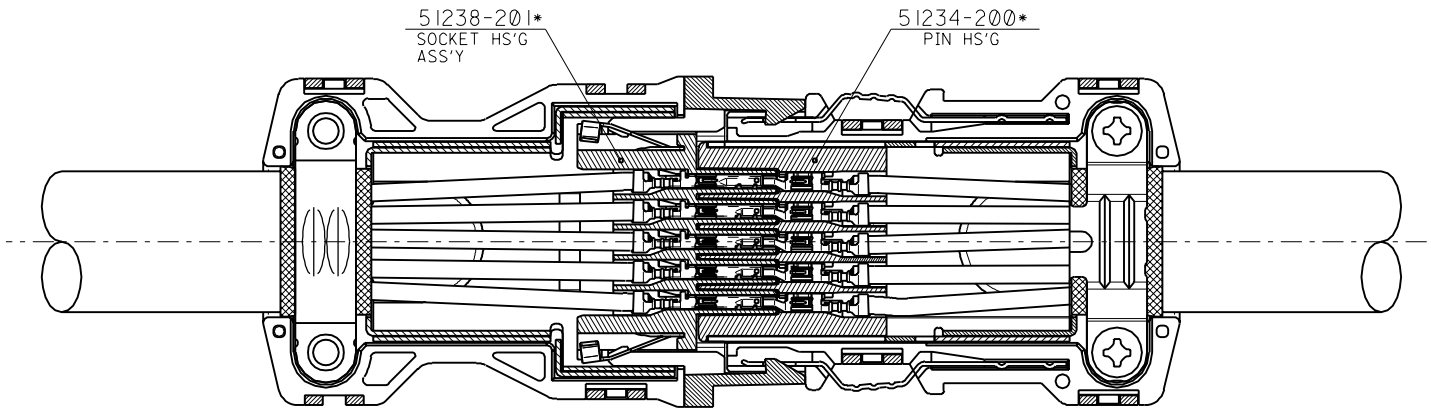
10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE 2-1
DESIGN UNITS ☒mm ☐INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY
SHT REV
REVISE ON CAD ONLY
DRAWN BY & DATE S.Akiyama '01/01/25
CHECKED BY & DATE J.Miyazawa / Y.Ito
APPROVED BY & DATE H.Ikesugi
CAD FILENAME 51238008.S03
TITLE: COMPACT ROBOT CONN. (CRC) REC. SOCKET HS'G ASS'Y
MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DRAWING NO. SD-51238-008
SHEET NO. 3 OF 4
SIZE B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

51238008.S03





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

DWG. NO. SD-51233-008

DO NOT SCALE DRAWING

	EC NO.	DRWN:	CH'K:	APPR:
C				
B				
A	J2002-0786 '01/10/04	S.AKIYAMA	J.MIYAZAWA	YO.ITO
0	JD2001-1040 '01/02/16	S.AKIYAMA	J.MIYAZAWA	H.IKESUGI

DESCRIPTION

REV

MATERIAL 材料: 注記参照 SEE NOTES

FINISH 仕上げ: #

WIRE RANGE 適用電線範囲: #

INS. RANGE 被覆外径: #

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE 2-1

DESIGN UNITS ☒mm ☐INCH

THIRD ANGLE PROJECTION

DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY

SHT | REV

REVISE ON CAD ONLY

DRAWN BY & DATE: S.Akiyama '01/01/25

CHECKED BY & DATE: J.Miyazawa / Y.Ito

APPROVED BY & DATE: H.Ikesugi

TITLE:
COMPACT ROBOT CONN. (CRC)
REC. SOCKET HS'G ASS'Y

molex MOLEX INCORPORATED

CAD FILENAME: 51238008.S04

MATERIAL NO.: SEE CHART

DRAWING NO.: SD-51238-008

SHEET NO.: 4 OF 4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

SIZE B

51238008.S04

EN-02J(097) MXJ-54