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Part Number: [0512331213](#)
Status: **Active**
Description: CRC™ Shielded Rectangular I/O Receptacle Housing for Male Terminal, Signal, 12 Circuits, Polarization Type B, Polarization Position B-3

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) 12
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 4
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 4A
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

51239-120X plug housing|54332-120X plug
assembly set

Use With

56377-120* receptacle shell|56116, 56117,
56118 and 56119 male terminal

Material Info

Reference - Drawing Numbers

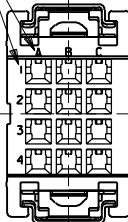
Product Specification
Sales Drawing

PS-51238-010, PS-51238-018, RPS-51238-001
SD-51233-007

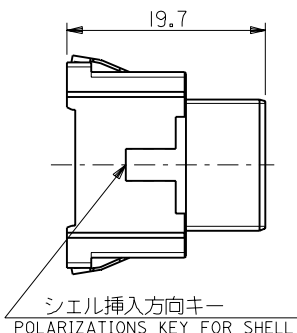
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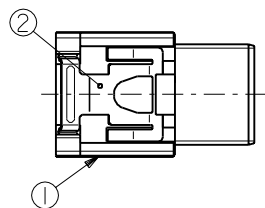
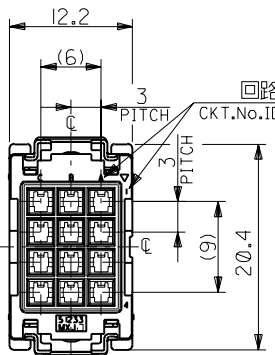
回路番号表示
CKT.No. IDENTIFICATION



電線挿入側
WIRE SIDE



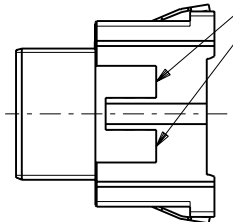
シエル挿入方向キー
POLARIZATIONS KEY FOR SHELL



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.
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：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 シエル：56377-12**
APPLICABLE RECEPTACLE SHELL : 56377-12**
4. 嵌合相手：51239-120*
MEET WITH : 51239-120*

<誤嵌合防止キー（極性）タイプ> <POLARITY KEY TYPE>

51233-1211	51233-1212	51233-1213	51233-1214	51233-1215
STANDARD TYPE	A TYPE	B TYPE	C TYPE	D TYPE

A-2	D	51233-1215	51233-**1*	12
C-3	C	51233-1214		
B-3	B	51233-1213		
B-2	A	51233-1212		
—#—	STANDARD	51233-1211		
POLARITY POSITION (CIRCUIT No.)	POLARITY TYPE	MATERIAL No.	MODEL No.	CIRCUIT

EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	REVISED '01/10/04 EC NO. J2002-0786 DRWN: S.AKIYAMA CHK: J.MIYAZAWA APPR: YO.ITO	RELEASED '01/02/16 EC NO. JD2001-1040 DRWN: S.AKIYAMA CHK: J.MIYAZAWA APPR: HIKESUGI	DESCRIPTION MATERIAL 材料 注記参照 SEE NOTES	FINISH 仕上り —#—	WIRE RANGE 適用電線範囲 —#—	INS. RANGE 被覆外径 —#—	REV	GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差		SCALE 2-1	DESIGN UNITS ☒ mm ☐ INCH	 THIRD ANGLE PROJECTION	☐ mm INCH ☐ mm INCH ☒ mm ONLY	REVISE ON CAD ONLY	
										10 UNDER 未満	±0.2	DRAWN BY & DATE S. Akiyama '01/25		TITLE: COMPACT ROBOT CONN. (CRC) REC. PIN HS'G ASS'Y			
										10 OVER 以上 30 UNDER 未満	±0.25	CHECKED BY & DATE J. Miyazawa / Y. Ito					
										30 OVER 以上	±0.3	APPROVED BY & DATE H. Ikesugi		MOLEX INCORPORATED			
										ANGLE 角度		±3°	CAD FILE NAME 51233007.S01	MATERIAL NO. SEE CHART	DRAWING NO. SD-51233-007	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-51233-007

F

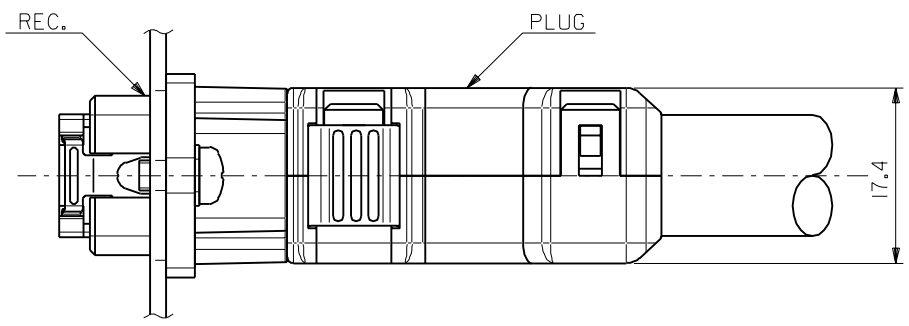
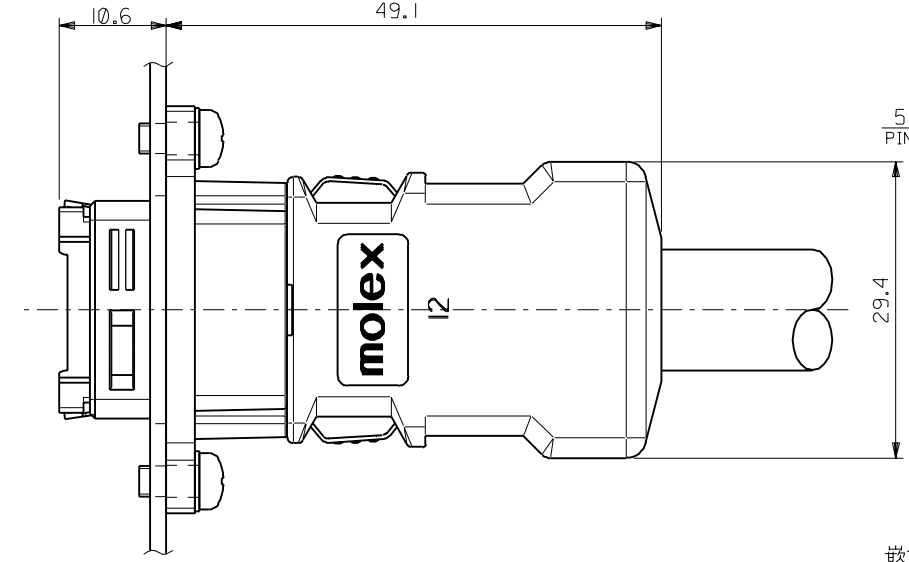
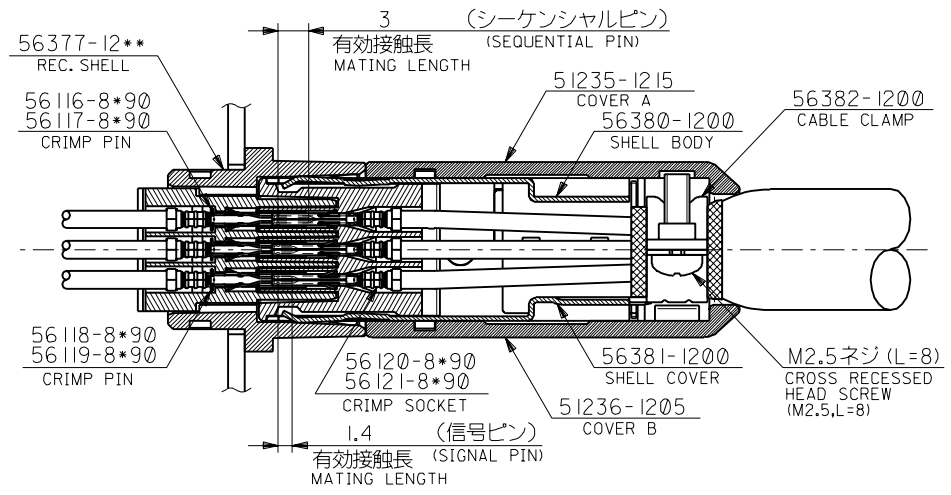
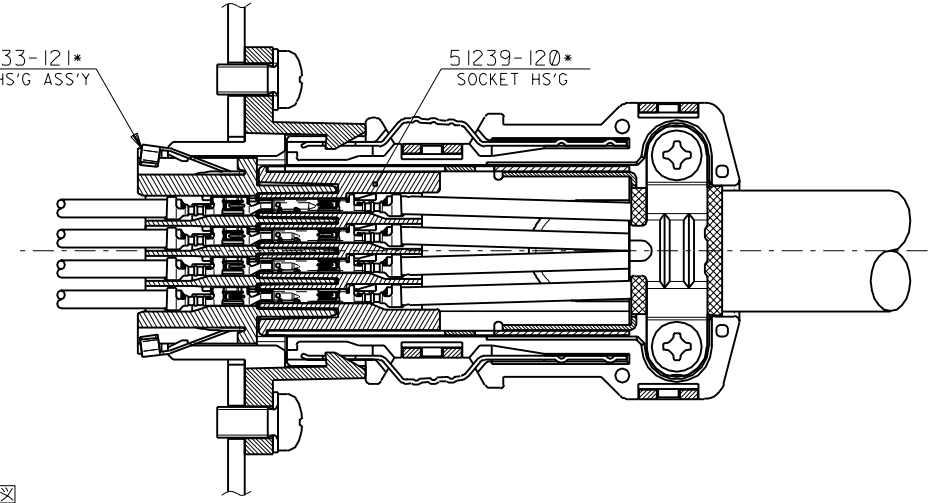
D

V

C

B

DO NOT SCALE DRAWING



嵌合図
CROSS-SECTION VIEW OF MATED CONNECTOR

EC NO. DRWN: CHK': APPR:		EC NO. DRWN: CHK': APPR:		EC NO. DRWN: CHK': APPR:		REVISED '01/10/04 EC NO. J2002-0786 DRWN: S.AKIYAMA CHK': J.MIYAZAWA APPR: YO. ITO	RELEASED '01/02/16 EC NO. JD2001- 1040 DRWN: S.AKIYAMA CHK': J.MIYAZAWA APPR: H.IKESUGI	DESCRIPTION	MATERIAL 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 INCH ☒ mm ONLY	REVISE ON CAD ONLY			
A		0		#		#		#		#		10 UNDER 未満		±0.2	DRAWN BY & DATE S. Akiyama 01/25		TITLE: COMPACT ROBOT CONN. (CRC) REC. PIN HS'G ASS'Y				
												10 OVER 30 UNDER 以上 未満		±0.25	CHECKED BY & DATE J. Miyazawa / Y. Ito						
												30 OVER 以上		±0.3	APPROVED BY & DATE H. Ikesugi		MOLEX INCORPORATED				
												ANGLE 角度		±3°	CAD FILE NAME 51233007.S02		MATERIAL NO. SEE CHART	DRAWING NO. SD-51233-007	SHEET NO. 2 OF 4		
REV												INS. RANGE 被覆 外径		#		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.				SIZE B	

DWG. NO.
SD-51233-007

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DO NOT SCALE DRAWING

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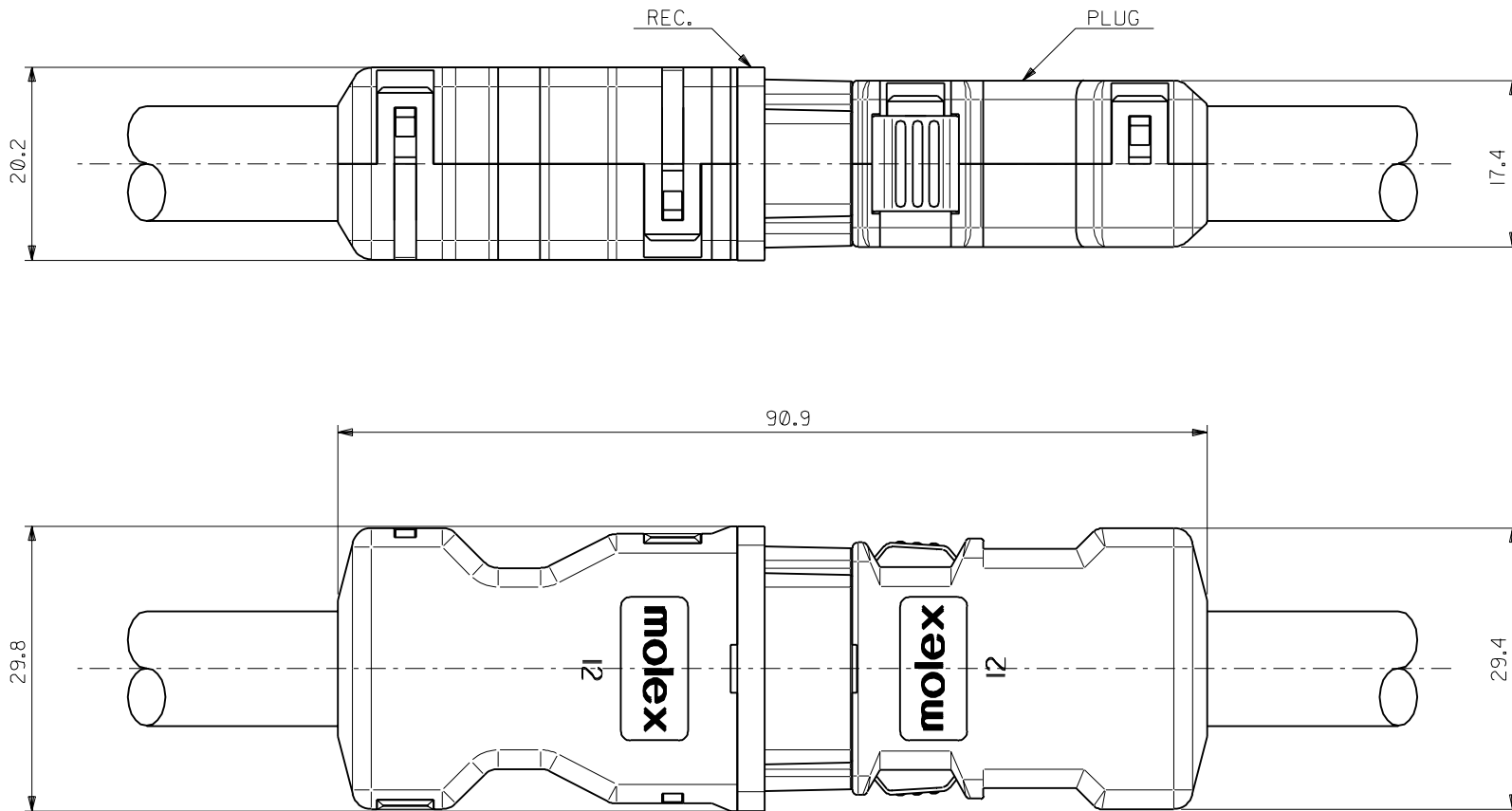
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嵌合図 (中継タイプ)
CROSS-SECTION VIEW OF MATED CONNECTOR
(WIRE TO WIRE TYPE)

EC NO. DRWN: CHK: APPR:			EC NO. DRWN: CHK: APPR:			EC NO. DRWN: CHK: APPR:			REVISED 01/10/04 EC NO. J2002-0786 DRWN: S.AKIYAMA CHK: J.MIYAZAWA APPR: Y.O.ITO			RELEASED 01/02/16 EC NO. JD2001-1040 DRWN: S.AKIYAMA CHK: J.MIYAZAWA APPR: H.IKESUGI			DESCRIPTION REV	MATERIAL 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 INCH ☒ mm ONLY	REVISE ON CAD ONLY	
													FINISH 仕上り			10 UNDER 未満	±0.2	DRAWN BY & DATE S. Akiyama 01/01/25		TITLE: COMPACT ROBOT CONN. (CRC) REC. PIN HS'G ASS'Y						
													10 OVER 以上 30 UNDER 未満			±0.25	CHECKED BY & DATE J. Miyazawa / Y. Ito									
													30 OVER 以上			±0.3	APPROVED BY & DATE H. Ikessugi		MOLEX INCORPORATED							
																WIRE RANGE 適用電線範囲			ANGLE 角度		±3°	CAD FILE NAME 51233007.S03		MATERIAL NO. SEE CHART	DRAWING NO. SD-51233-007	SHEET NO. 3 OF 4
									A			Ø				INS. RANGE 被覆外径					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.					SIZE B

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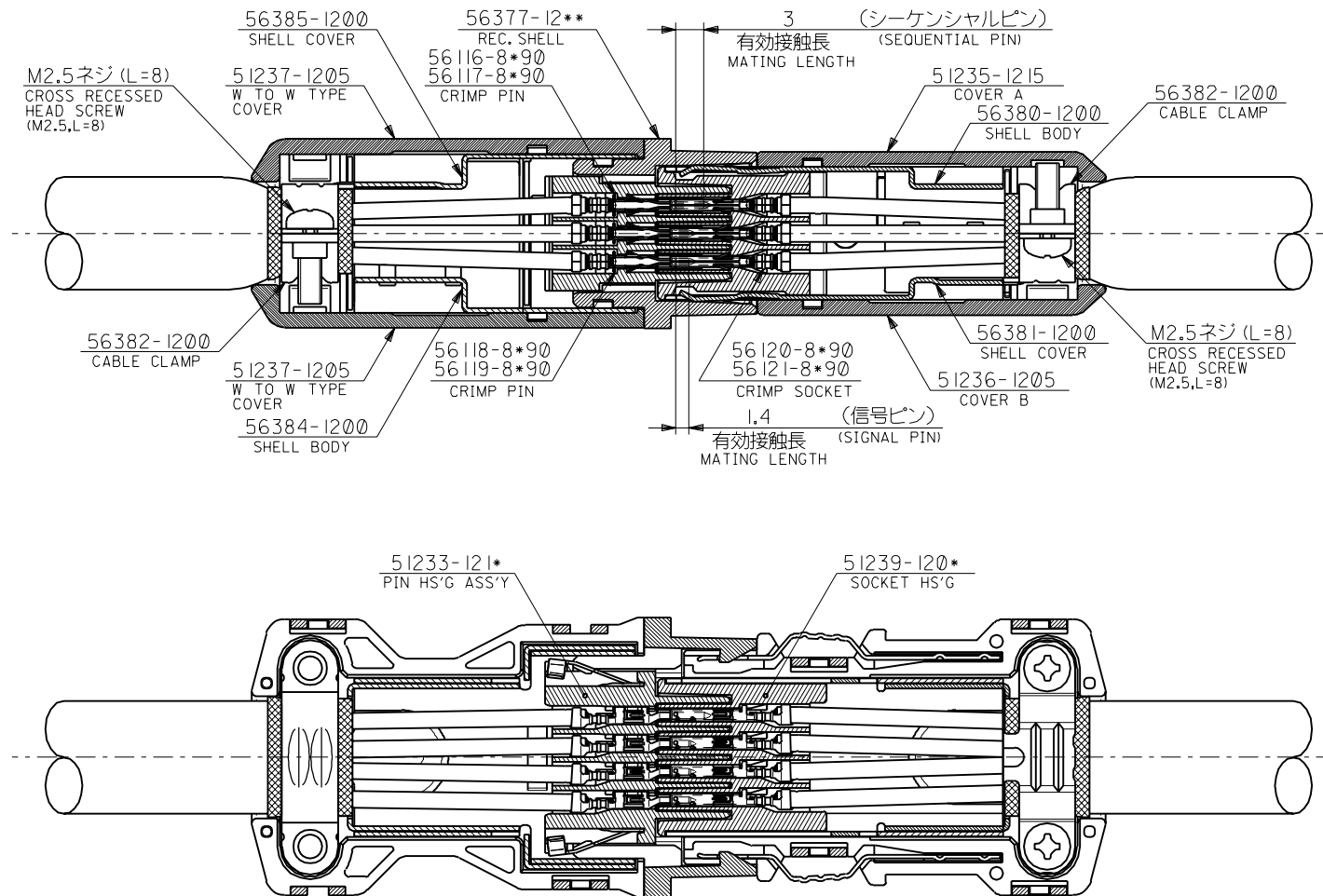
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2

EN-02J(097) MXJ-54

51233007.S03



嵌合図（中継タイプ）

CROSS-SECTION VIEW OF MATED CONNECTOR
(WIRE TO WIRE TYPE)

EC NO. DRWN: CHK'z APPR:	EC NO. DRWN: CHK'z APPR:	EC NO. DRWN: CHK'z APPR:	REVISED '01/10/04 EC NO. J2002-0786 DRWN: S.AKIYAMA CHK'z: J.MIYAZAWA APPR: YO.ITO	RELEASED '01/02/16 EC NO. JD2001-1040 DRWN: S.AKIYAMA CHK'z: J.MIYAZAWA APPR: H.IKESUGI	DESCRIPTION	MATERIAL 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 ☐ INCH ☒ mm ONLY	REVISE ON CAD ONLY
						FINISH 仕上付	10 UNDER 未満	±0.2	DRAWN BY & DATE S. Akiyama '01/01/25	TITLE: COMPACT ROBOT CONN.(CRC) REC. PIN HS'G ASS'Y		
							10 OVER 以上 30 UNDER 未満	±0.25	CHECKED BY & DATE J. Morawara / Y. Ito			
							30 OVER 以上	±0.3	APPROVED BY & DATE H. Ikesugi	MOLEX INCORPORATED		
						WIRE RANGE 適用電線範囲		ANGLE 角度	CAD FILE NAME 51233007.S04	MATERIAL NO. SEE CHART	DRAWING NO. SD-51233-007	SHEET NO. 4 OF 4
			A	0	REV	INS. RANGE 被覆外径			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.			SIZE B