

MHF® 4L Plug

MHF® 4L Plug Cable Assembly

Mating profile : 1.40mm MAX. for AWG32 (O.D. 1.13mm) Cable
 1.40mm MAX. for AWG33 (O.D. 0.95mm) Cable

【Part Number】

O.D. 1.13mm / 0.95mm type

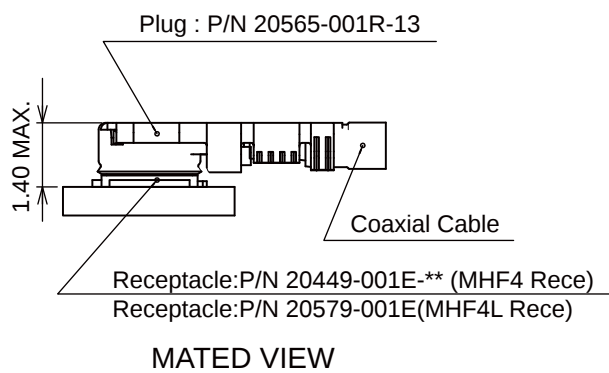
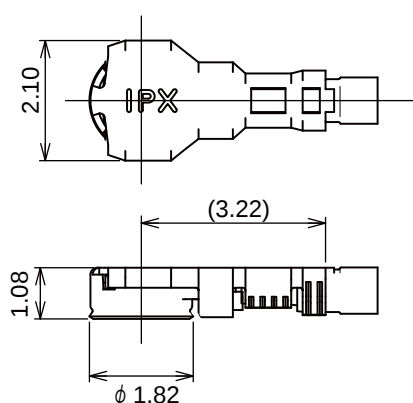
20565 - 001 R - 13

Packing : Reel
 1 reel : 2,000pcs

【Applicable Cable gauge】



Part No.	20565-001R-13
	for AWG#32 [AWG#33]
Applicable Cable Nominal Dimension 	
Coaxial Cable	Single Braided Shield



【Material and Finish】

Parts	Material	Plating / Color
HOUSING	PBT UL94V-0	BLACK
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Partial Au

MHF[®] 4L Receptacle

【Part Number】

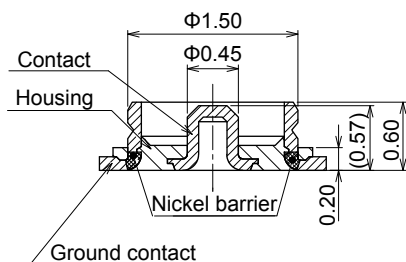
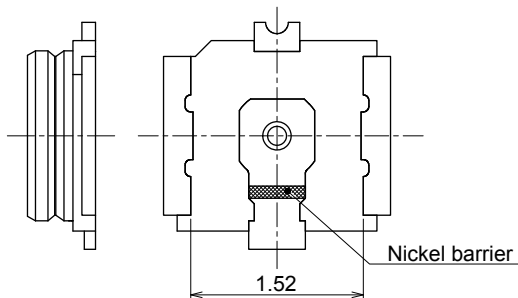
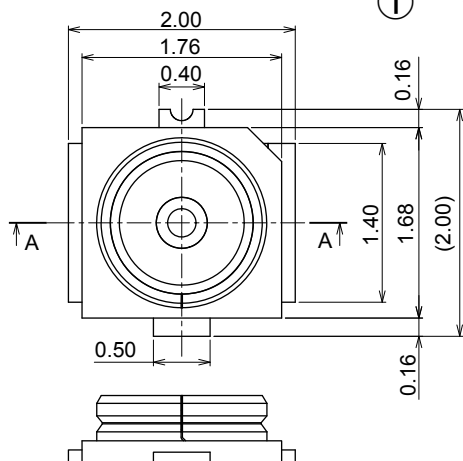
Ground Contact : Au Plating

20579-001 E - **

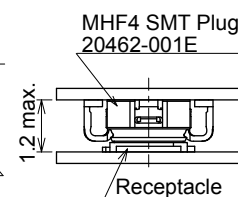
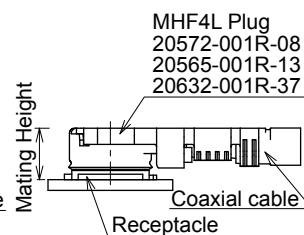
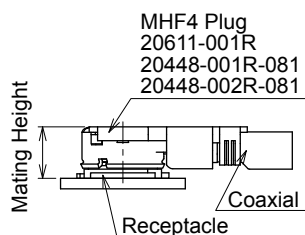
①

②

①	Packaging	E	Emboss Tape
②	Packaging Quantity	-	10,000 pcs/reel
		01	20,000 pcs/reel



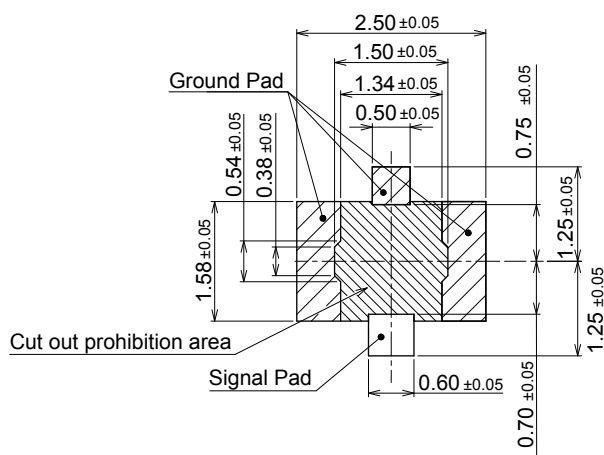
Sect. A-A



Mating

Mating partner part No.

Receptacle	Plug	Mating Height
20579-001E-01	20572-001R-08 20611-001R 20448-001R-081 20448-002R-081	1.2 max.
	20565-001R-13	1.4 max.
	20632-001R-37	1.7 max.
Receptacle	SMT Plug	Mating Height
20579-001E	20462-001E	1.2 max.



Recommended footprint pattern

【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	BLACK
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au

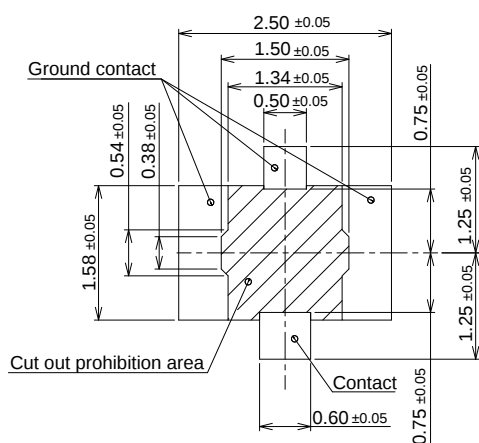
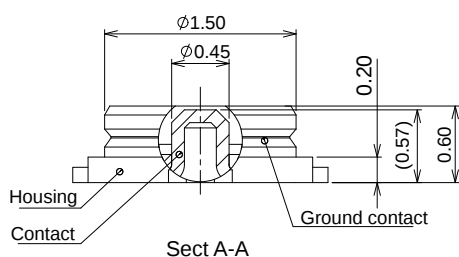
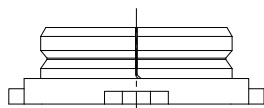
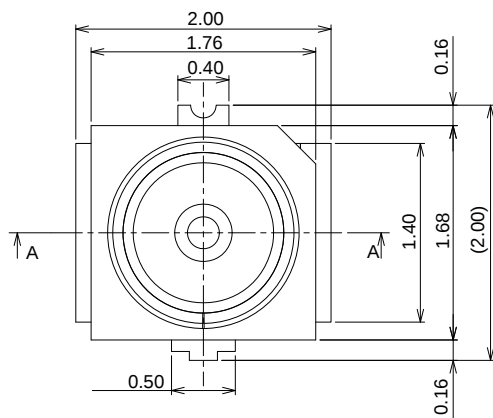
MHF[®] 4 Receptacle

【Part Number】

20449-001 E - **

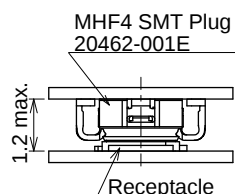
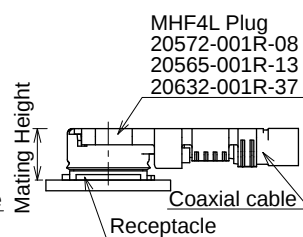
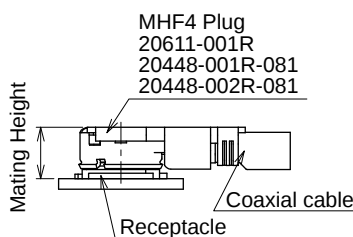
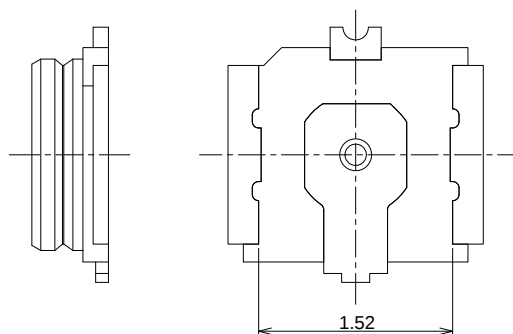
①

②



Recommended foot print pattern

①	Packaging	E	Emboss Tape
②	Packaging Quantity	- 03	10,000 pcs/reel
		- 07	2,500 pcs/reel



Mating

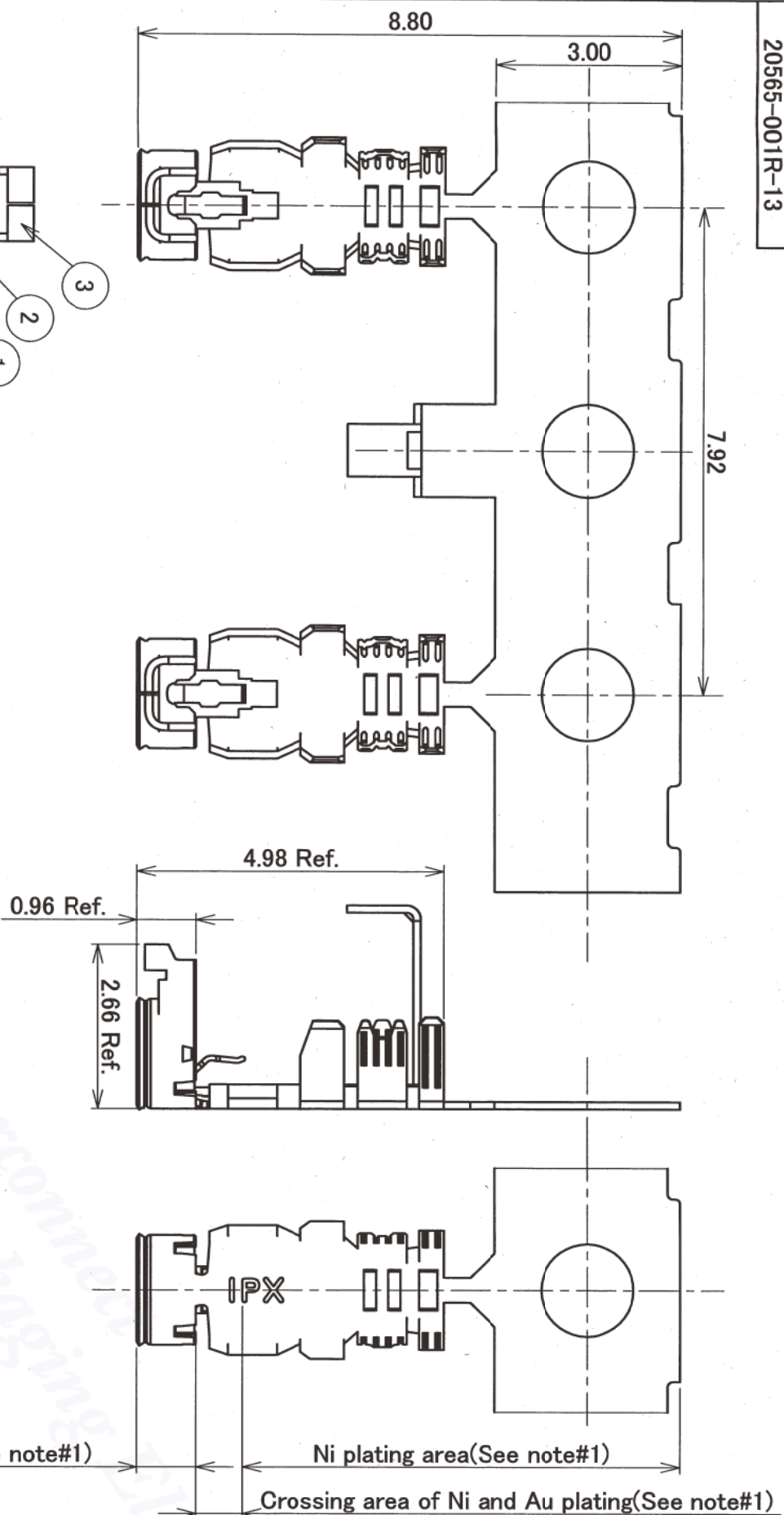
Mating partner part No.

Receptacle	Plug	Mating Height
20449-001E-**	20611-001R 20448-001R-081 20448-002R-081 20572-001R-08	1.2 max.
	20565-001R-13	1.4 max.
	20632-001R-37	1.7 max.

Receptacle	SMT Plug	Mating Height
20449-001E-**	20462-001E	1.2 max.

【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	BLACK
CONTACT	COPPER ALLOY	Au over Pd-Ni over Ni
GROUND CONTACT	COPPER ALLOY	Au over Pd-Ni over Ni

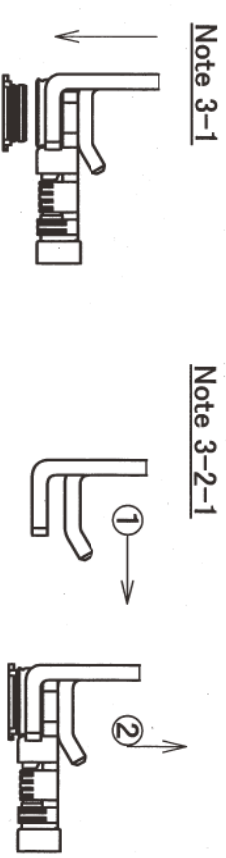


- Notes.
- Material and finish(Plating)
 - Housing PBT(Black) UL94V-0
 - Contact Phosphor bronze : Au over Ni
 - Ground Contact Phosphor bronze
 - Packing
 - Ni plating area : Ni only
 - Mating and unmating instruction
 - Mating

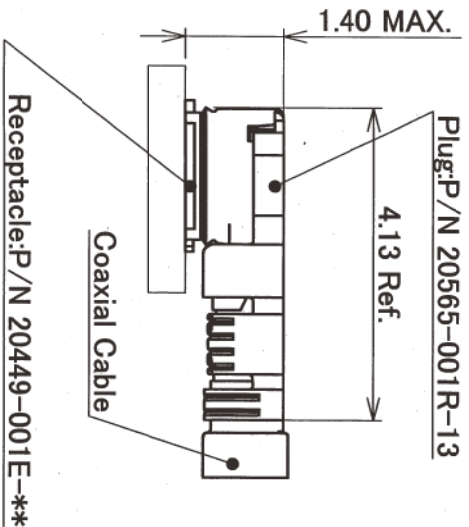
Mate the connector vertically as much as possible, adjusting the mating axis of plug and receptacle. Do not slant mate.
 - Unmating
 - In case of unmating by pulling tool(P/N90609-0001)

Use the pulling tool as the following drawing, and pull plug to vertical direction as directly as possible.
 - In case of unmating directly by hand.

Catch the catching area of plug, and pull plug to vertical direction as directly as possible.

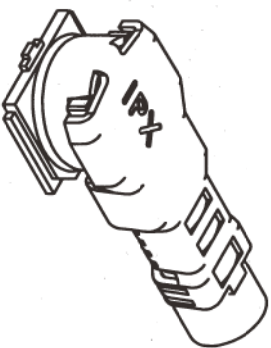
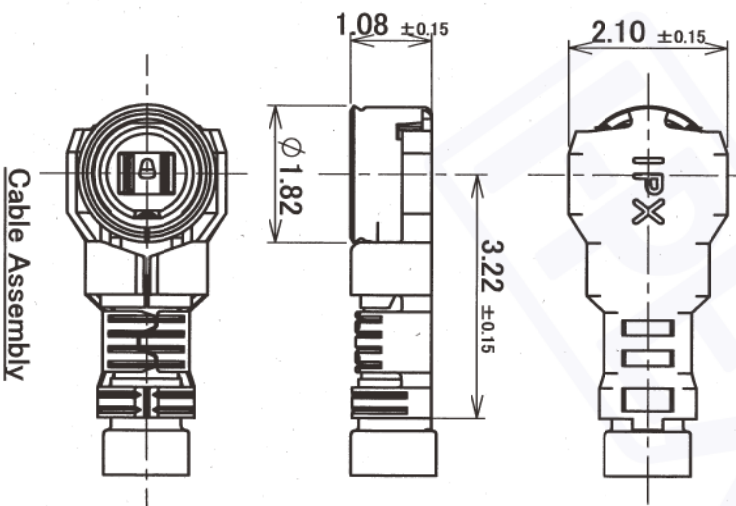


Note 3-2-2



Mating Condition

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°



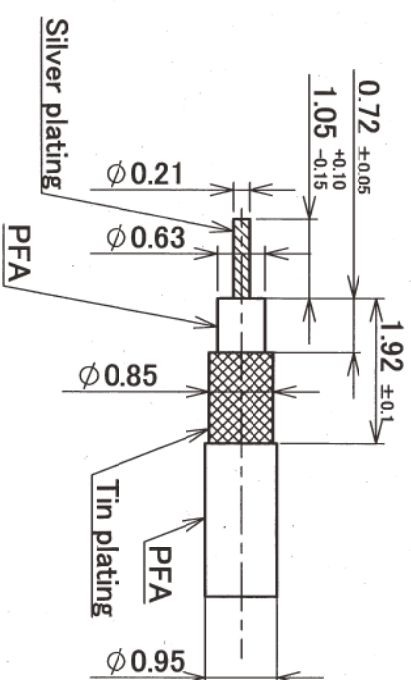
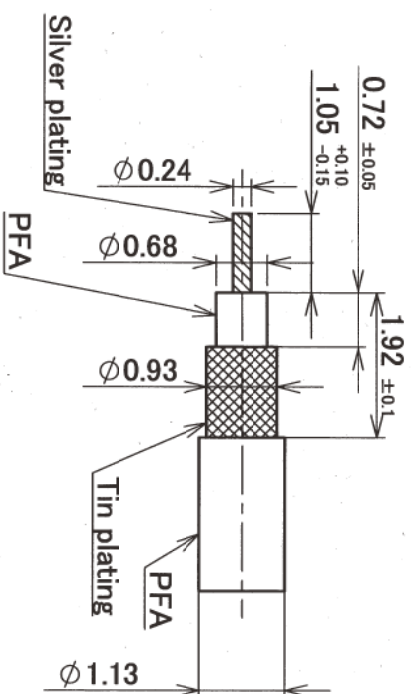
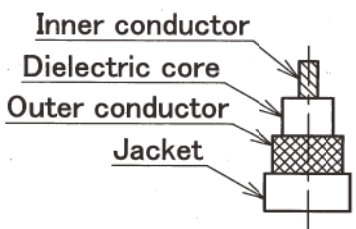
I-PEX DAI-ICHI SEIKO CO.,LTD.
I-Pex Business Company

MHF4L PLUG CONNECTOR

TITLE	SCALE	UNIT	DWG. No.	SHEET	REV.
CUSTOMER COPY	10:1	mm	20565	1/4	2
SERIES No.	R8				

Part No.

20565-001R-13

Applicable cable
strip dimension

Requirements

Characteristic impedance : 50ohm by TDR method

Nominal capacitance(Reference value) : 97pF/m

Conductor resistance of inner conductor at 293K (Reference value) : OD1.13 type...520ohm/km

Insulation resistance : OD1.13 type...1500Mega-ohm.km MIN.

OD0.95 type...1000Mega-ohm.km MIN.

Dielectric with stance voltage : OD1.13 type...No breakdown at AC1000V for 1 minutes.

OD0.95 type...No breakdown at AC500V for 1 minutes.

Braided shield of
Outer conductor

Single braided shield

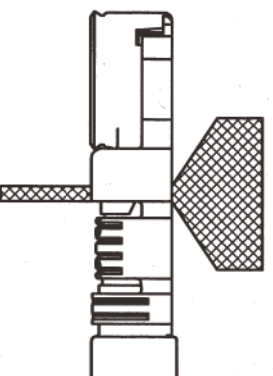
Single braided shield

P/N of semi auto
termination machine

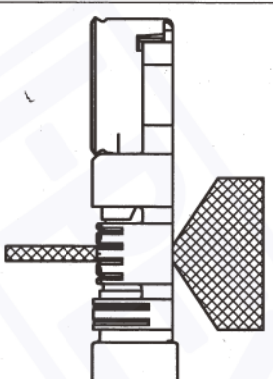
90600-013

90600-010

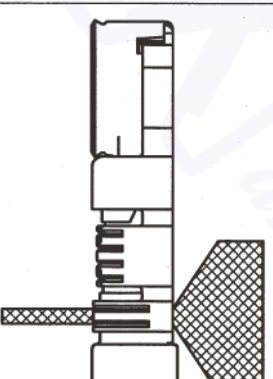
Crimp Height



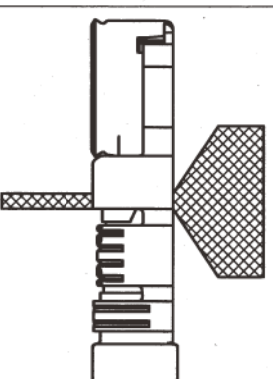
Use for point micrometer

CH-1(i-Fit Part)
1.07~1.11

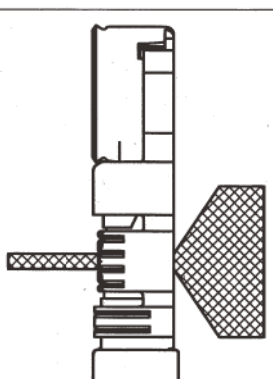
Use for point micrometer

CH-2(Shield Part)
0.90~0.94

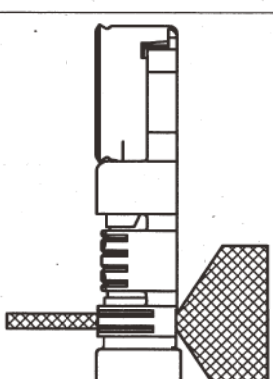
Use for point micrometer

CH-3(Jacket Part)
1.16~1.20

Use for point micrometer

CH-1(i-Fit Part)
1.04~1.08

Use for point micrometer

CH-2(Shield Part)
0.92~0.96

Use for point micrometer

CH-3(Jacket Part)
1.16~1.20

GENERAL TOLERANCE

6 MAX.

±0.2

6 OVER MAX. 30

±0.3

30 OVER MAX. 120

±0.5

ANGLE

±2°

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I-PEX Business Company

TITLE

MHF4L PLUG CONNECTOR

CUSTOMER
COPYPROJECTION
COPY

SCALE

UNIT

DWG. No.

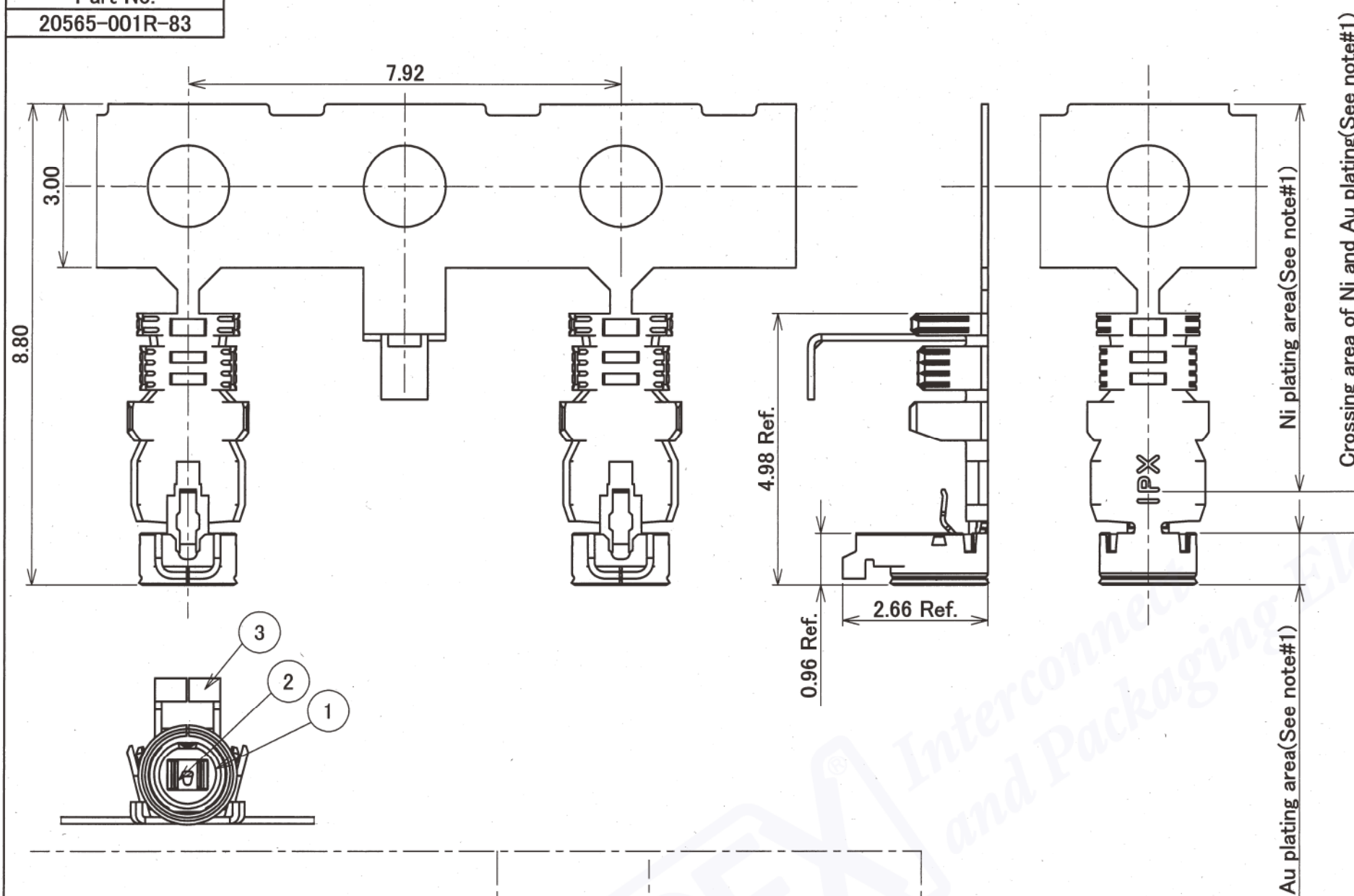
20565

SHEET
2/4REV.
2

Confidential III C

QKE-DFDE06-02 REV.7

Part No.
20565-001R-83



Notes.

1.Material and finish(Plating)

- ①Housing
PBT(Black) UL94V-0
- ②Contact
Phosphor bronze : Au over Ni
- ③Ground Contact
Phosphor bronze
Au plating area : Au over Ni
Ni plating area : Ni only

2.Packing

Reel

3.Mating and unmating instruction

3-1.Mating

Mate the connector vertically as much as possible, adjusting the mating axis of plug and receptacle.
Do not slant mate.

3-2.Unmating

- 3-2-1.In case of unmating by pulling tool(P/N90609-0001)
Use the pulling tool as the following drawing, and pull plug to vertical direction as directly as possible.
- 3-2-2.In case of unmating directly by hand.
Catch the catching area of plug, and pull plug to vertical direction as directly as possible.

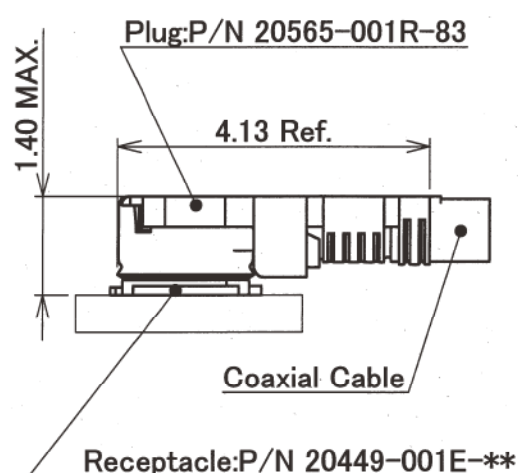
Note 3-1



Note 3-2-1

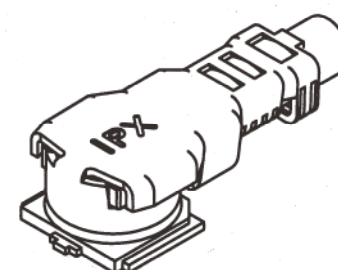
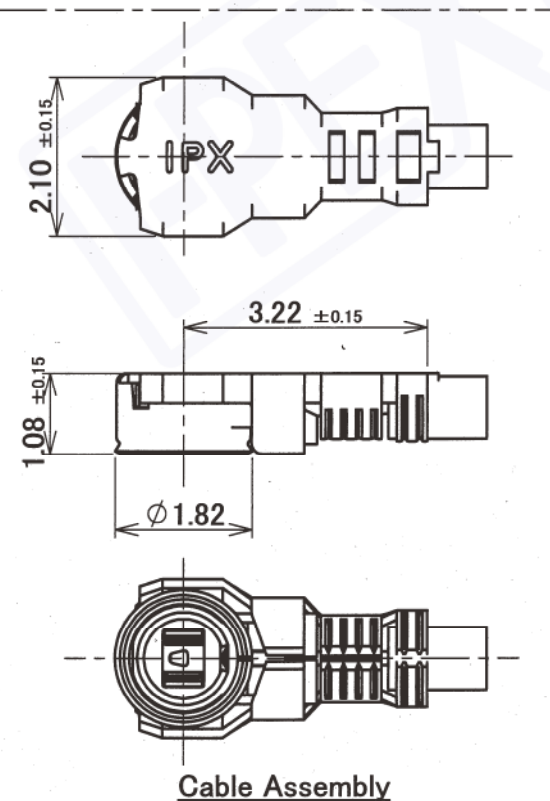


Note 3-2-2



Mating Condition

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°



I-PEX DAI-ICHI SEIKO CO.,LTD.
I-PEX Business Company

TITLE
MHF4L PLUG CONNECTOR

CUSTOMER
COPY

PROJECTION
⊕

SCALE
10:1

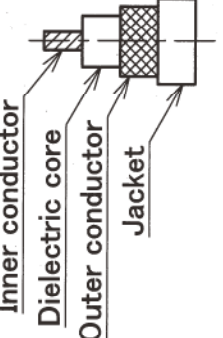
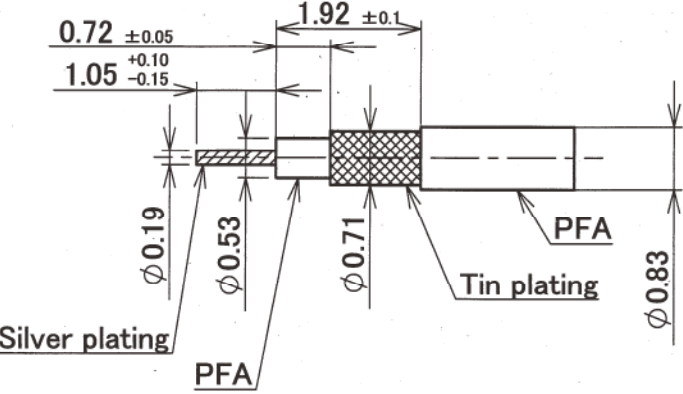
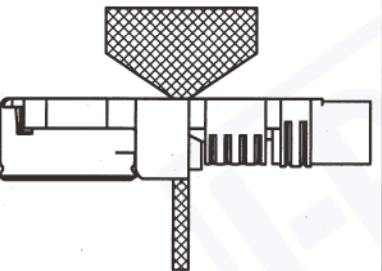
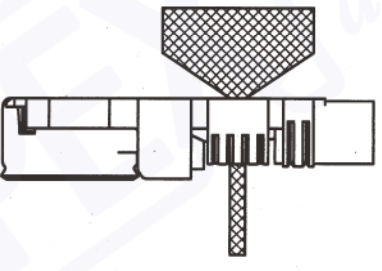
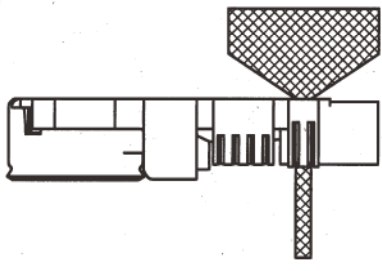
UNIT
mm

DWG. No.

20565

SHEET
3/4

REV.
2

Part No.	20565-001R-83		
Applicable cable strip dimension 	 Requirements Characteristic impedance : 50ohm by TDR method Nominal capacitance(Reference value) : 96pF/m Conductor resistance of inner conductor at 293K (Reference value) : 925ohm/km Insulation resistance : 1000Mega-ohm.km MIN. Dielectric with stance voltage : No breakdown at AC1500V for 1 minutes.		
Braided shield of Outer conductor	Single braided shield		
P/N of semi auto termination machine	90600-083		
Crimp Height	 Use for point micrometer CH-1(i-Fit Part) 0.91~0.95	 Use for point micrometer CH-2(Shield Part) 0.84~0.88	 Use for point micrometer CH-3(Jacket Part) 0.82~0.86

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

Confidential III C

I-PEX DAI-ICHI SEIKO CO.,LTD.
I-PEX Business Company

TITLE
MHF4L PLUG CONNECTOR

CUSTOMER COPY	PROJECTION 	SCALE 10:1	UNIT mm	DWG. No. 20565	SHEET 4/4	REV. 2
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