

MHF[®] 4L Plug

MHF[®] 4L Plug Cable Assembly

Mating profile : 1.70mm MAX. for AWG30 (O.D. 1.37mm) Cable

【Part Number】

O.D. 1.37mm type

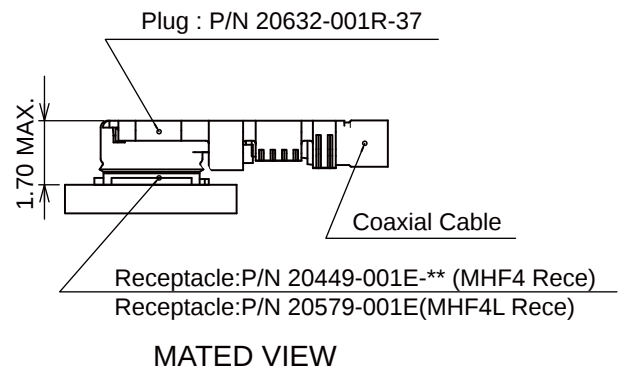
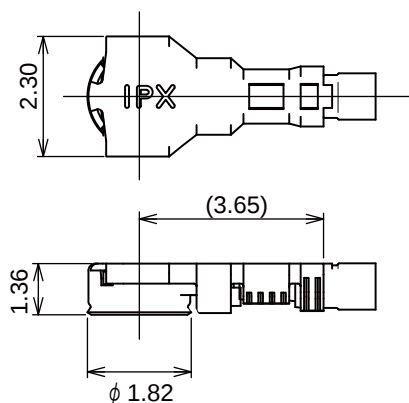
20632 - 001 R - 37

Packing : Reel
1 reel : 2,000pcs

【Applicable Cable gauge】



Part No.	20632-001R-37
	for AWG#30
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】

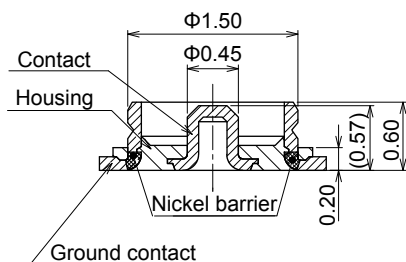
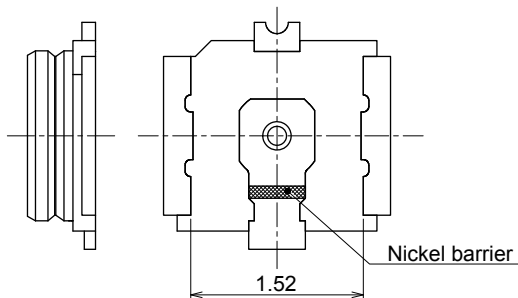
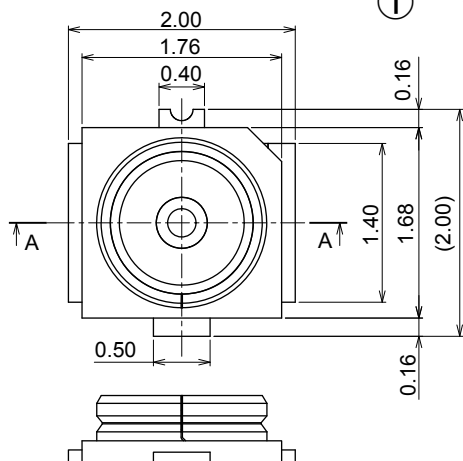
Ground Contact : Au Plating

20579-001 E - **

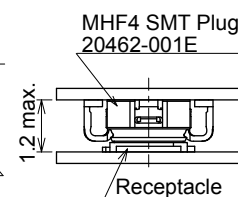
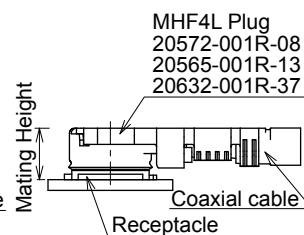
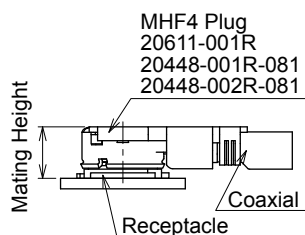
①

②

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



Sect. A-A

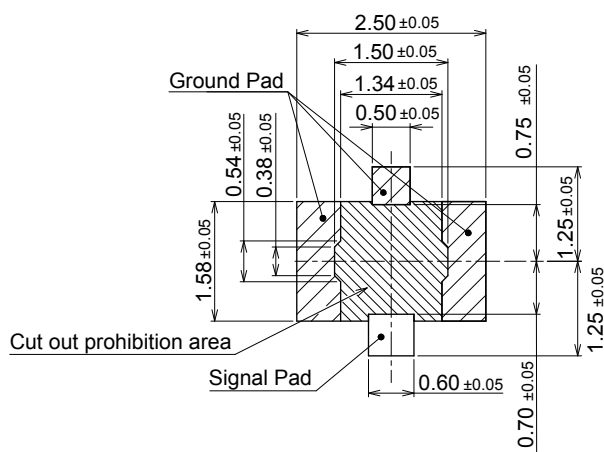


Mating

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

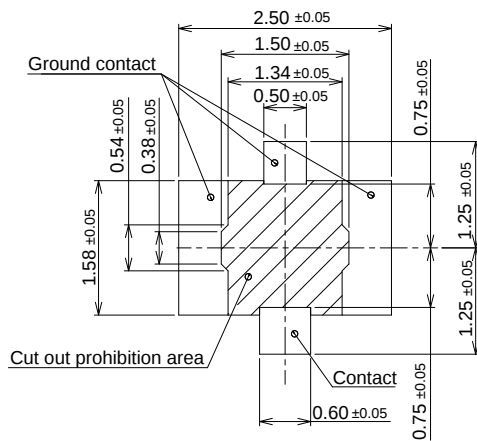
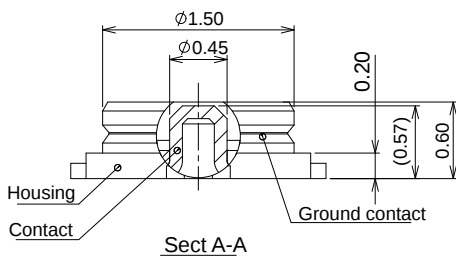
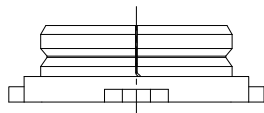
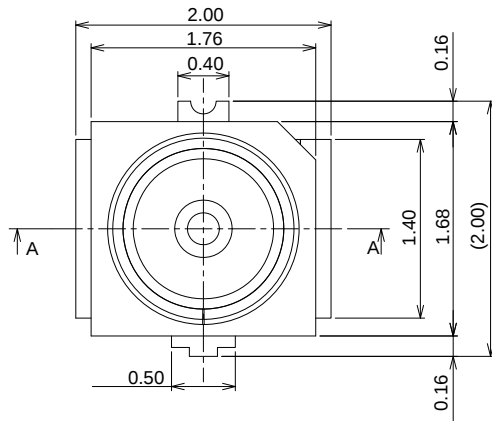
MHF[®] 4 Receptacle

【Part Number】

20449-001 E - **

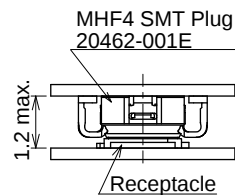
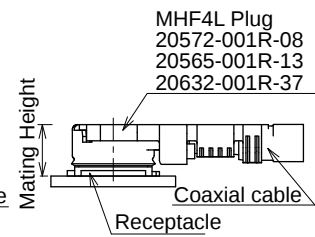
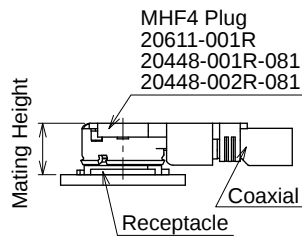
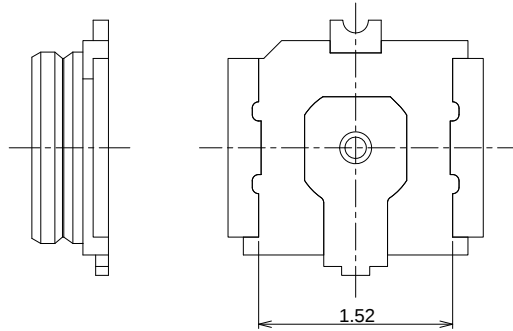
①

②



Recommended foot print pattern

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



Mating

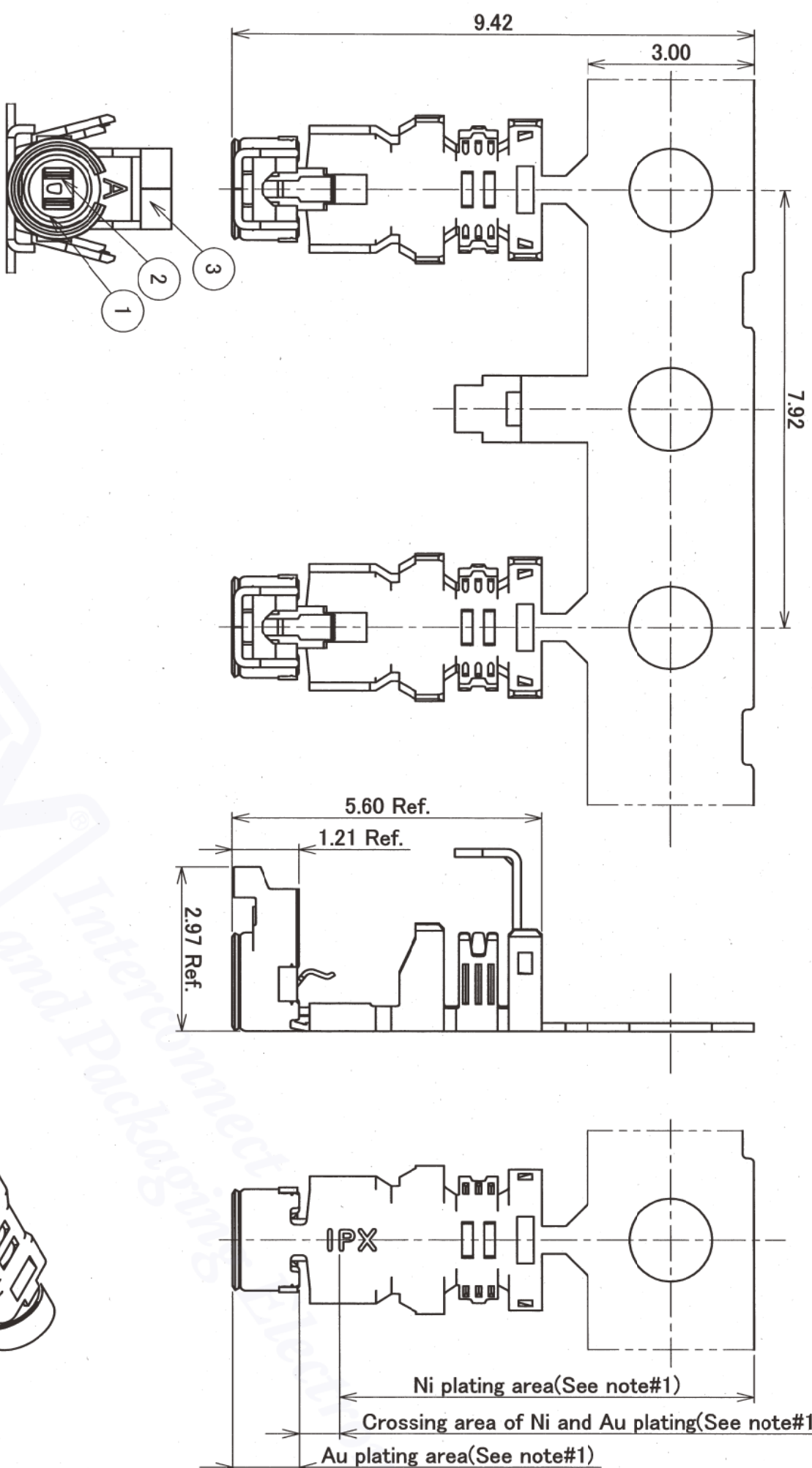
Mating partner part No.

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.

1. Material and finish (Plating)

① Housing
PBT(Black) UL94V-0

② Contact

Phosphor bronze : Au over Ni

③ Ground Contact

Phosphor bronze

Au plating area : Au over Ni

Ni plating area : Ni only

2. Packing

Reel

3. Applicable cable

3-1. Description

Inner conductor

AWG#30(7/0.102)

Silver plating annealed copper wire

*Must not use solder coated inner conductor.

Dielectric core

Fluoro-plastics, diameter 0.88(+0.04/-0.02)mm

nominal thickness 0.29mm

Outer conductor

16/5/0.05, nominal diameter 1.13mm Tin-coated annealed copper wire.

*Must not use solder coated outer conductor

Jacket

Fluoro-plastics, diameter 1.37±0.08mm

nominal thickness 0.12mm

3-2. Requirements

Characteristic impedance : 50(±2)ohm by TDR method

Nominal capacitance : 98pF/m

Conductor resistance of inner conductor : 320 ohm/km

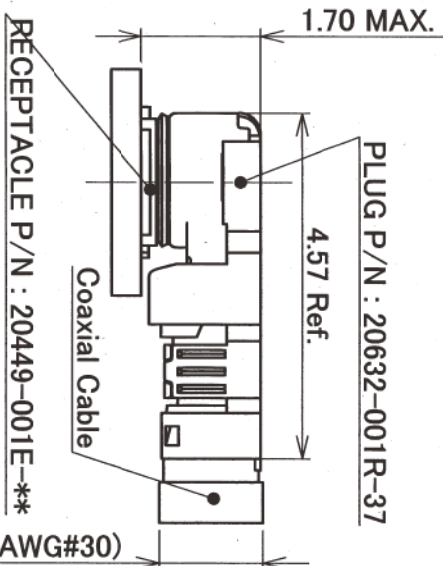
Insulation resistance : 1500Mega-ohm. km MIN.

Dielectric with stance voltage :

No breakdown at AC1500V for 1 minutes.

4. Applicable connector

P/N:20449-001E-**-MHF4 Receptacle



Mating Condition

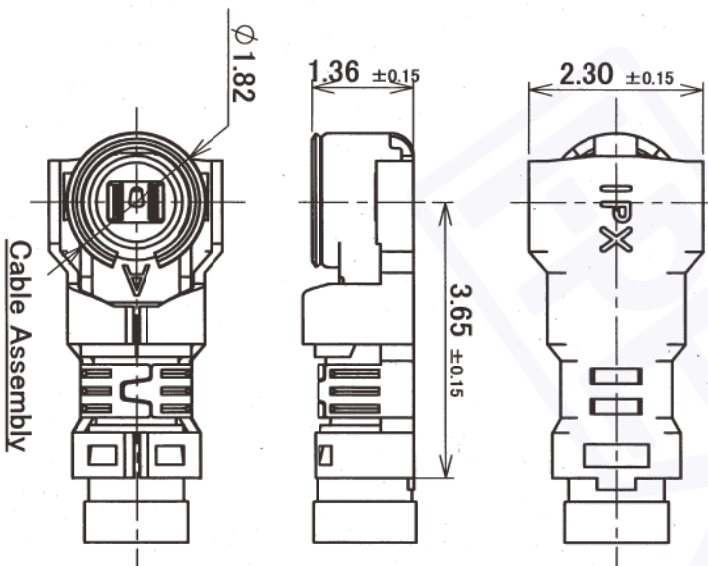
GENERAL TOLERANCE

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

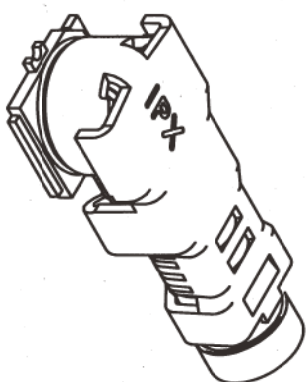
RECEPTACLE P/N : 20449-001E-**-**

Coaxial Cable

ϕ 1.37 cable (AWG#30)



Cable Assembly



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

TITLE

MHF 4L PLUG CONNECTOR

SERIES No.

R1

CUSTOMER
COPY

PROJECTION

SCALE
10:1 mm

UNIT
mm

DWG. No.
20632

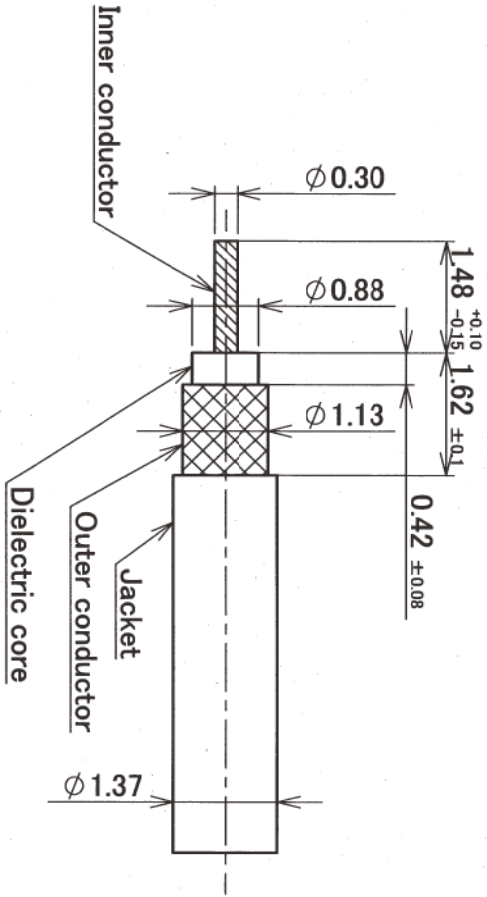
SHEET
1/2

REV.
0

Part No.

20632-001R-37

Applicable cable
strip dimension



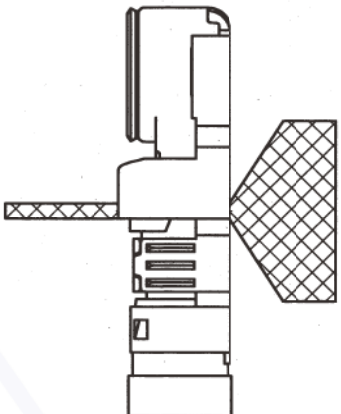
Braided shield of
Outer conductor

single braided shield

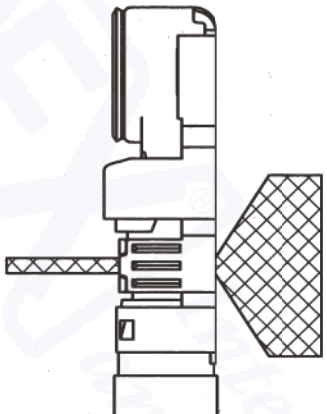
P/N of semi auto
termination machine

90703-037

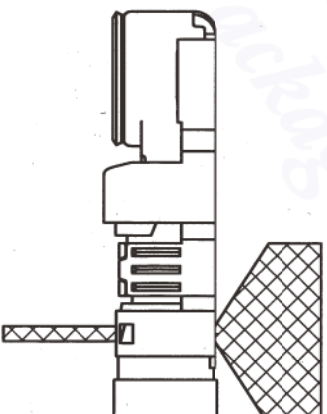
Crimp Height



CH-1(i-Fit Part) : 1.46~1.50



CH-2(Shield Part) : 1.16~1.20



CH-1(Jacket Part) : 1.27~1.31

GENERAL TOLERANCE

6 MAX. ± 0.2

6 OVER MAX. 30 ± 0.3

30 OVER MAX. 120 ± 0.5

ANGLE $\pm 2^{\circ}$

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

TITLE

MHF 4L PLUG CONNECTOR

CUSTOMER
COPY



SCALE
10:1

UNIT
mm

DWG. No.

20632

SHEET
2/2

REV.
0

Confidential III C

QKE-DFFDE06-02 REV.7