

MHF®-A13 Plug Cable Assembly

Mating profile : **1.45mm MAX.**

Applicable for AWG32 (ϕ 1.13mm) Cable

【Part Number】

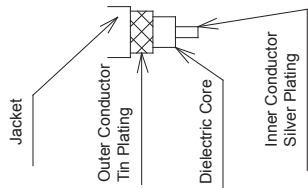
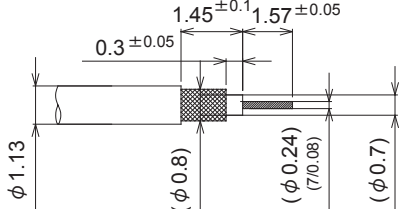
Ground Contact : **Au** Plating

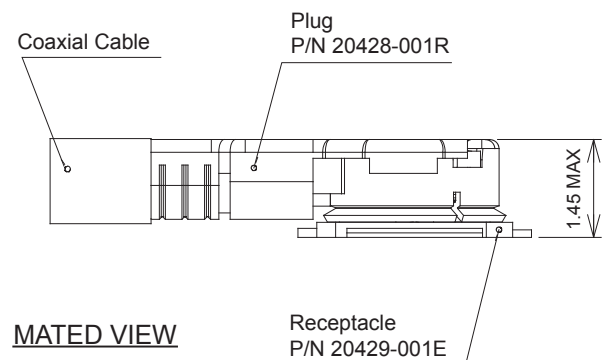
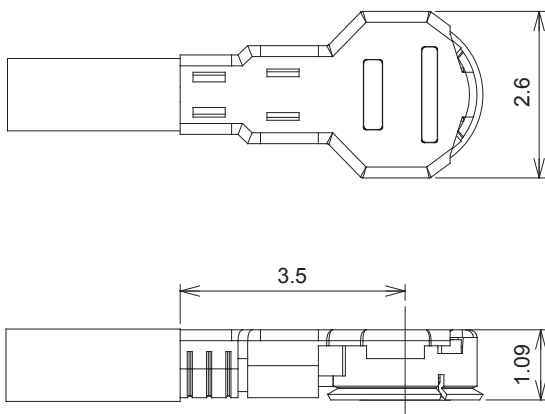
20428 - 001 R

Packing : Reel

1 reel : 2,000pcs

【Applicable Cable gauge】

Part No. (Au)	20428-001R
Part No. (Ag)	—
	for AWG#32
Applicable Cable Nominal Dimension 	
Braided Shield of Outer Conductor	Single Braided Shield



【Material and Finish】

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

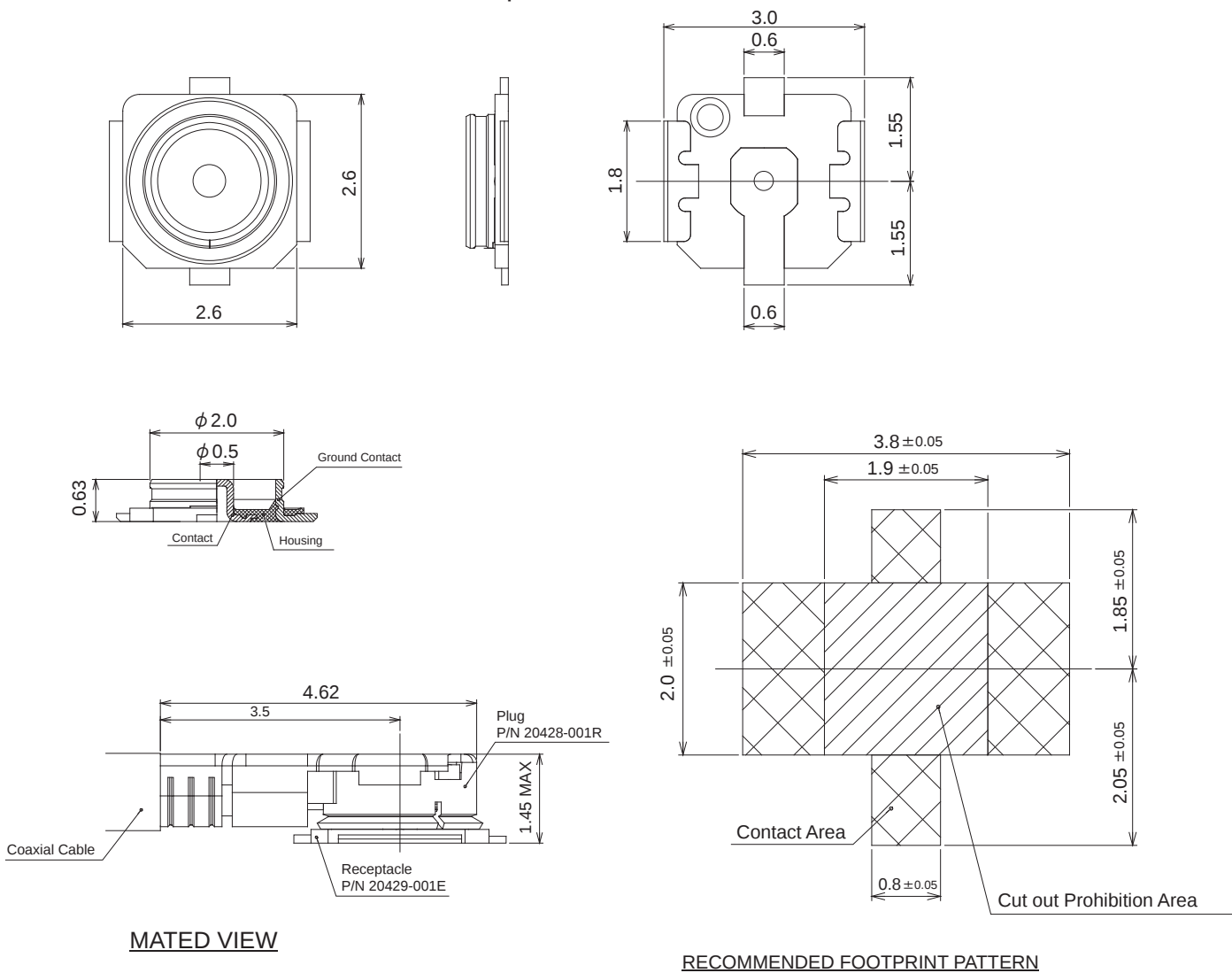
MHF[®]-A Receptacle

【Part Number】

Ground Contact : **Au** Plating

20429-001 E

Packing : Emboss Tape
1reel : 5,000pcs

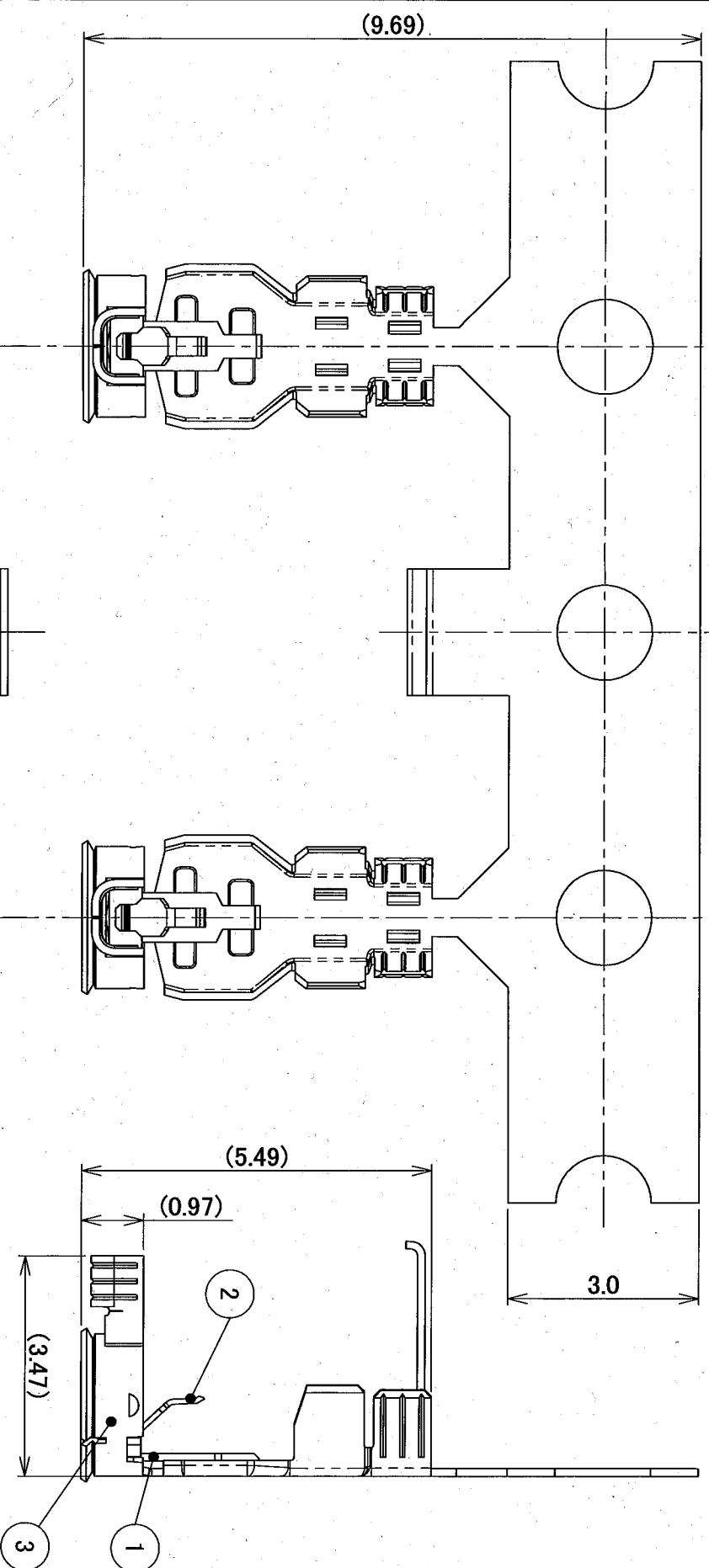


【Material and Finish】

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

PART NO.
20428-001R

9.0



NOTES

1. MATERIAL
①HOUSING : PBT (BLACK), UL94V-0
②CONTACT : Phosphor Bronze, Au OVER Ni
③GROUND CONTACT : Phosphor Bronze, Au OVER Ni

2. PACKING : REEL

3. APPLICABLE CABLE
3-1. DISCRPTION

Inner conductor : AWG#32 (7/0.08)

Silver plating annealed copper wire or silver plating tin-copper alloy.

* Must not use solder coated inner conductor.

Dielectric core : Fluoro-plastics, diameter 0.68 (+0.04/-0.02)mm, nominal thickness 0.22mm.

Outer conductor : 16/4/0.05, nominal diameter 0.93mm, silver plating annealed copper wire.

Jacket * Must not use solder coated outer conductor.

: Fluoro-plastics, diameter 1.13 (+0.08/-0.05)mm, nominal thickness 0.1mm.

3-2. REQUIREMENTS

Characteristic impedance : 50 (+2/-2)ohm by TDR method

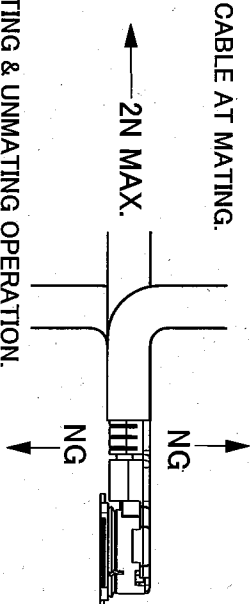
Nominal capacitance (Refer value) : 97 pF/m

Conductor resistance of inner conductor at 293K (Referencevalu) : 520 ohm/km

Insulation resistance : 1500 mega-ohm/km MIN.

Dielectric withstance voltage : No breakdown at AC100V for 1 minutes.

4. PERMISSIBLE LOAD OF CABLE AT MATING.



5. SUGGESTIONS FOR MATING & UNMATING OPERATION.

5-1. MATING

Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle.

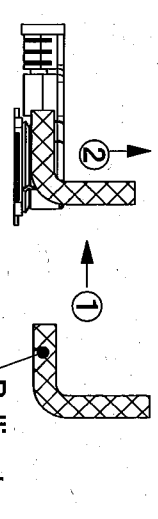
As excessive slant angle mating may break the connector, please don't do it.

5-2. UNMATING

5-2-1.

In case of unmating by pulling till.

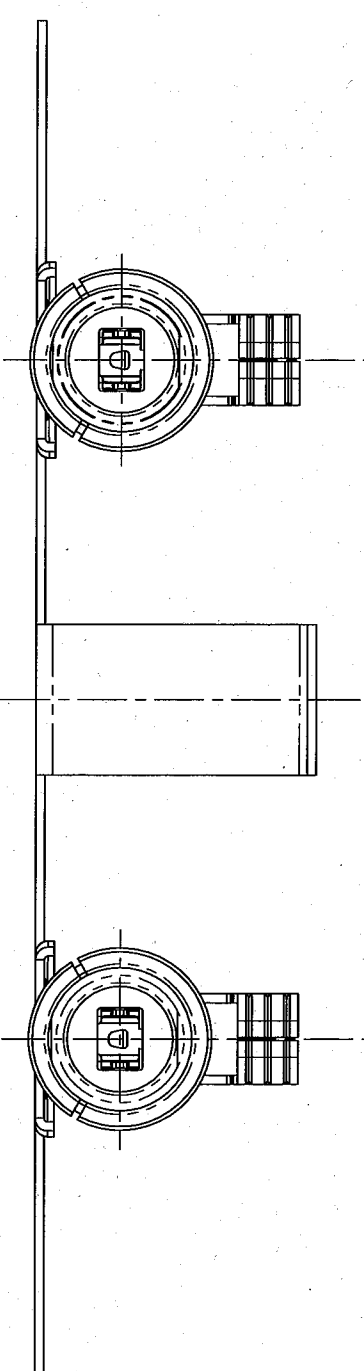
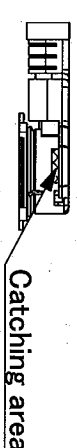
Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.



5-2-2.

In case of unmating directly by hand.

Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.



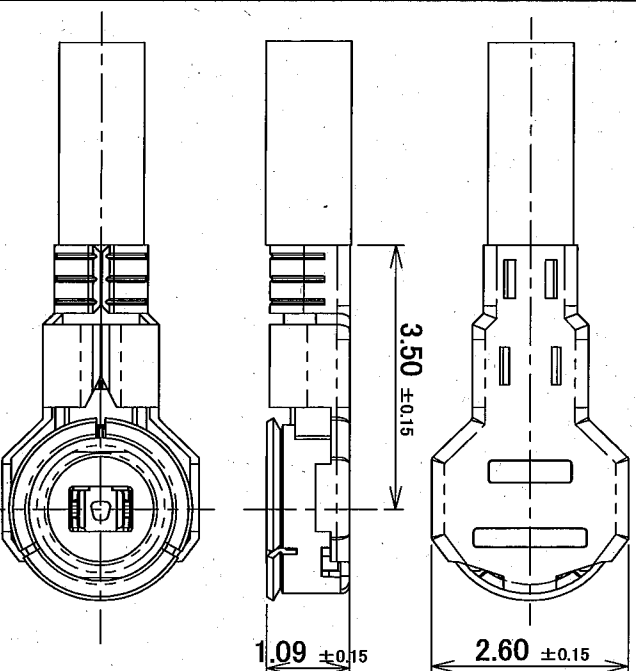
PLUG
P/N 20428-001R

COAXIAL CABLE

RECEPTACLE
P/N : 20429-001E

MATING

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



CABLE ASSEMBLY

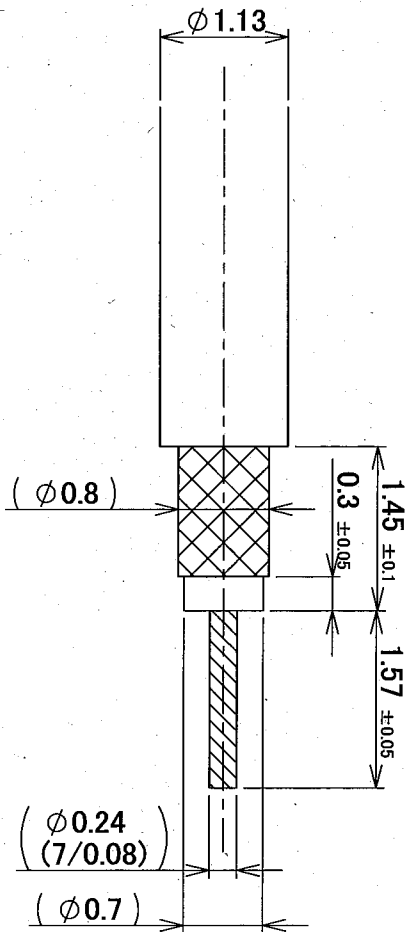
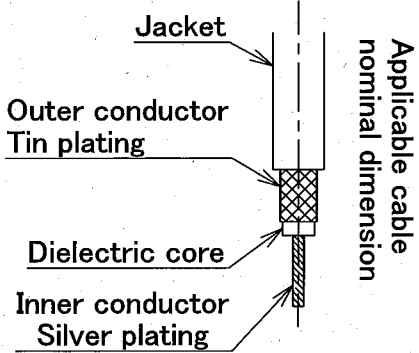
4	2006/12/24	H.M.	2006/10/12	TAK	DESIGN BY	DATE
3	2007/3/15	TAK	2007/06/28	E.K.	T.Hirakawa	2006/10/30
2	2007/2/29	TAK	2007/06/18	E.K.	CHK'D BY	DATE
1	2007/06/2	Y.H.	2007/06/06	E.K.	APP'D BY	DATE
0	2006/5/8	TAK	2006/10/30	E.Kawabe		2006/10/30
REV	ECN	BY	DATE	APP		
REV.RECORD						
CUSTOMER COPY				PROJECTION		
SERIES No.				SCALE UNIT DWG. No. SHEET REV.		
10:1 mm 20428 1/2 4				TITLE		
MHE-A13 CONNECTOR PLUG ASS'Y						
I-PEX DA-ICHI SEIKO CO.,LTD. I-Pex Business Company						

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

TITLE
MHF-A13 CONNECTOR PLUG ASS'Y

PART NO.

20428-001R



Must not use solder coated inner conductor and outer conductor.

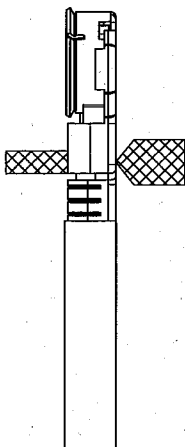
Braid shield of
outer conductor
外部導体の編組

Single / 1 重編組

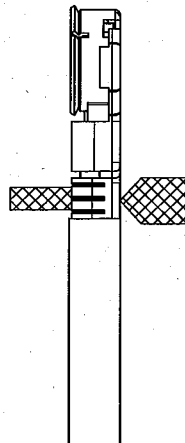
P/N of semi auto
termination machine

90420-013 (Semi-auto)

Crimp Height



Use for point micrometer.

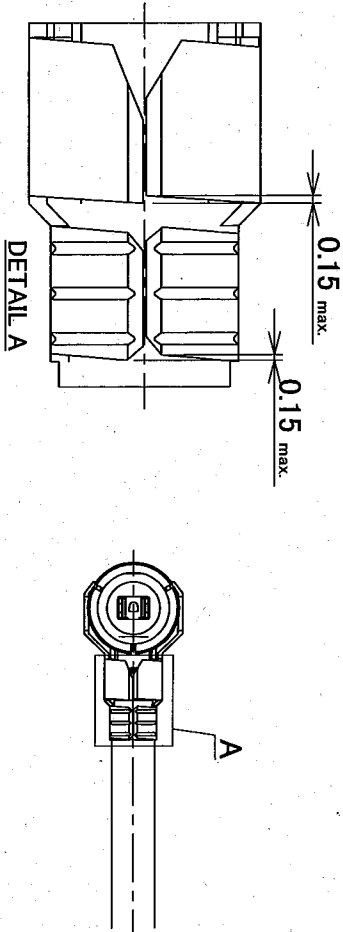


Use for point micrometer.

CH-1 (i-Fit PART) : 1.055~1.105

CH-2 (Jacket PART) : 1.06~1.13

Barrel Gap



DESIGN'D BY

DATE

CHK'D BY

DATE

APP'D BY

DATE

TITLE

MHF-A13 CONNECTOR PLUG ASS'Y

I-PEX DAICHI SEIKO CO.,LTD.
I-Pex Business Company

CUSTOMER
COPY



SCALE
15:1

UNIT
mm

DWG. No.

20428

SHEET
2/2

REV.
4