

MHF[®] 4 Plug Cable Assembly

Mating profile : **1.2mm MAX.**

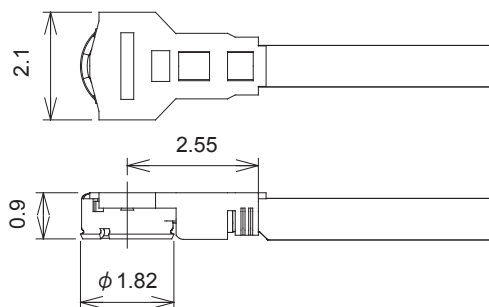
Applicable for AWG36 ($\phi 0.81\text{mm}$) Cable

【Part Number】

Ground Contact : **Au Plating**

20448 - 001 R -081

Packing : Reel
1 reel : 2,000pcs



【Applicable Cable gauge】

Part No. (Au)	20448-001R-081
Part No. (Ag)	-
	for AWG#36
Minimum 1.16 ± 0.09 0.30 ± 0.1 1.02 ± 0.1 AWG#36(7/0.05) ($\phi 0.15$) Inner conductor $\phi 0.42$ Dielectric core ($\phi 0.65$) Outer conductor $\phi 0.81$ Jacket	
Braided Shield of Outer Conductor	Single Braided Shield

MHF[®] 4 SMT Plug

Mating profile : **1.2mm MAX. + FPC**

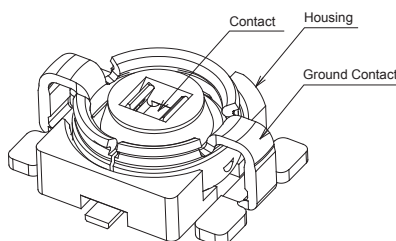
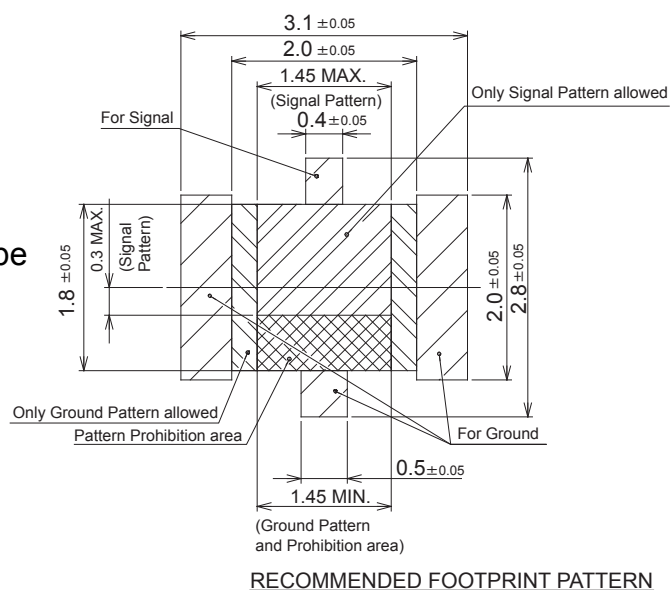
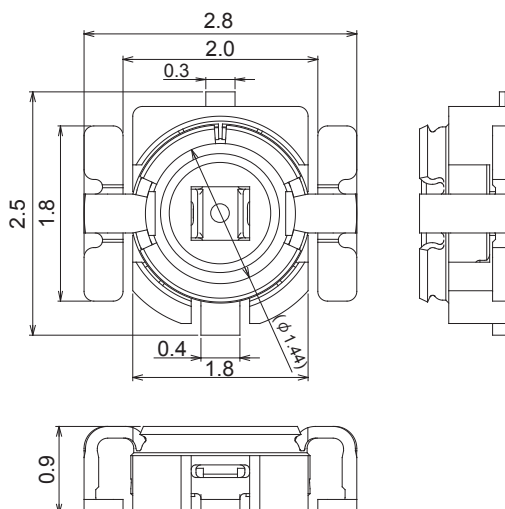
Applicable for FPC

【Part Number】

Ground Contact : **Au Plating**

20462 - 001 E

※ Packing : Emboss Tape
1 reel : 5,000pcs



【Material and Finish】

Parts	Material (Plug)	Material (SMT Plug)	Plating / Color
HOUSING	PBT UL94V-0	LCP UL94V-0	BLACK
CONTACT	COPPER ALLOY	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	COPPER ALLOY	Au

MHF[®] 4 Receptacle

【Part Number】

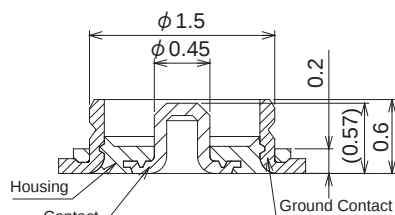
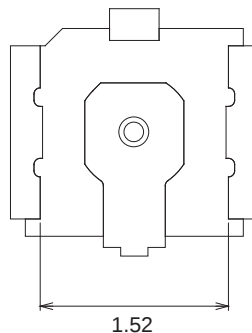
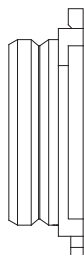
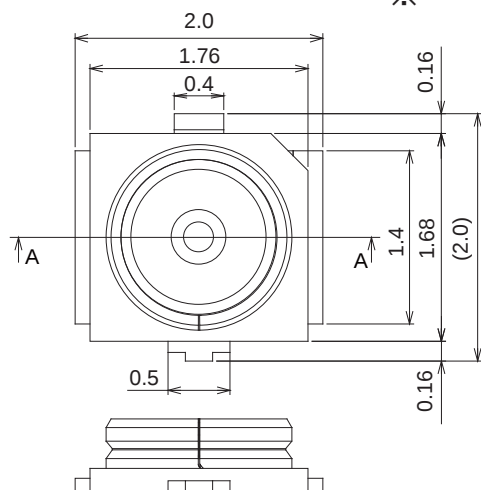
Ground Contact : Au Plating

20449-001 E

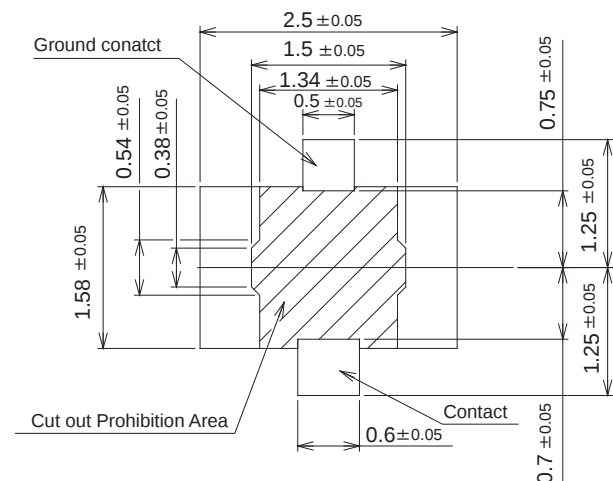
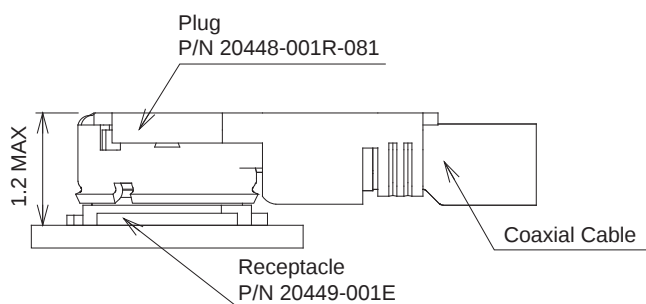
※

※Packing : Emboss Tape

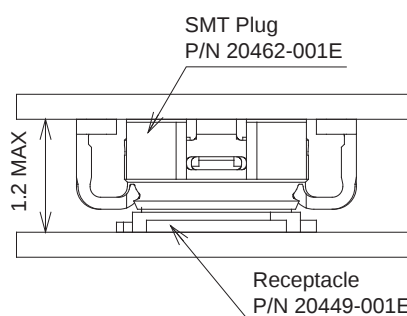
1reel : 10,000pcs



Sect. A-A



RECOMMENDED FOOTPRINT PATTERN

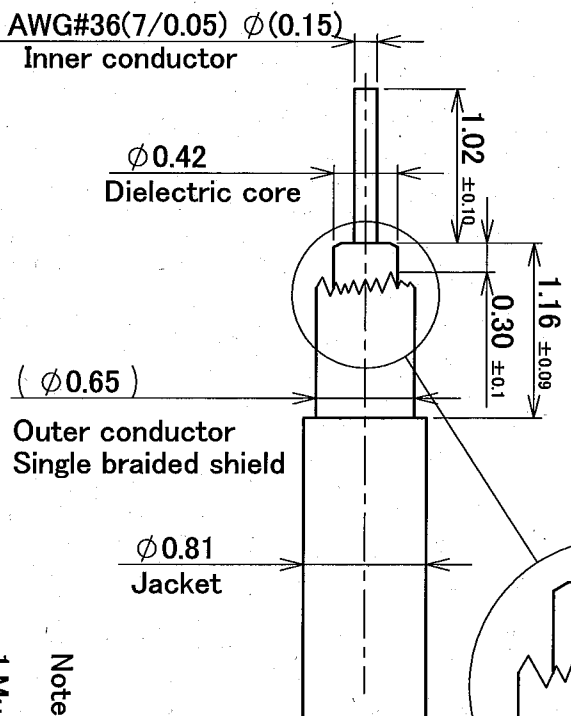
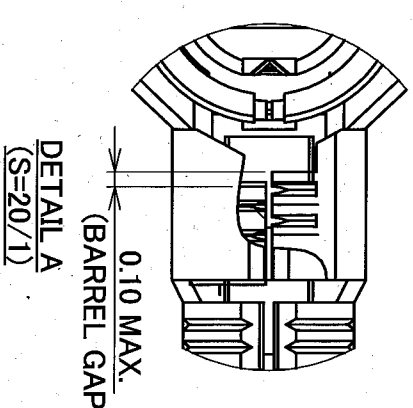
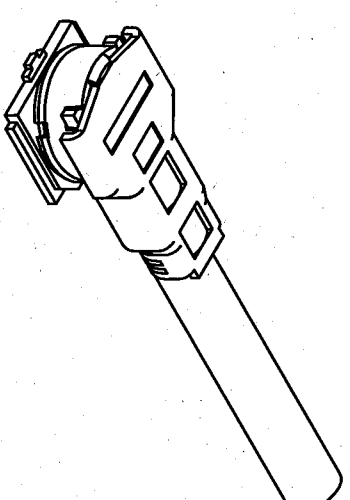
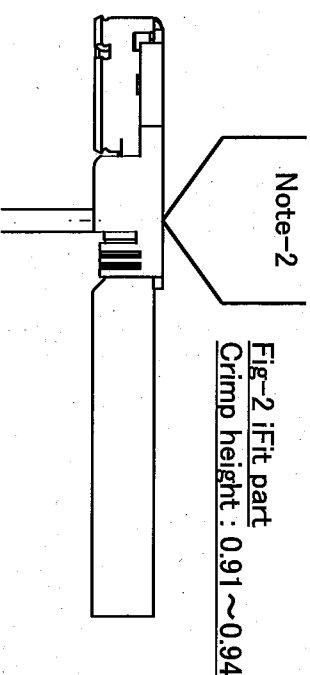
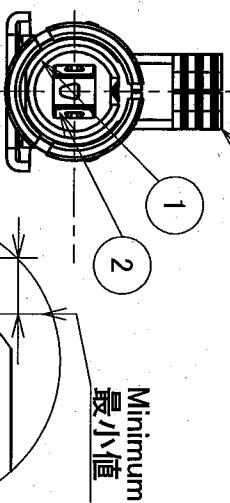
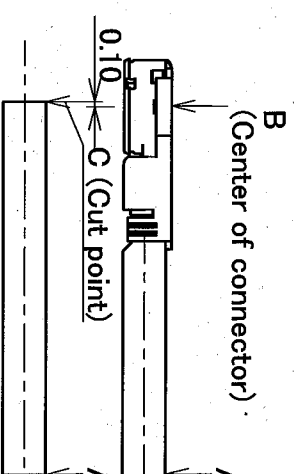
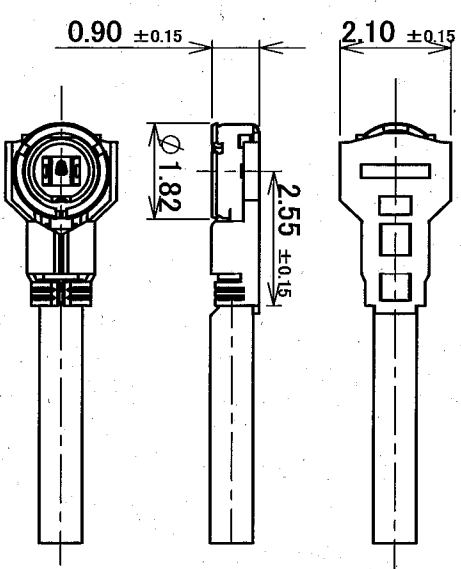
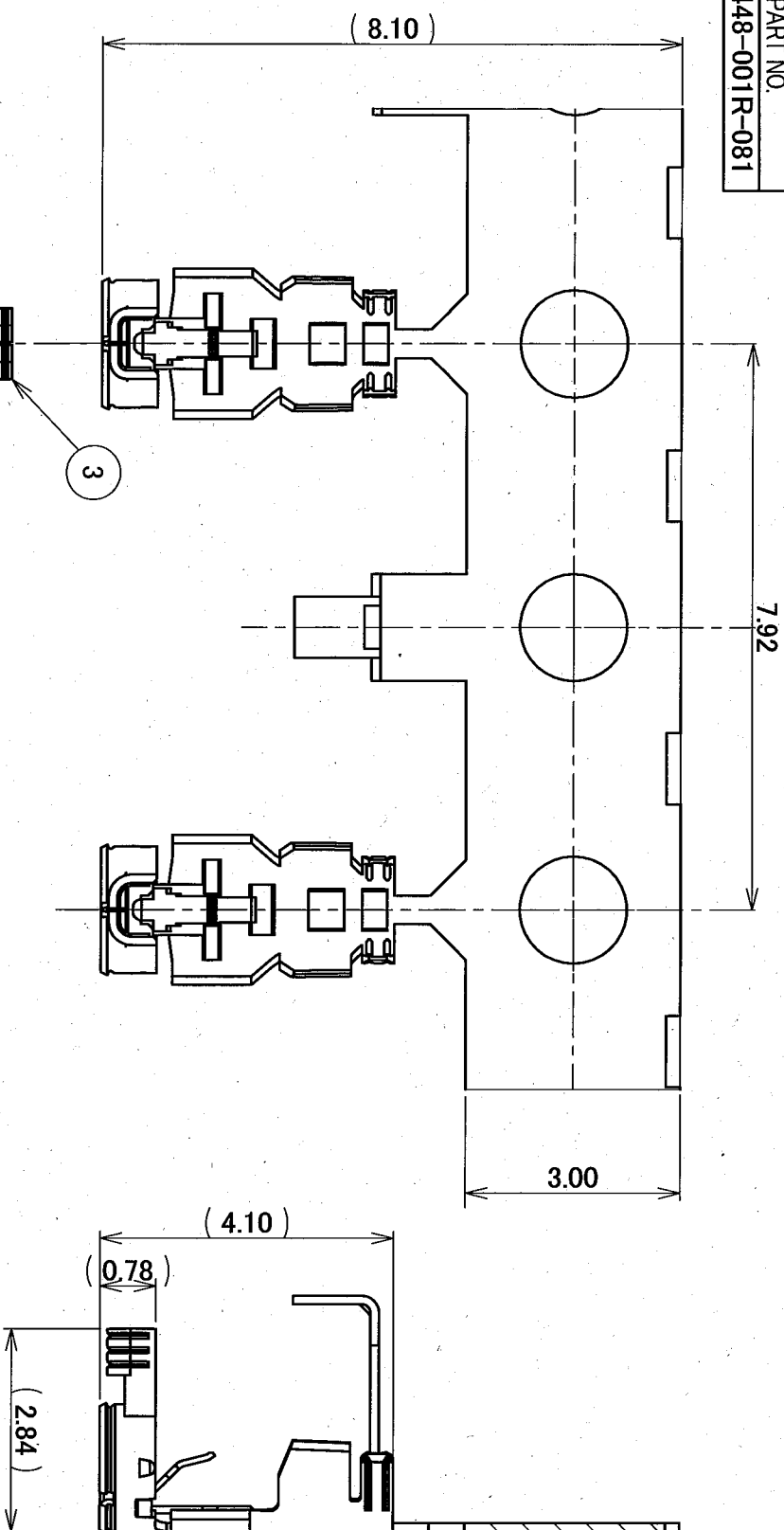


MATED VIEW

【Material and Finish】

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

PART NO.
20448-001R-081



Notes

1. Must not use solder coated inner conductor and outer conductor. 中心導体, 外部導体への半田コーティングは禁止。
2. Use point micrometer. ポイントマイクロメータ使用の事。
3. Mating partner part No. / 嵌合相手のpart No. 20449-001E

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

REV	ECN	BY	DATE	APP	DESIGN BY	DATE
3	Z12764	H.H	Sep/06/12	Tow	K. Ohbayashi	Sep/11/07
2	Z11293	S.M	Jun/29/11	E.K	CHKD BY	DATE
1	Z07498	K.O	Sep/25/07	E.K	CHKD BY	DATE
0	Z07469	K.O	Sep/11/07		APPD BY	DATE
REV	ECN	BY	DATE	APP	T. Harada	Sep/12/07
REV/RECORD				CUSTOMER COPY		
SERIES No.				PROJECTION		

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

MHF4 Connector plug

SCALE	UNIT	DWG. No.	SHEET	REV.
10:1	mm	20448	1/2	3

Notes

1.Material

① Housing : PBT, black, UL94V-0

② Contact

Phosphor bonze

Gold 0.3 μ m Min. over nickel 1 μ m Min.

③ Ground contact

Phosphor bonze

Gold 0.05 μ m Min. over nickel 1.27 μ m Min.

2.Packing

Reel

3.Permissible load of cable at mating as Fig-7

4.Suggestions for mating & unmating

4-1 Mating

4-1-1 In case of unmating by pushing tool.

Please mate the connector straightly as Fig-8

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 mate at excessive slant angle.

4-1-2 In case of unmating by hand.

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 mate at excessive slant angle.

4-2 Unmating

4-2-1 In case of unmating by pulling tool.

Please use the pulling tool as Fig-9 , and pull plug

to vertical direction as directly as possible.

4-2-2 In case of unmating directly by hand.

Please catch the catching (as Fig-10) area of plug,

and pull to vertical direction as directly as possible.

1.材質
(1) ハウジング:PBT, 黒, UL94V-0
(2) コンタクト
りん青銅

金めつき0.3 μ m Min., 下地 ニッケル 1 μ m Min.
(3) グランドコンタクト
りん青銅

金めつき0.05 μ m Min., 下地 ニッケル 1.27 μ m Min.

2.梱包

リール梱包

3. コネクタ嵌合時のケーブルに対する荷重 Fig-7参照

4. コネクタ嵌合時,抜去時の注意

4-1 コネクタ嵌合の注意

4-1-1 挿入ジグを用いる場合

プラグとリセクタクルの嵌合軸を合わせ, Fig-8のようにできる

限り垂直に挿入して下さい。

極端な斜め挿入は行わないでください。

4-1-2 手で直接嵌合する場合

プラグとリセクタクルの嵌合軸を合わせ, できる限り垂直に

挿入して下さい。

極端な斜め挿入は行わないでください。

4-2 コネクタ抜去時の注意

4-2-1 抜去ジグを用いる場合

Fig-9のようにできる限り垂直に抜去して下さい。

4-2-2 手で直接抜去する場合

Fig-10の“Catching area”をつかみ,できる限り垂直に

抜去して下さい。

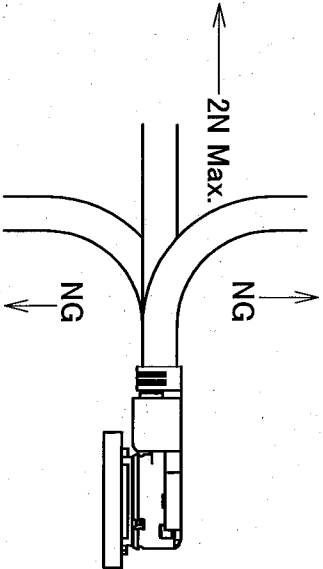


Fig-7

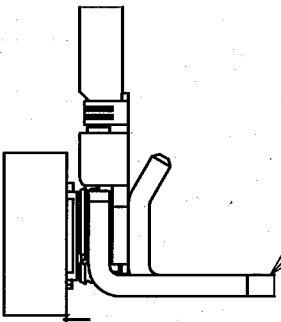


Fig-8

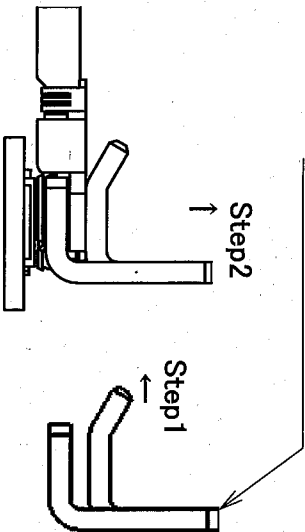


Fig-9



Catching area

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

DESIGN BY	DATE	TITLE									
CHK'D BY	DATE	MHF4 Connector plug									
APP'D BY	DATE	I-PEX DA-ICHI SEIKO CO.,LTD. I-Pex Business Company									
REV	ECN	BY	DATE	APP	CUSTOMER COPY	PROJECTION	SCALE	UNIT	DWG. No.	SHEET	REV.
REV/RECORD											
SERIES No.											