

# MHF® I LK

嵌合ロック機構搭載RFコネクタ 対応周波数～9GHz、嵌合高さ2.9 mm max



**Product Specifications:**

Mated Height (mm max.)	2.9		
Rece. SMT Size (mm)	3.0 x 3.0		
Applicable Frequency	DC ~ 9 GHz		
Characteristic Impedance	50 ohm		
VSWR (L=100 mm)	Connector	PLUG	RECEPTACLE
	DC~3 GHz	1.3 max.	1.3 max.
	3~6 GHz	1.5 max.	1.4 max.
	6~9 GHz	1.9 max.	1.8 max.

**Applicable Cable Size:**

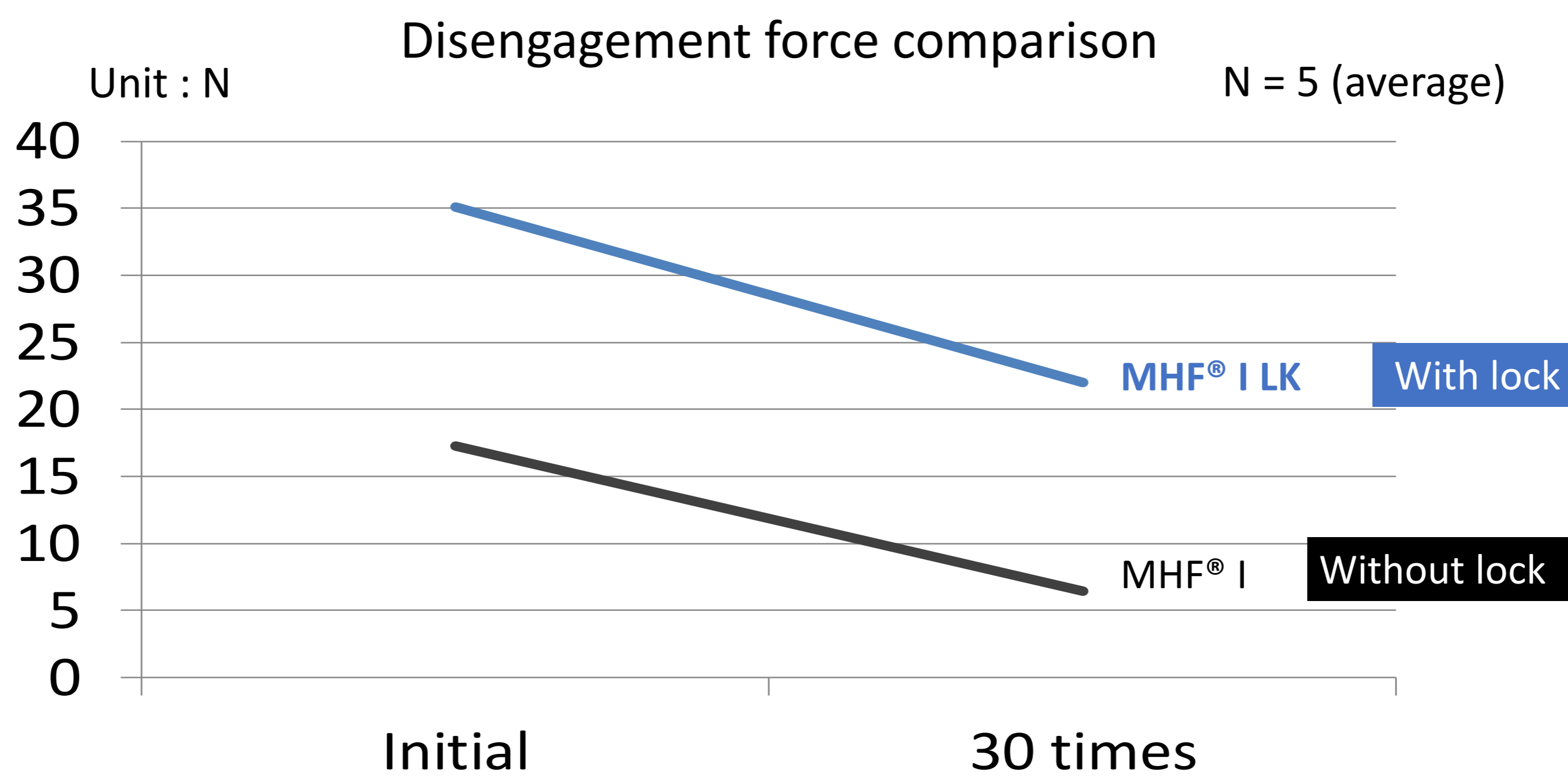
O.D. 1.80 mm / AWG 30
O.D. 1.37 mm / AWG 30
O.D. 1.32 mm / AWG 32
O.D. 1.13 mm / AWG 32
O.D. 0.81 mm / AWG 36

**Applicable Standards (Reference Only):**

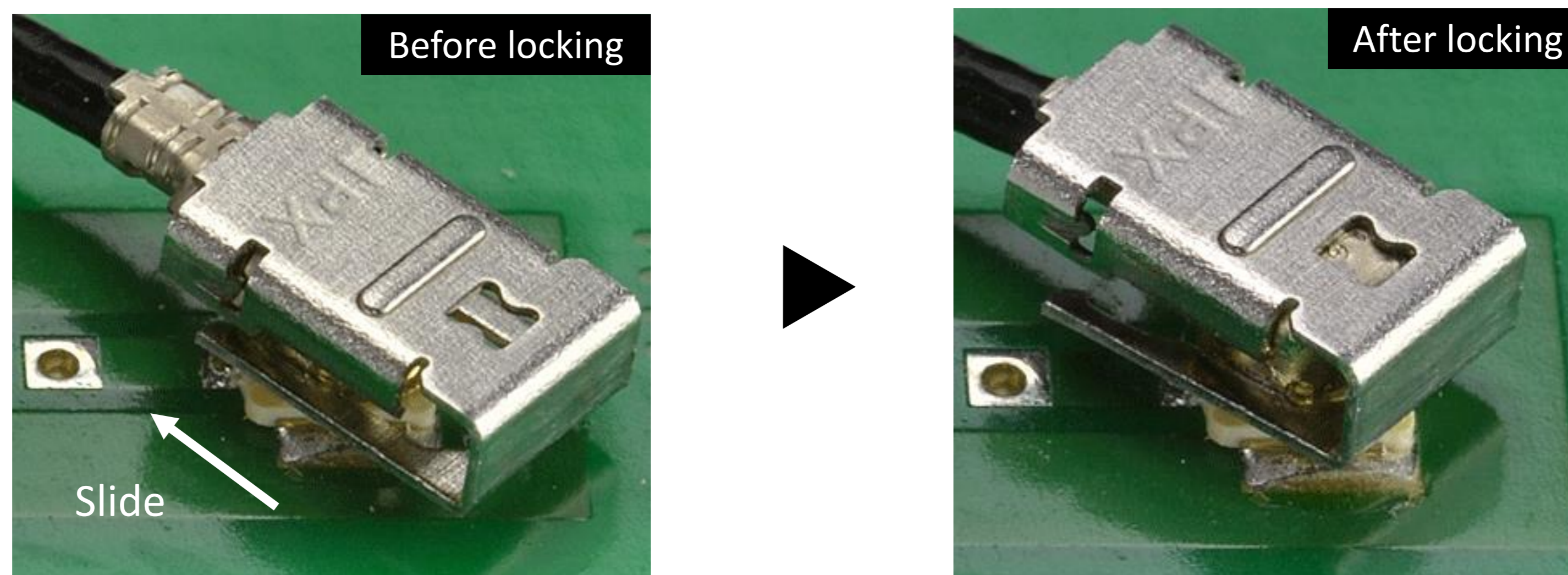
5G sub-6, Wi-Fi 6E, LTE/LTE-Advanced, LPWA, Bluetooth, GPS

\*記載のない極数の対応状況についてはお問い合わせください。

## ▶ 継続的な衝撃及び振動対策に最適



## ▶ MHF® I プラグ用嵌合ロックシステム



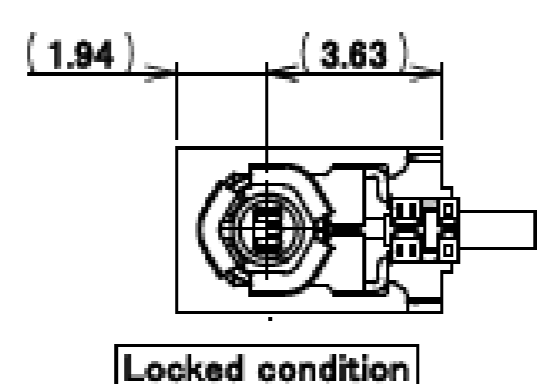
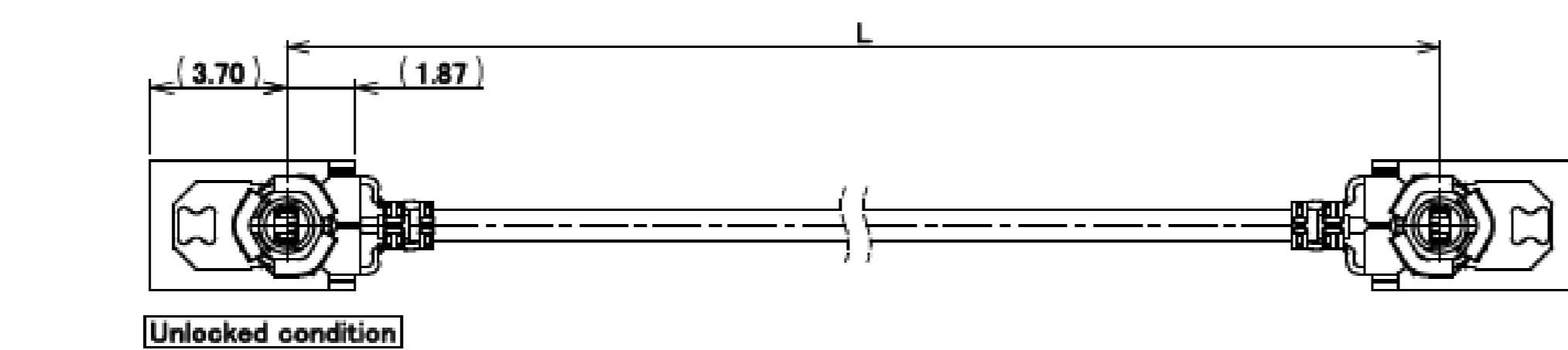
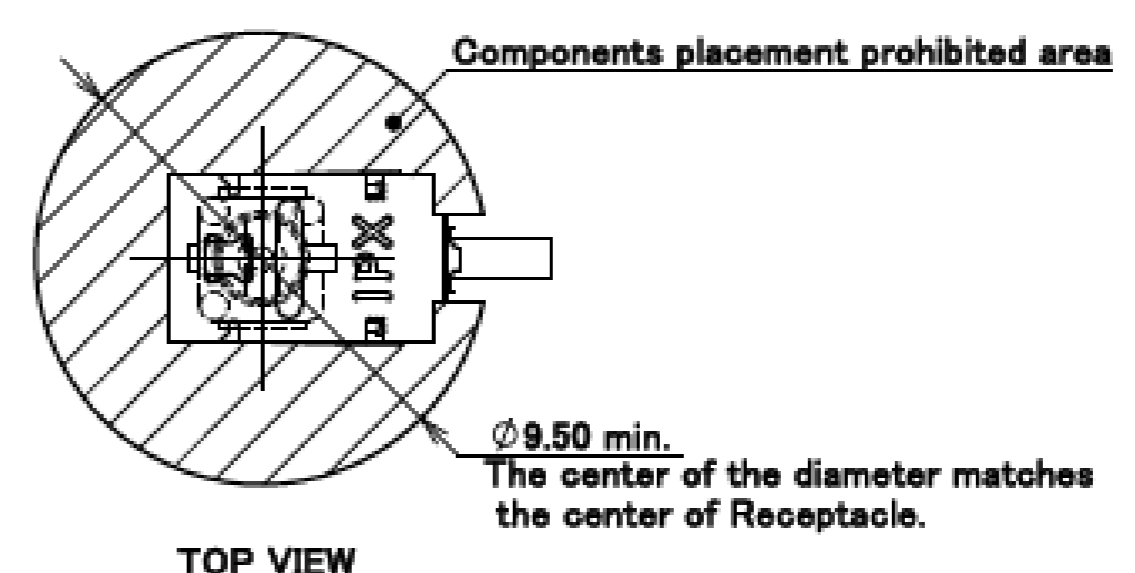
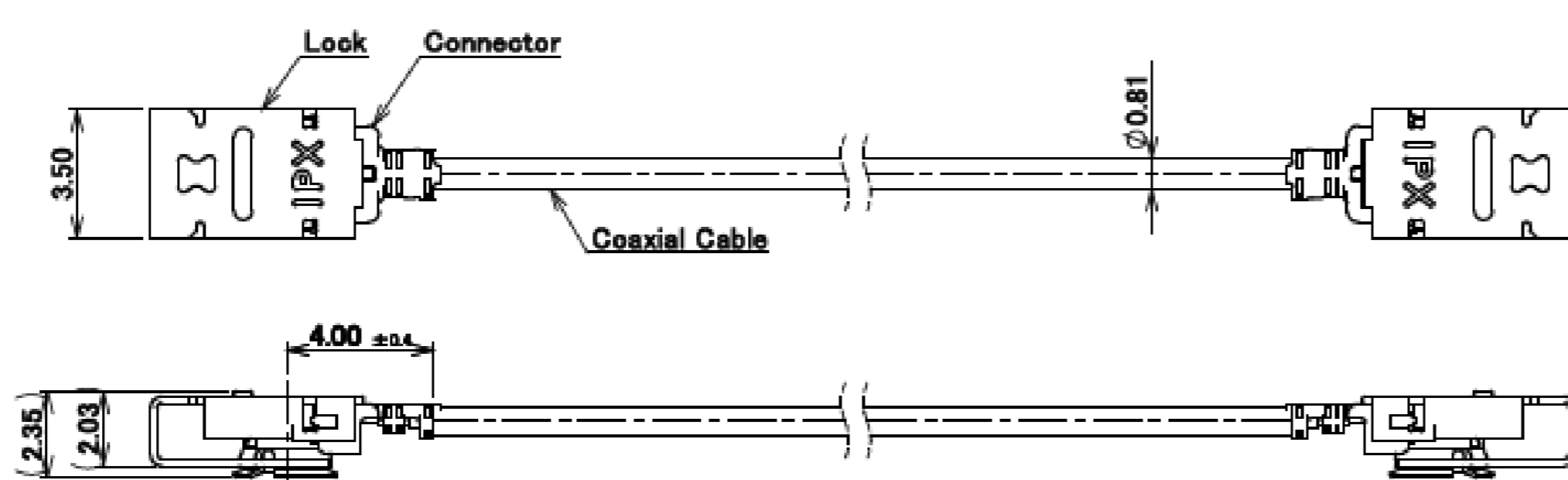
## ▶ すべてのMHF® I レセプタクルに嵌合可能

Product name	MHF® I LK	MHF® I	
Lock	Yes	No	No
Mating Height	2.9 mm max.	2.5 mm max.	3.0 mm max.
Coax O.D. (Center Conductor AWG)	2.00 mm (AWG#26)		●
	1.80 mm (AWG#30)	●	
	1.37 mm (AWG#30)	●	
	1.32 mm (AWG#32)	●	
	1.13 mm (AWG#32)	●	
	0.81 mm (AWG#36)	●	
Receptacle		MHF® I receptacle 20279-001E-** (3 pads) / 20441-001E-01 (4 pads)	

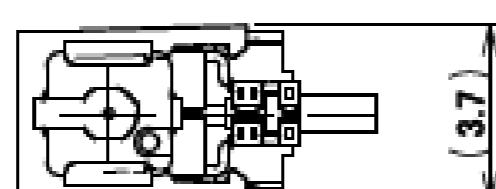
# Component Parts Details

MHF® I LK

**Cable :  $\Phi 0.81$  mm**



• Don't be mating with the receptacle when this condition.

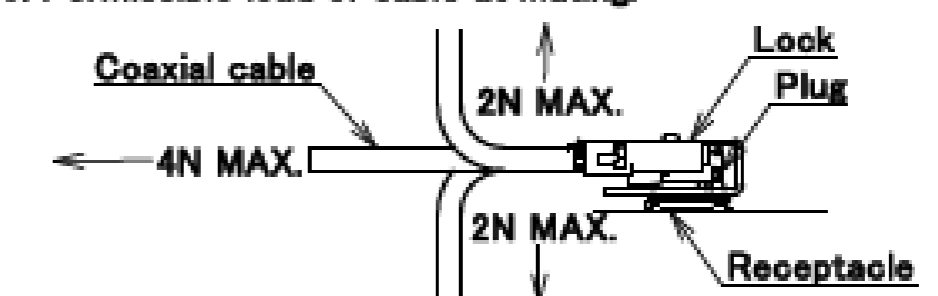


• The dimensions of lock bottom width when mating with receptacle and locked.

**BOTTOM VIEW**

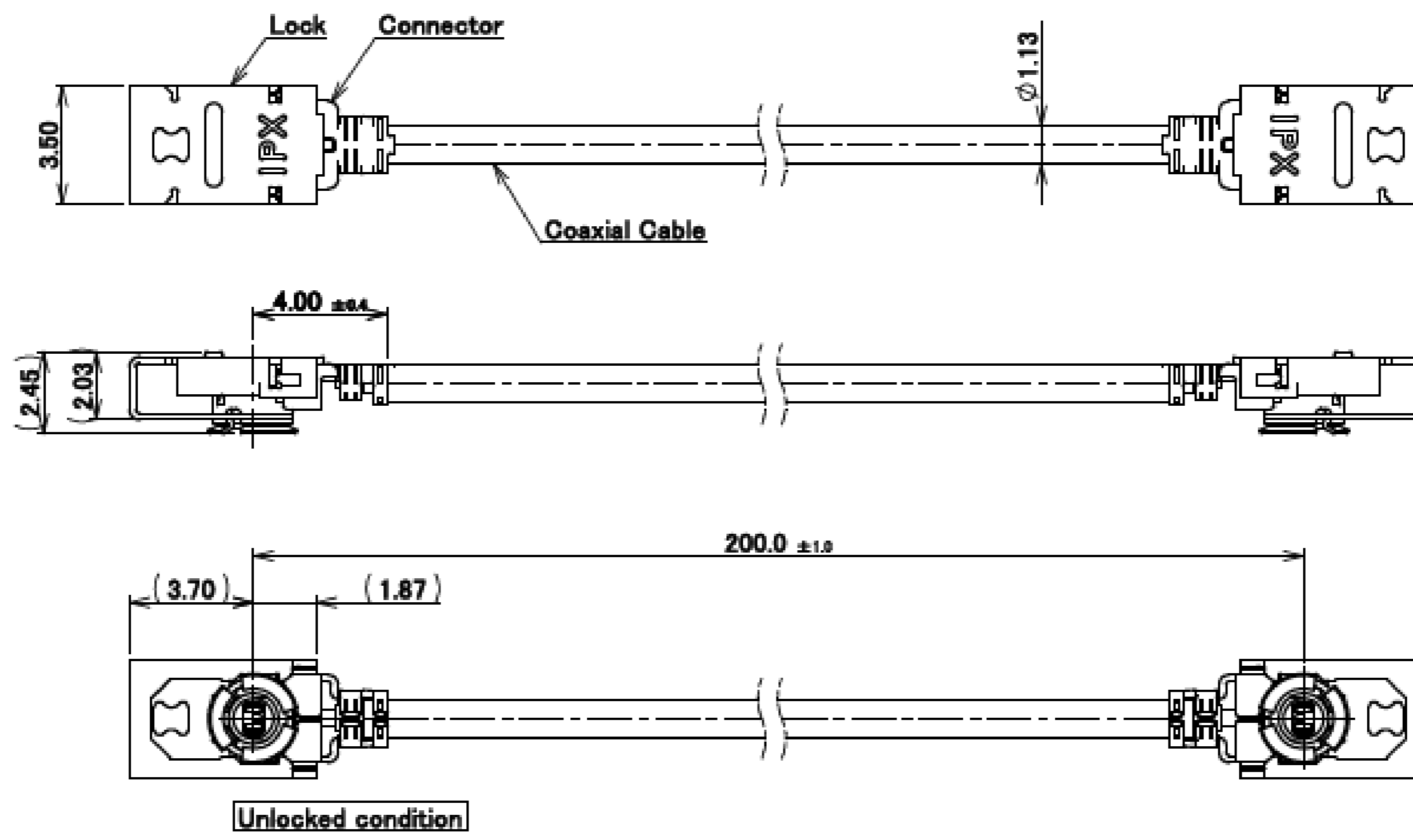
**NOTES**

1. Constructions
  - (1) Connector : MHF I Plug, Ni-TOP
  - (2) Coaxial cable : AWG#36  $\Phi 0.81$
  - (3) Lock part
2. Orientation of connector :  $0^\circ \pm 45^\circ$
3. Packing : Bag
4. This product is RoHS compliant.
5. Cable crimp strength : 10N MIN.
6. Permissible load of cable at mating.



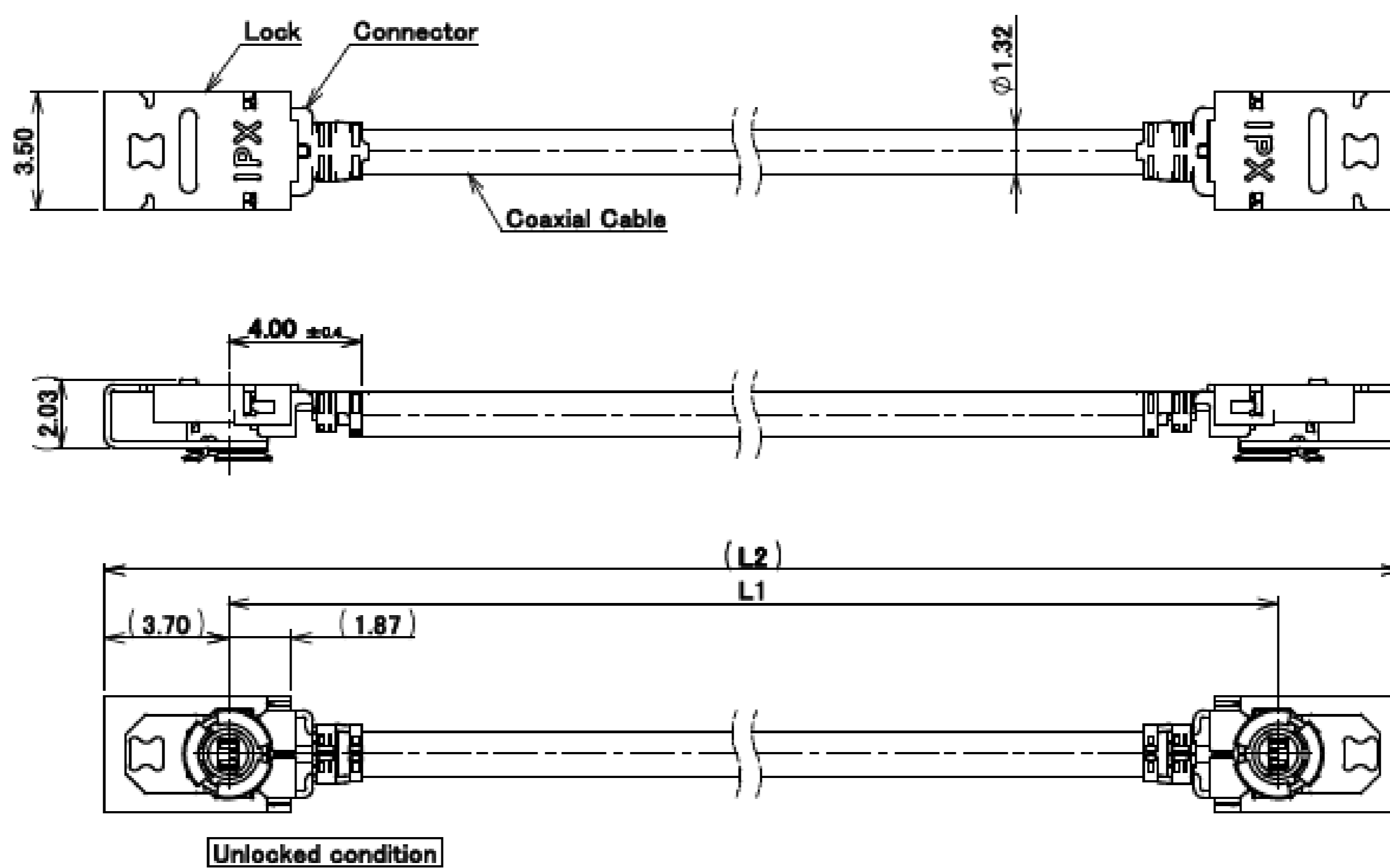
7. To handle lock parts  
You must read and follow the instruction manual below.  
I-PEX instruction manual No. HIM-17020

**Cable :  $\Phi 1.13$  mm**



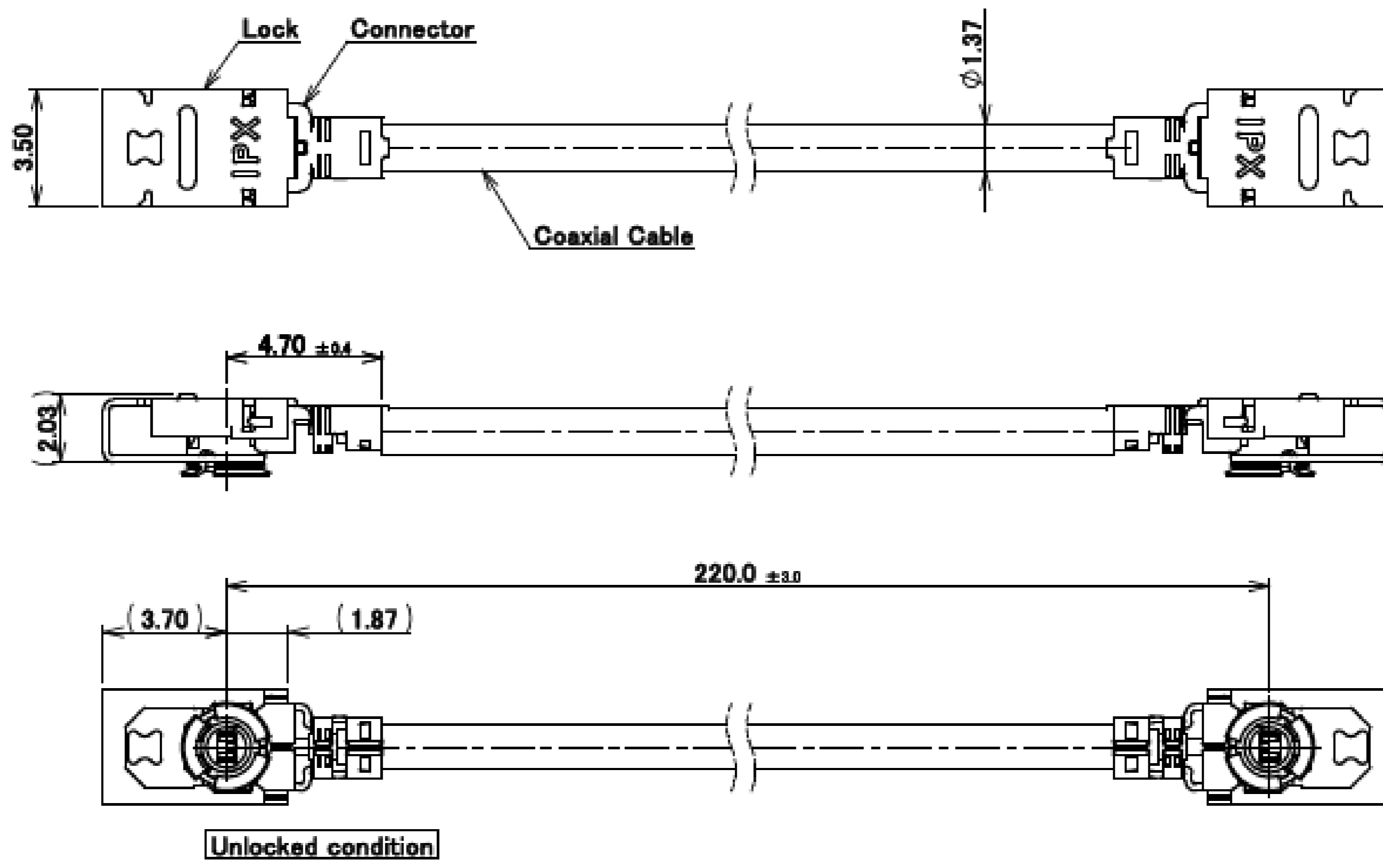
Rev.0

**Cable :  $\Phi 1.32$  mm**



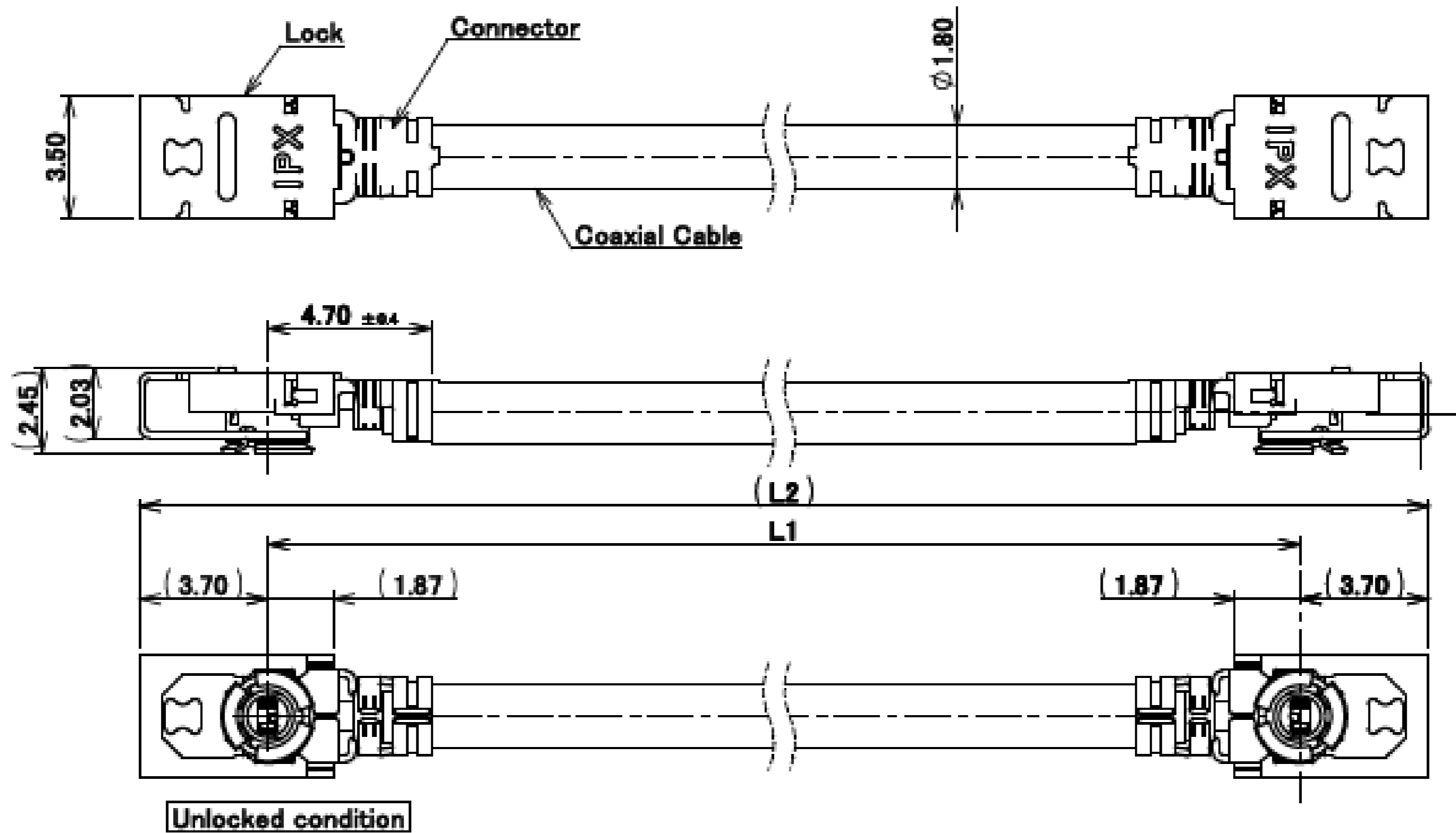
Rev.0

**Cable :  $\Phi 1.37$  mm**



Rev.0

**Cable :  $\Phi 1.80$  mm**



Rev.0

Board to Board



High-Density



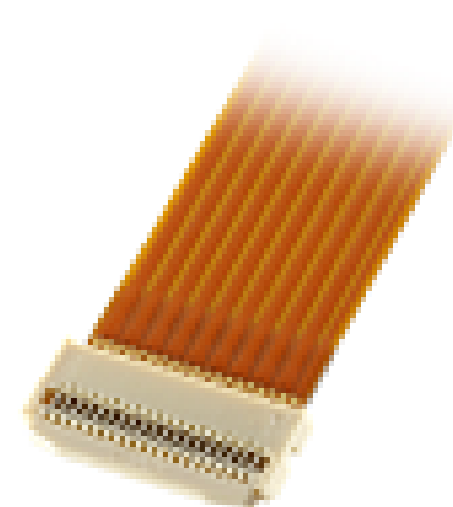
Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Effector



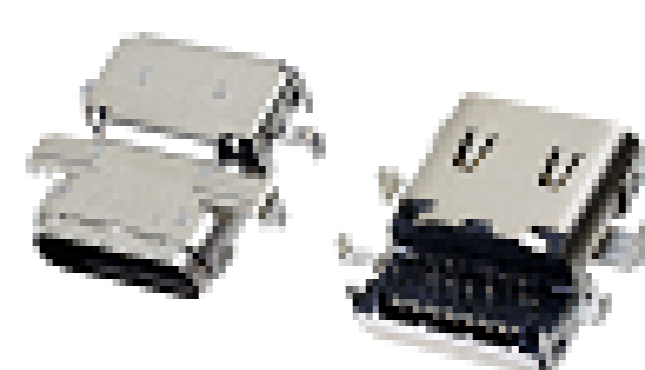
Power



High-Power



I/O (Input/Output)



Quick charge



Inquiry



Custom Connectors Available



I-PEX, MHF, CABLINE, NOVASTACK, EVAFLEX, MINIFLEX, ISH, IARPB, IASLP, ESTORQ, ISFIT, i-Fit and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

[www.i-pex.com](http://www.i-pex.com)



I-PEX

© I-PEX Inc. 2022  
All rights reserved.