# CABLINE<sup>®</sup>- UY

저배(높이 = 0.82 mm Max.),고속 전송 대응(32Gbps/lane), 협피치(0.35 mm Pitch), Right Angle형 Vertical 방향 결합 타입, 세선 동축 케이블 커넥터

<b>Product Spec</b>	ifications:		Applicable Cable Size:				
Mating	type	Right angle vertical	Maximum O.D. (mm)	0.35			
Board Pitc	h (mm)	0.35	Micro-Coaxial	45 ohm: #40 or smaller			
Wiping Len	gth (mm)	0.1	for Signal (AWG)	50 ohm: #42 or smaller			
	Height	0.82 Max	Twinax (AWG)	-			
Mated size (mm)	Width	Formula: 2.15 + (0.35 * ?p)	Discrete (AWG)	#36 or smaller			
(11111)	Depth	3.10	Applicable Standards (Reference Only):				
Din Counts	Range	Up to 25p	32 Gbps/ Lane, USB4 Gen4 (40 Gbps/ Lane PAM3)				
Pin Counts	Available 5, 10p		USB4 Gen3/ Thunderbolt 4 (20 Gbps/lane)				

\*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁 드립니다.

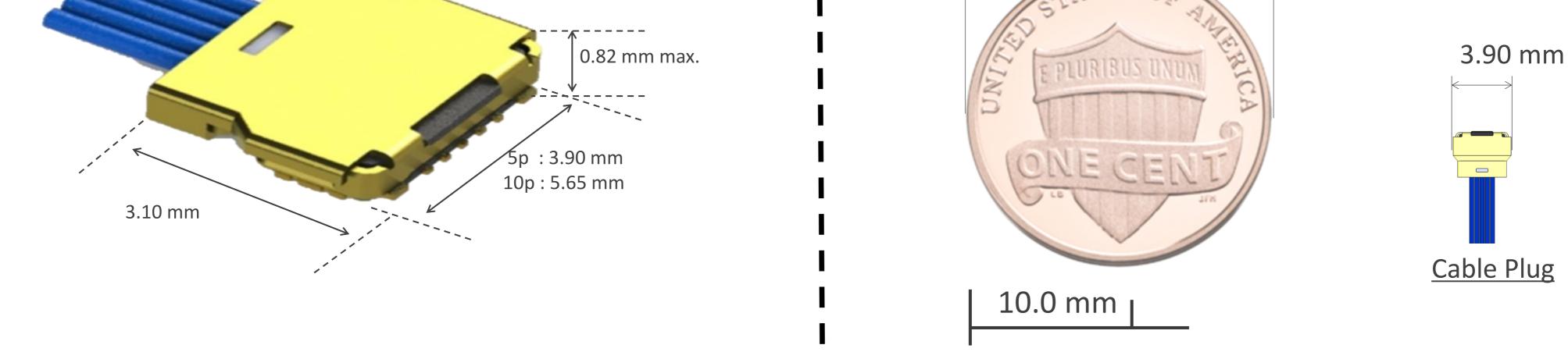
## > 소형 저배 사이즈로 협소한 공간에 최적

커넥터 결합 상태의 Size

One-cent동전과 5p Plug의 Size 비교 이미지

19.05 mm





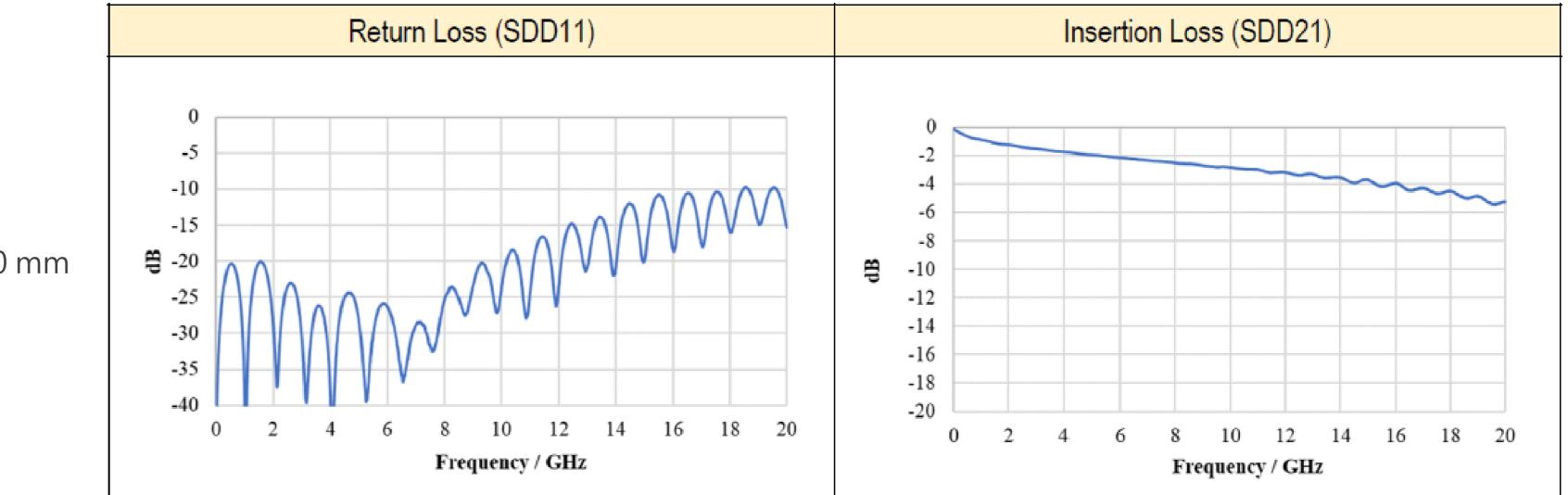
## > 32Gbps/Lane Application에 이상적인 고속 데이터 전송

Measurement results

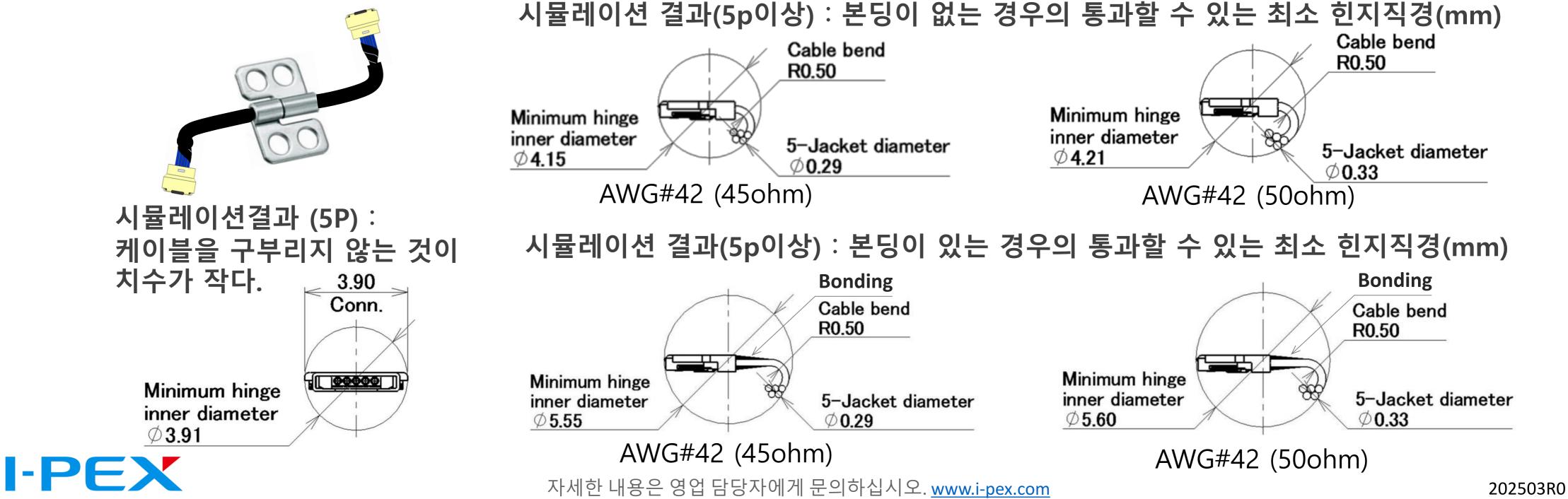
Connector: CABLINE-UY 10P

Cable: Micro-coaxial cable AWG #42, 50ohm , Length : 100 mm

Pin Assignment: GSSGSSG

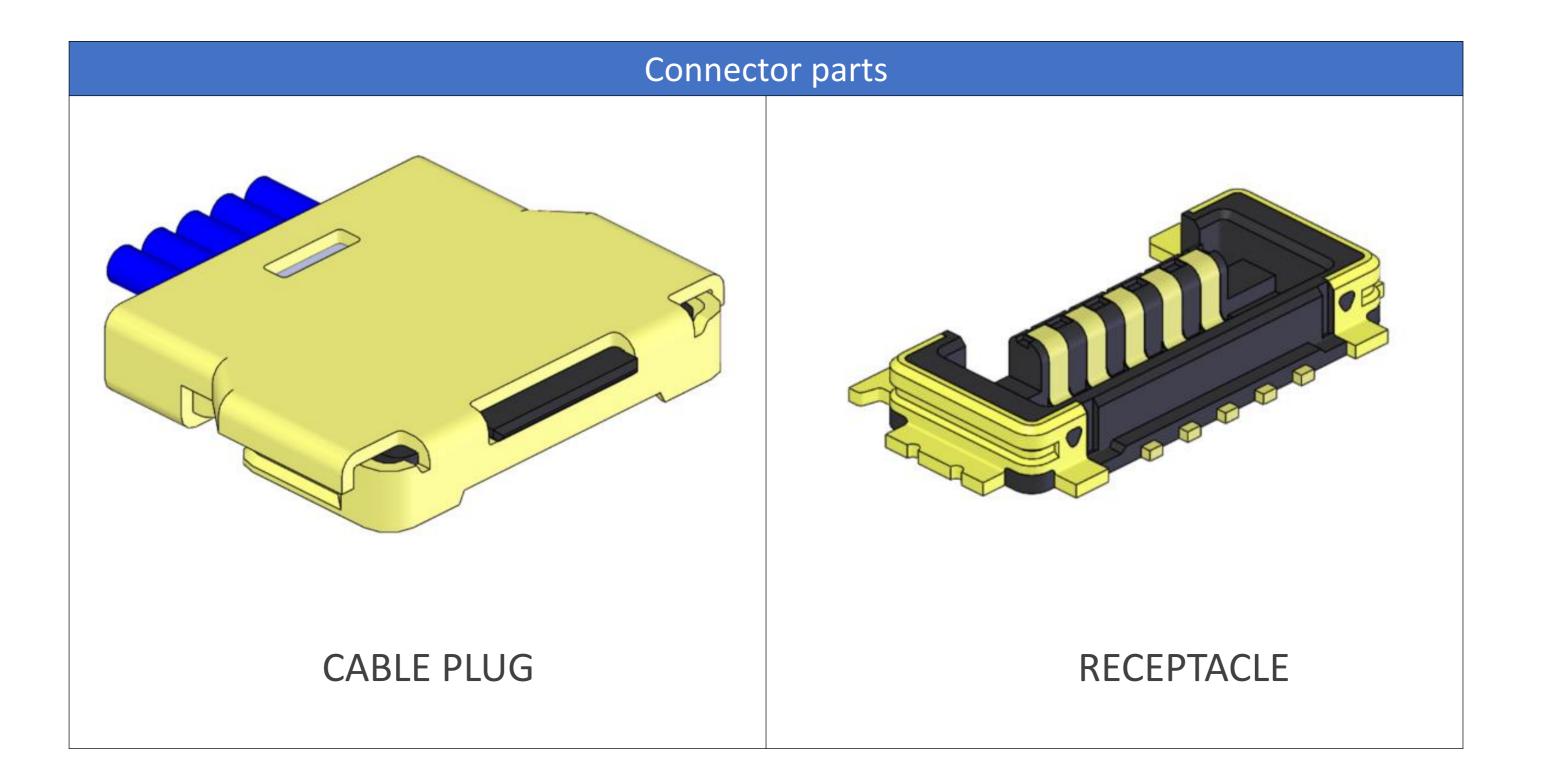


### 작은구경의 힌지를 통과시킬 수 있도록 한 슬림한 디자인 CABLINE® 커넥터의 힌지부를 통과시키는 시뮬레이션



# **Component Parts Details**

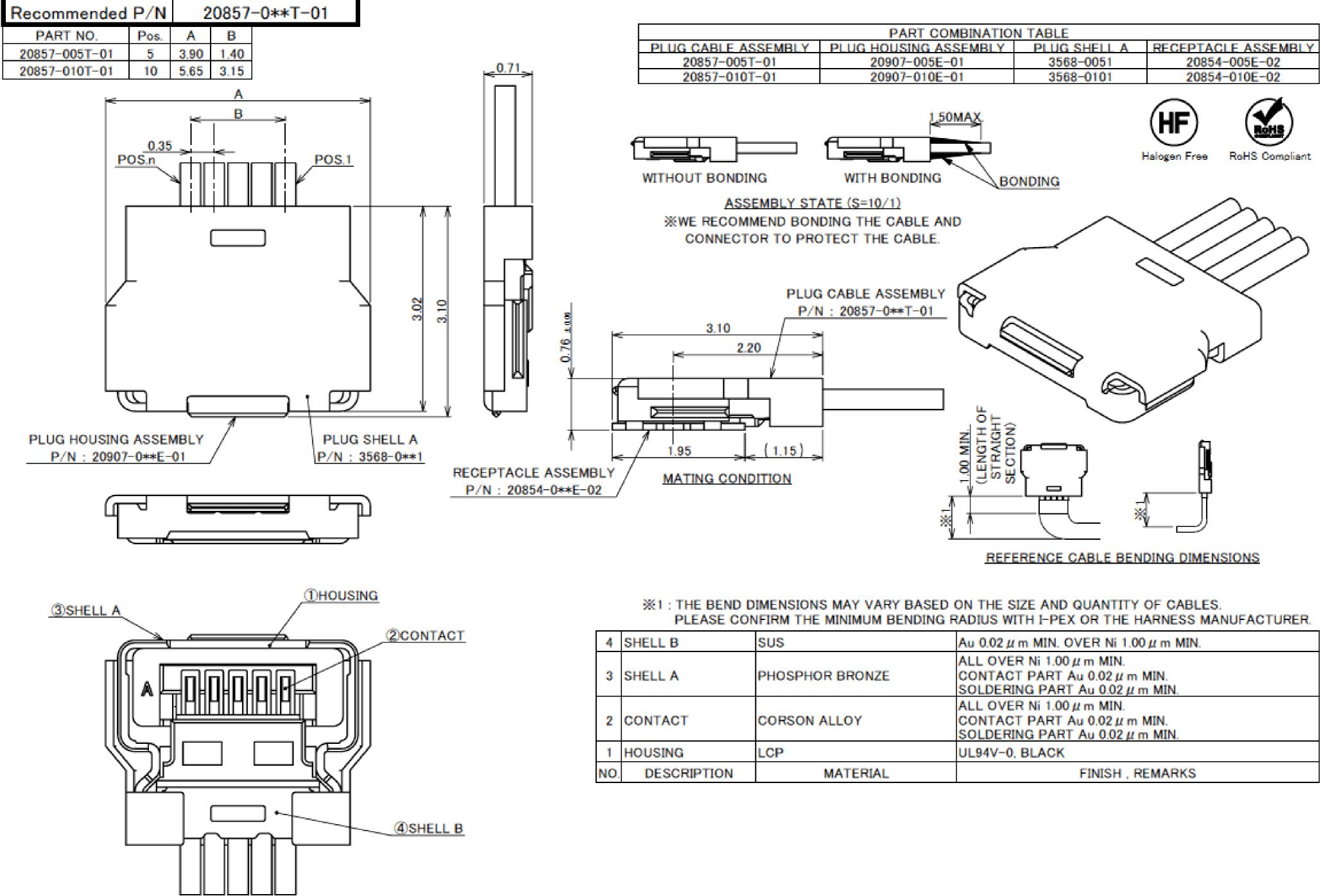
#### **Component Parts**





Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

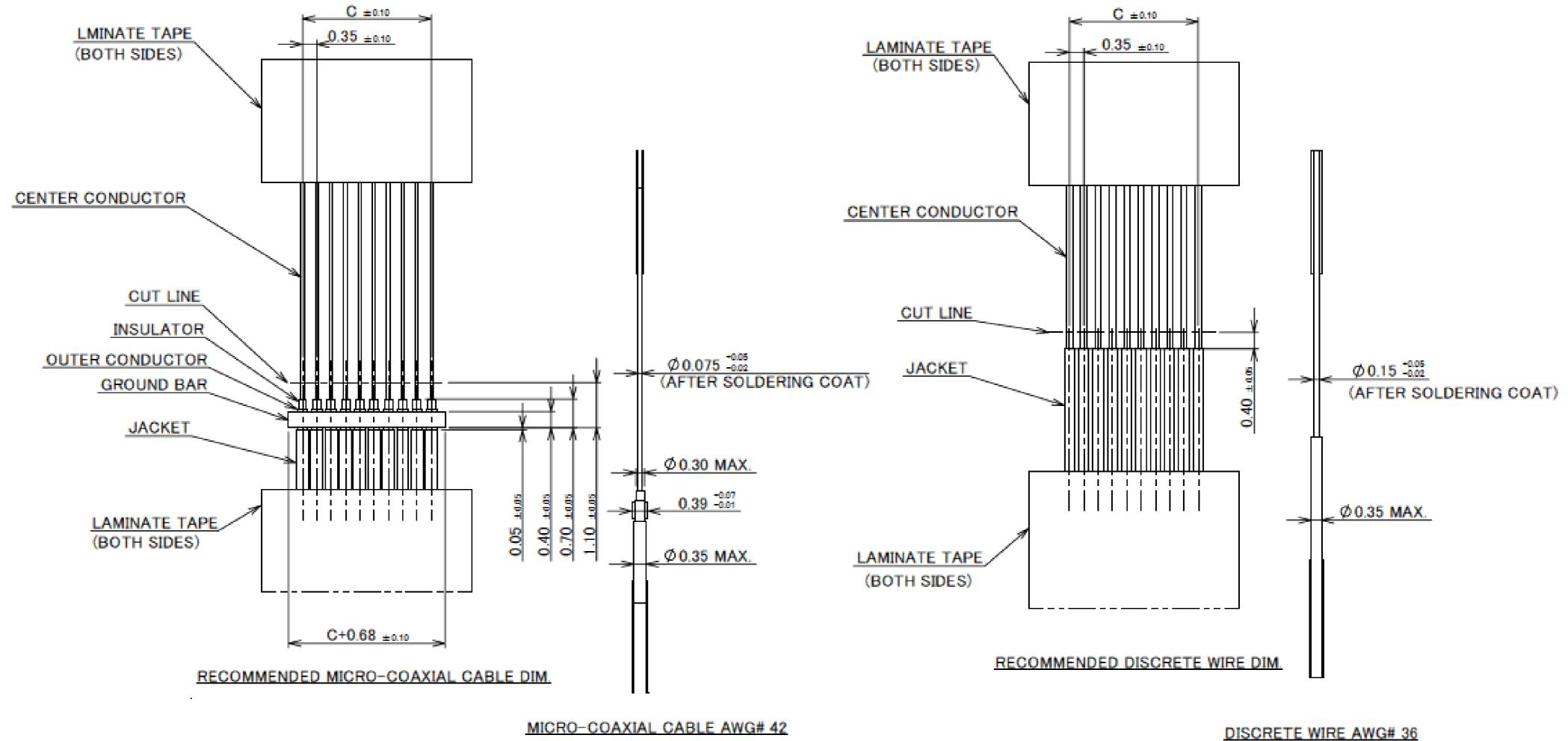
#### **Plug for Cable Assembly**

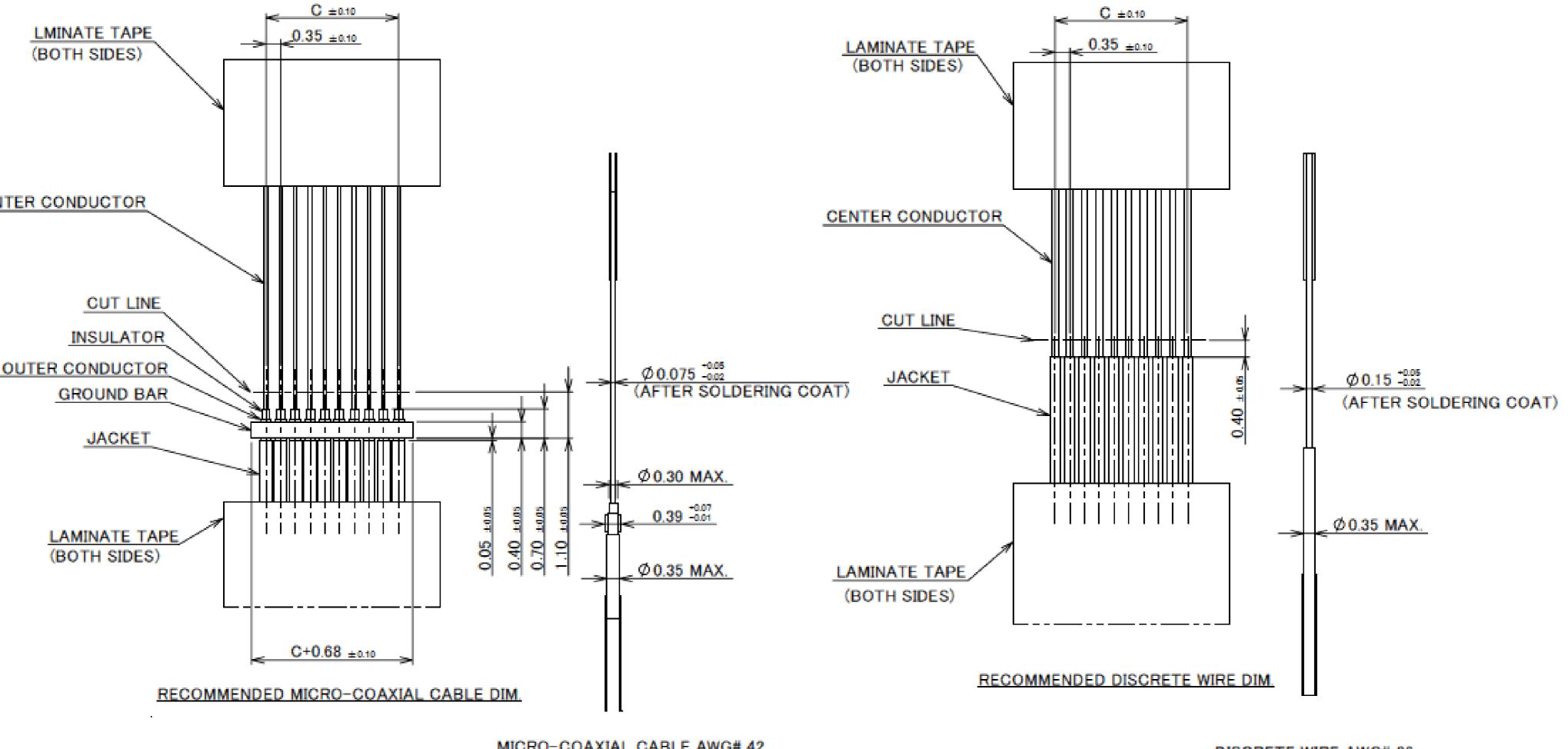


4	SHELL B	SUS	Au 0.02 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
3	SHELL A	PHOSPHOR BRONZE	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART Au 0.02 $\mu$ m MIN. SOLDERING PART Au 0.02 $\mu$ m MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART Au 0.02 $\mu$ m MIN. SOLDERING PART Au 0.02 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.6

PART NO.	Pos.	С
20857-005T-01	5	1.40
20857-010T-01	10	3.15





Rev.6

I-PEX

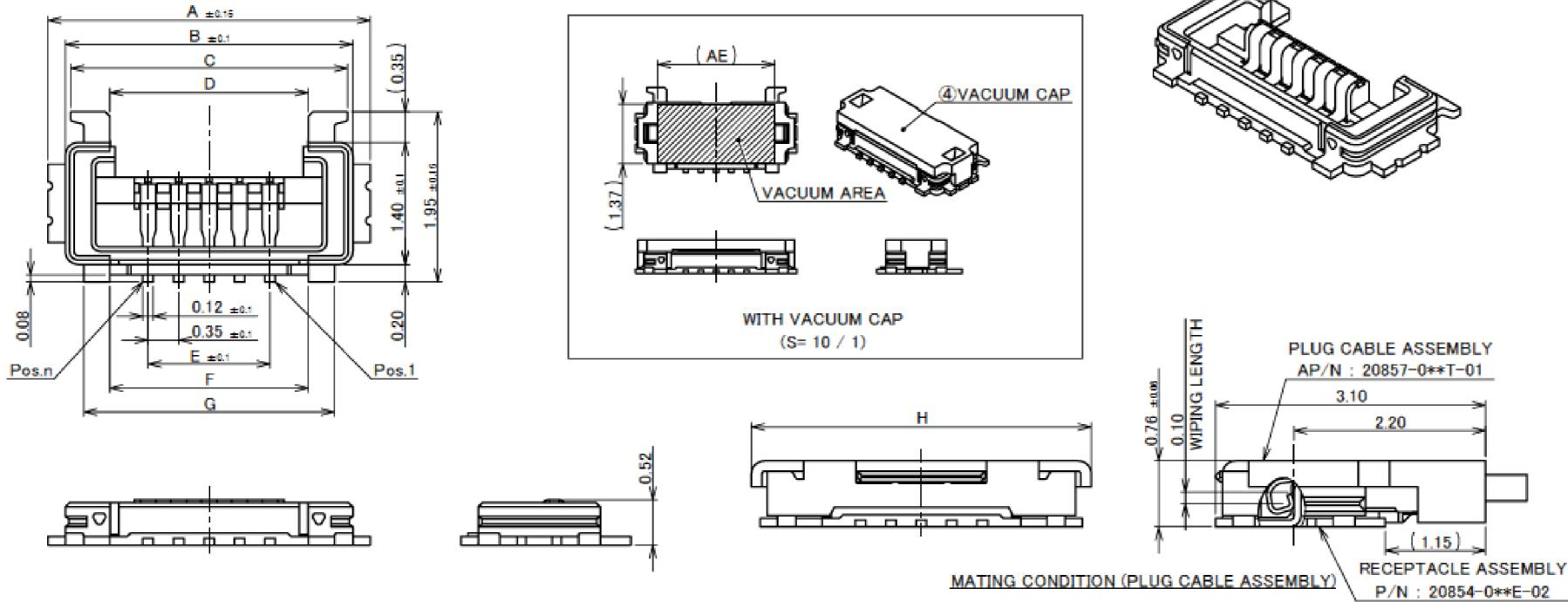
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

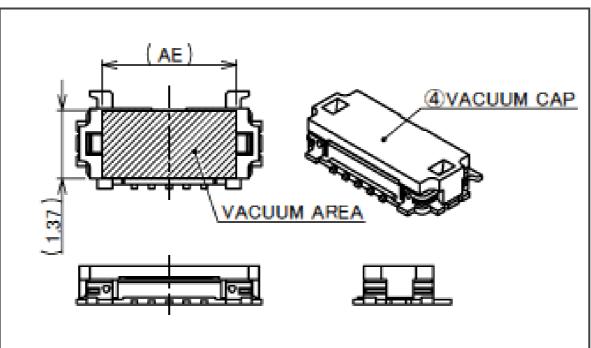
#### Plug for Cable Assembly

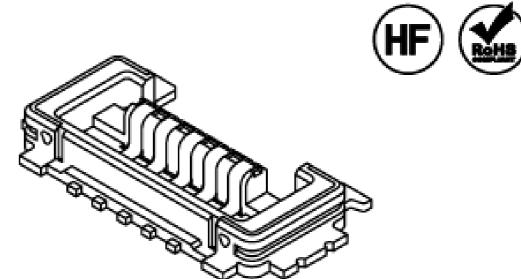
ITEMS	SPECIFICATION						
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 DISCRETE WIRE : AWG# 36						
RATING VOLTAGE	60V AC (PER CONTACT PIN) WTHIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.						
RATING AMPERAGE (FOR CONTACT)	0.35 AC/DC[AWG# 42] 0.5 AC/DC[AWG# 36]						
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)						
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)						
CONTACT RESISTANCE	INITIAL : 700mohm MAX.(AWG# 42) / AFTER TEST : ⊿R 40mohm MAX. 275mohm MAX.(AWG# 36)						
GROUND SHELL RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : ZR 40mohm MAX.						
INSULATION RESISTANCE	INITIAL : 500Mohm MIN. / AFTER TEST : 100Mohm MIN.						
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min						
DURABILITY	30 CYCLES						
MATING FORCE (INITIAL / AFTER TEST)	5P : INITIAL: 30N MAX. / AFTER TEST: 30N MAX. 10P : INITIAL: 30N MAX. / AFTER TEST: 30N MAX.						
UNMATING FORCE (INITIAL / AFTER TEST)	5P : INITIAL: 5N MIN. / AFTER TEST: 3N MIN. 10P : INITIAL: 5N MIN. / AFTER TEST: 3N MIN.						
CABLE RETENTION FORCE	5Pin : 2.45N MIN. 10Pin : 4.9N MIN.						
PRODUCT SPECIFICATION	PRS-2634						
TEST REPORT	TR-19084						
INSTRUCTION MANUAL	HIM-18037						
ASSEMBLY MANUAL	ASM-18002						
APPEARANCE CRITERIA No.	QLS-A***						

#### **Receptacle Assembly**

Recommended	2	0854	-0**	E-02							
PART NO.	Pos.	Α	В	С	D	E	F	G	Η	J	AE
20854-005E-02	5	3.70	3.30	3,18	2.28	1.40	2.28	2.88	3.90	2.90	2.70
20854-010E-02	10	5.45	5.05	4.93	4.03	3,15	4.03	4.63	5.65	4.65	4.45

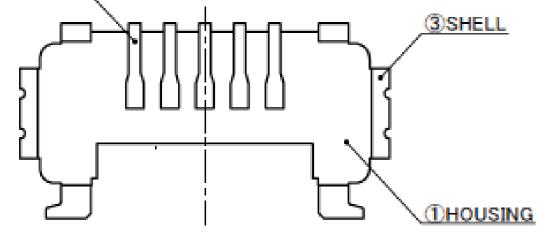






Rev.6





4	VACUUM CAP	LCP	UL94V-0, BLACK
3	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART: Au 0.01 $\mu$ m MIN. SOLDERING PART: Au 0.01 $\mu$ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART: Au 0.05 $\mu$ m MIN. SOLDERING PART: Au 0.03 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

NOTE. 1. COPLANARITY: 0.08mm MAX.

#### I-PEX

Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Rev.6

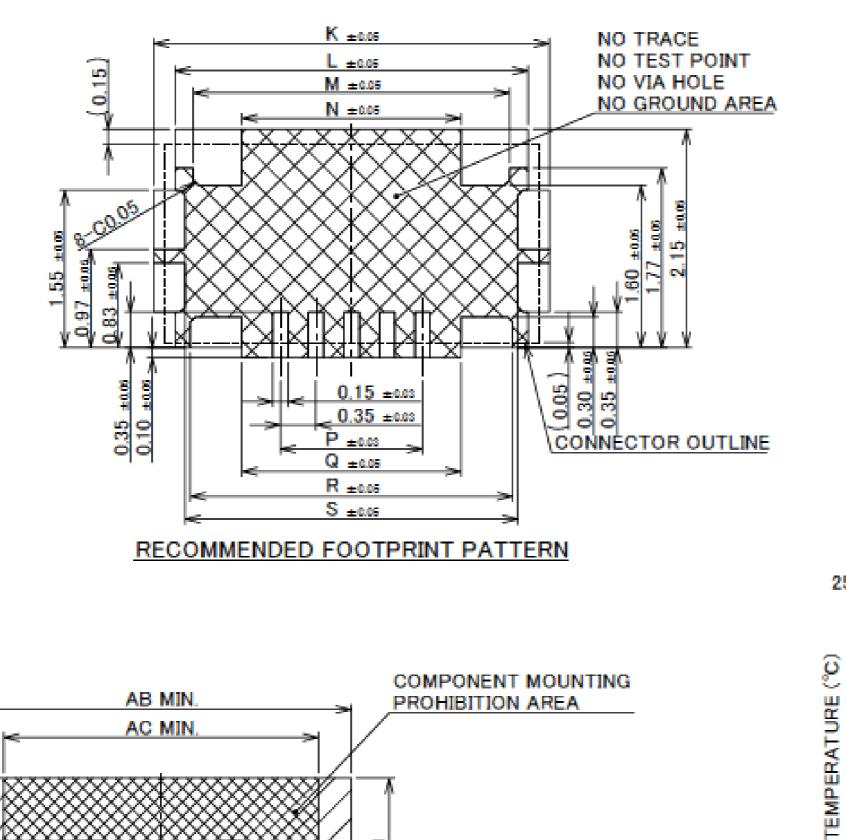
#### **Receptacle Assembly**

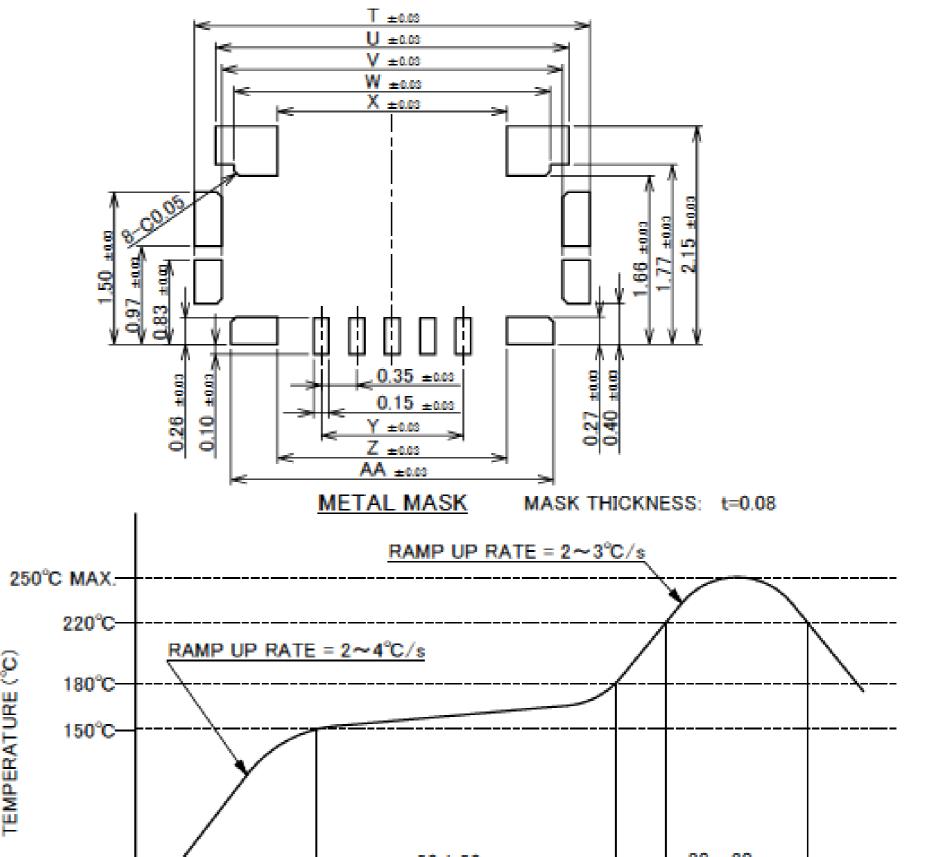
.1.25 MIN.

ST X

പ

PART NO.	Pos.	К	L	м	N	Р	Q	R	S	Т	U	V	W	Х	Y	Ζ	AA	AB	AC
20854-005E-02	5	3.90	3.48	3.12	2.16	1.40	2.16	3.18	3.28	3.90	3.48	3.36	3.12	2.26	1.40	2.26	3.18	7.50	6.20
20854-010E-02	10	5.65	5.23	4.87	3.91	3.15	3.91	4.93	5.03	5.65	5.23	5.11	4.87	4.01	3.15	4.01	4.93	9.25	7.95







Rev.6

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20857-0**T-01 (PLUG CABLE ASSEMBLY)
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.35 AC/DC [AWG#42] PER CONTACT PIN 0.50 AC/DC [AWG#36] PER CONTACT PIN
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 700mohm MAX.(AWG#42) 275mohm MAX.(AWG#36) / AFTER TEST : ZR 40mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : ZR 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 500Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	5P : INITIAL: 30N MAX. / AFTER TEST: 30N MAX. 10P : INITIAL: 30N MAX. / AFTER TEST: 30N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	5P : INITIAL: 5N MIN. / AFTER TEST: 3N MIN. 10P : INITIAL: 5N MIN. / AFTER TEST: 3N MIN.
CABLE RETENTION FORCE	5P : 2.45N MIN. 10P : 4.90N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-2634
TEST REPORT	TR-19084
PACKING STANDARD	PST-18040
INSTRUCTION MANUAL	HIM-18037
APPEARANCE CRITERIA No.	QLS-A***





I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK 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



# 

#### © I-PEX Inc. 2025 All rights reserved