

CABLINE®- UY

低背（高さ = 0.82 mm Max.）、高速伝送対応（32Gbps/lane）、狭ピッチ（0.35 mmピッチ）、ライトアングル縦嵌合タイプ、細線同軸ケーブルコネクタ

Product Specifications:

Mating type		Right angle vertical
Board Pitch (mm)		0.35
Wiping Length (mm)		0.1
Mated size (mm)	Height	0.82 Max
	Width	Formula: 2.15 + (0.35 * ?p)
	Depth	3.10
Pin Counts	Range	Up to 25p
	Available	5, 10p

Applicable Cable Size:

Maximum O.D. (mm)	0.35
Micro-Coaxial for Signal (AWG)	45 ohm: #40 or smaller 50 ohm: #42 or smaller
Twinax (AWG)	-
Discrete (AWG)	#36 or smaller

Applicable Standards (Reference Only):

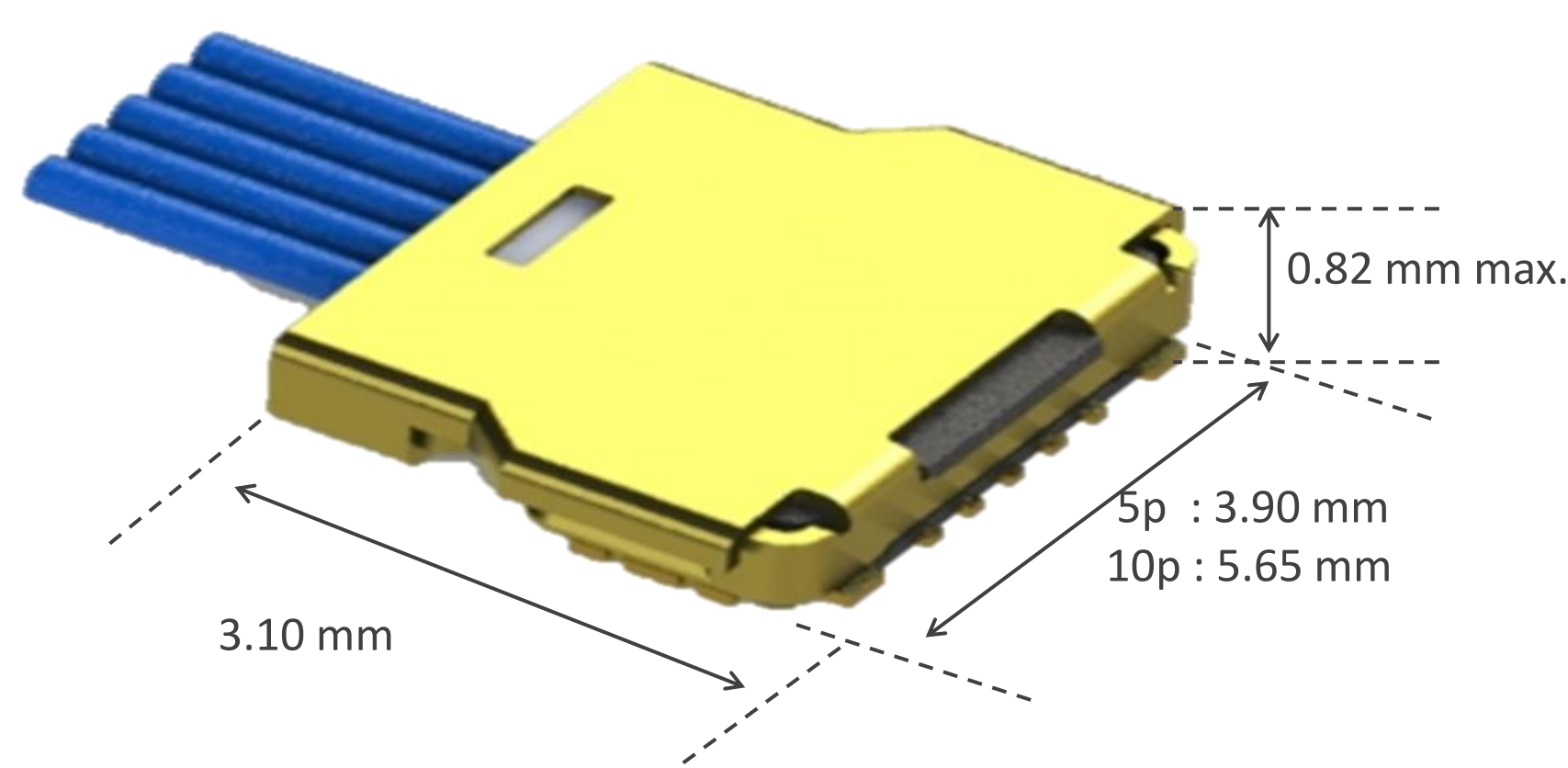
32 Gbps/ Lane, USB4 Gen4 (40 Gbps/ Lane PAM3)
USB4 Gen3/ Thunderbolt 4 (20 Gbps/lane)



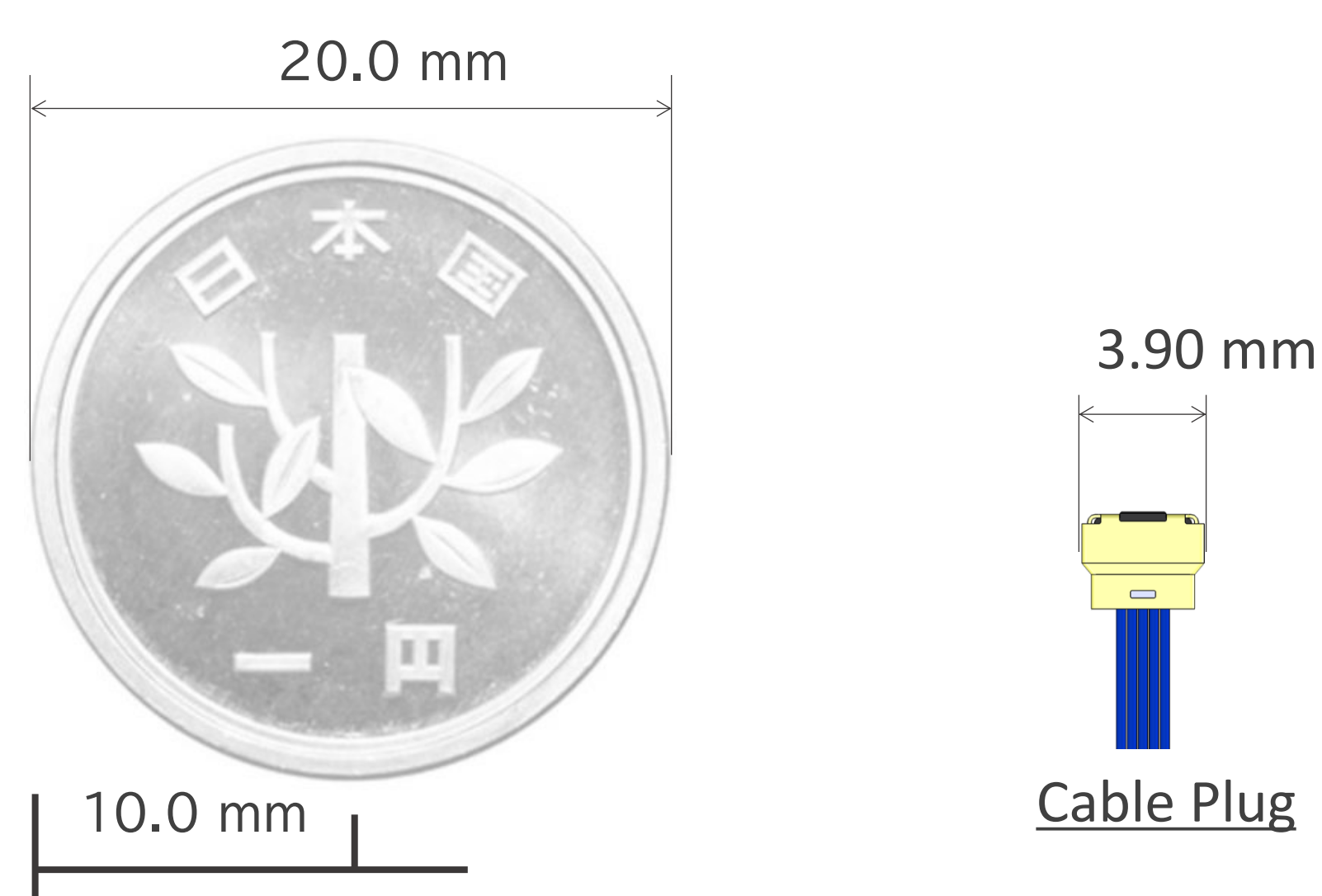
*記載のない極数の対応状況についてはお問い合わせください。

▶ 小型低背で狭小スペースに最適

コネクタ嵌合状態のサイズ



1円硬貨 と 5pプラグのサイズ比較イメージ



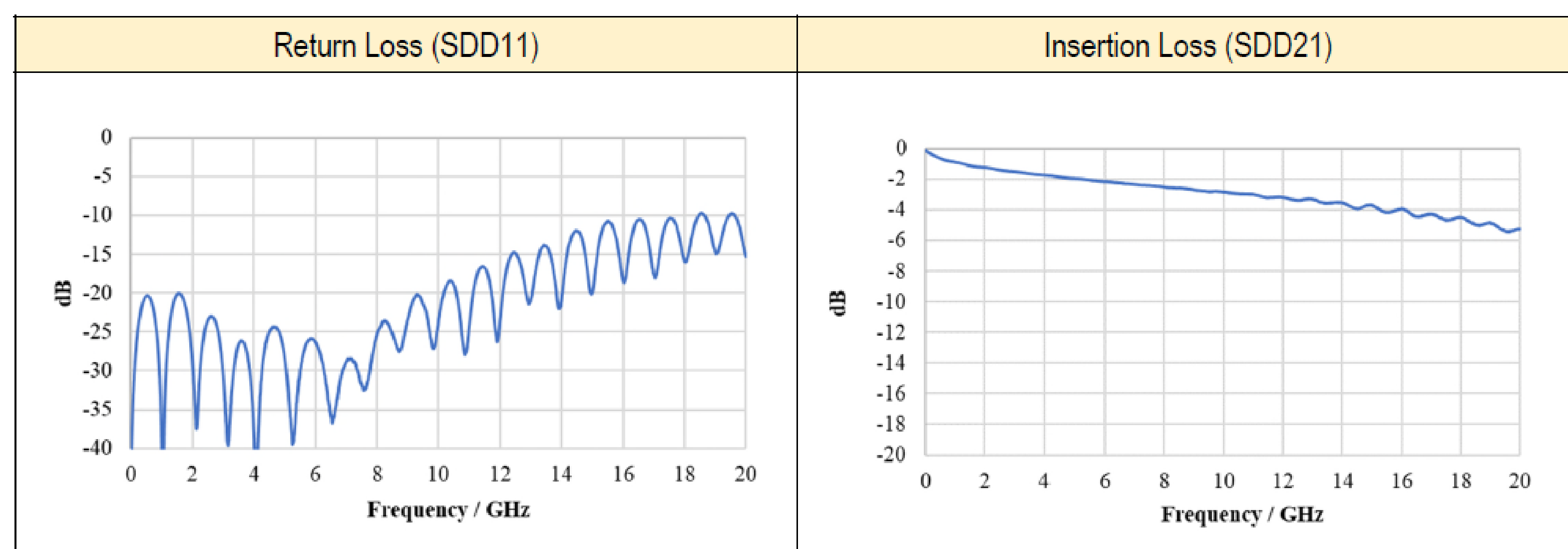
▶ 32Gbps/lane の高速伝送内部接続に最適

Measurement results

Connector: CABLINE-UY 10P

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

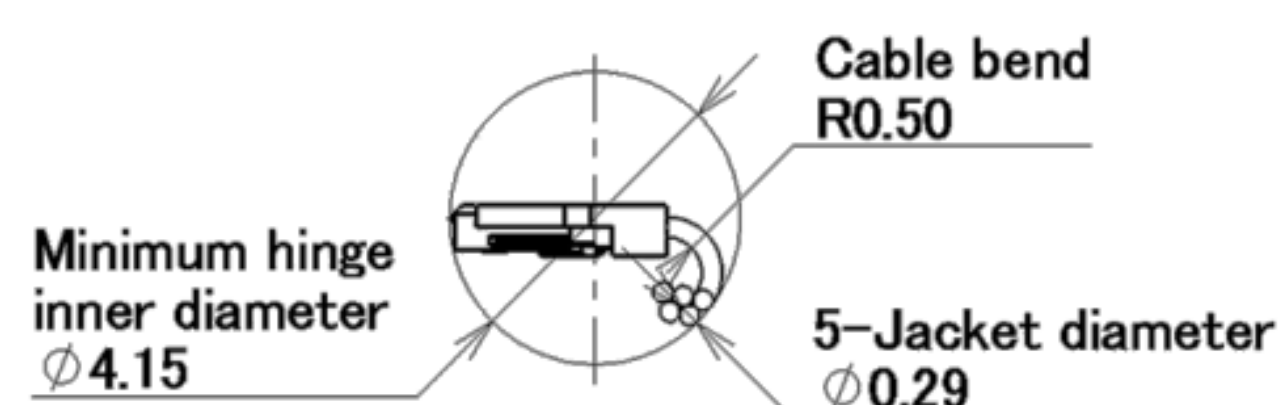
Pin Assignment: GSSGSSG



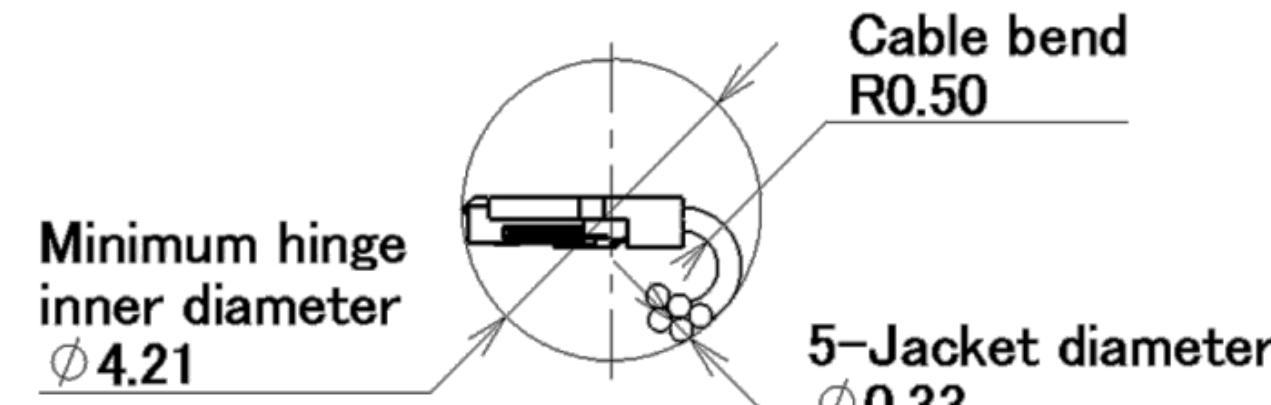
▶ 小径ヒンジを通す事を可能にしたスリムなデザイン

[細線同軸コネクタハーネスによるヒンジ部通過シミュレーション](#)

シミュレーション結果(5P以上): ボンディングが無い場合の通せる最小ヒンジ内径(mm)



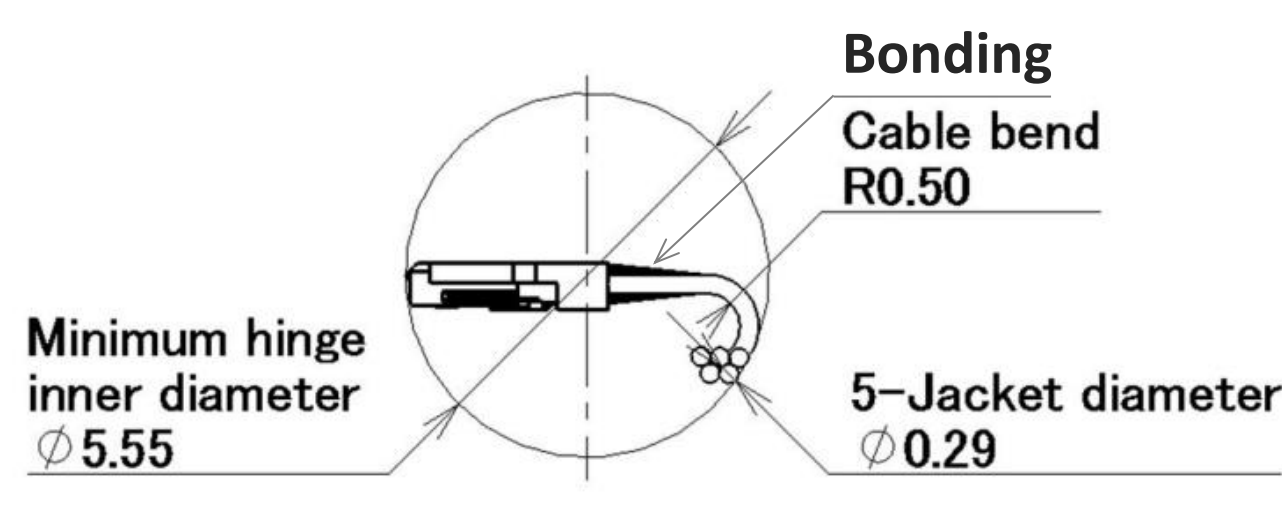
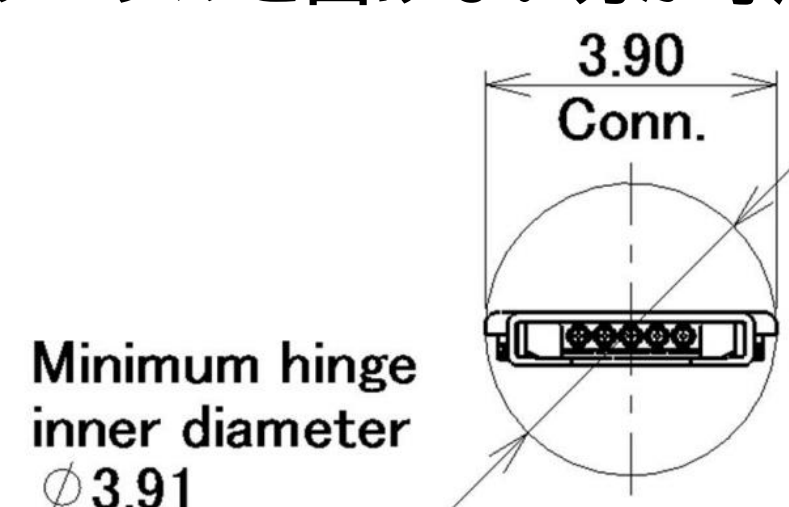
AWG#42 (45ohm)



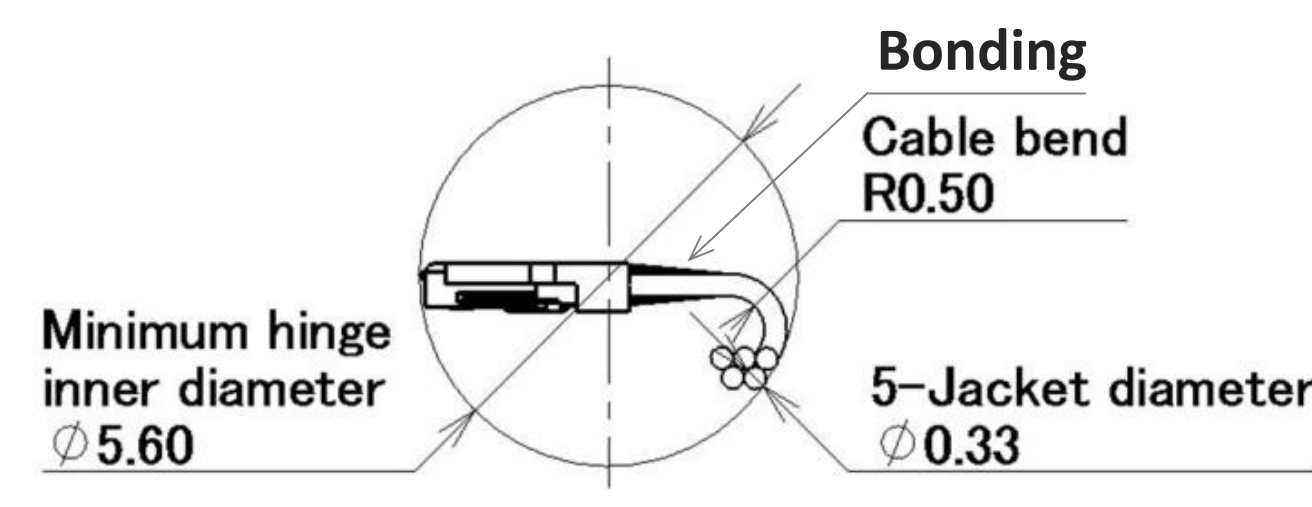
AWG#42 (50ohm)

シミュレーション結果(5P):
ケーブルを曲げない方が寸法が小さい

シミュレーション結果(5P以上): ボンディングがある場合の通せる最小ヒンジ内径(mm)



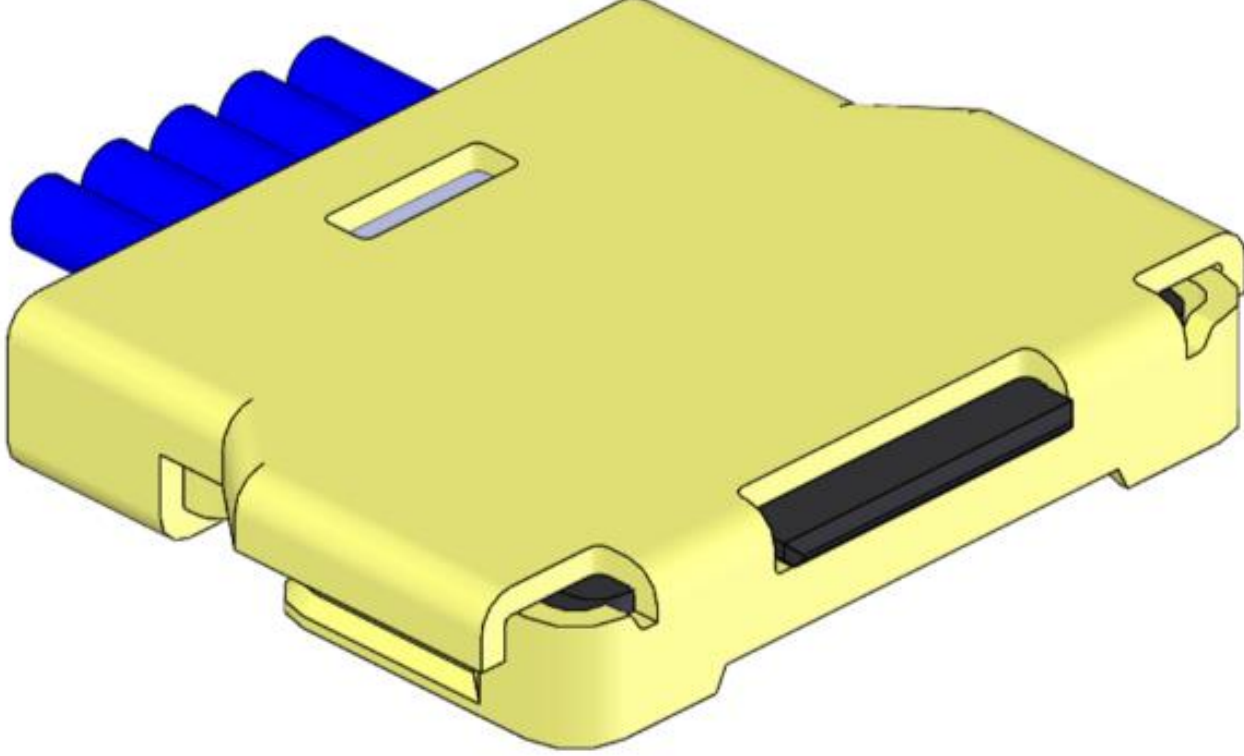
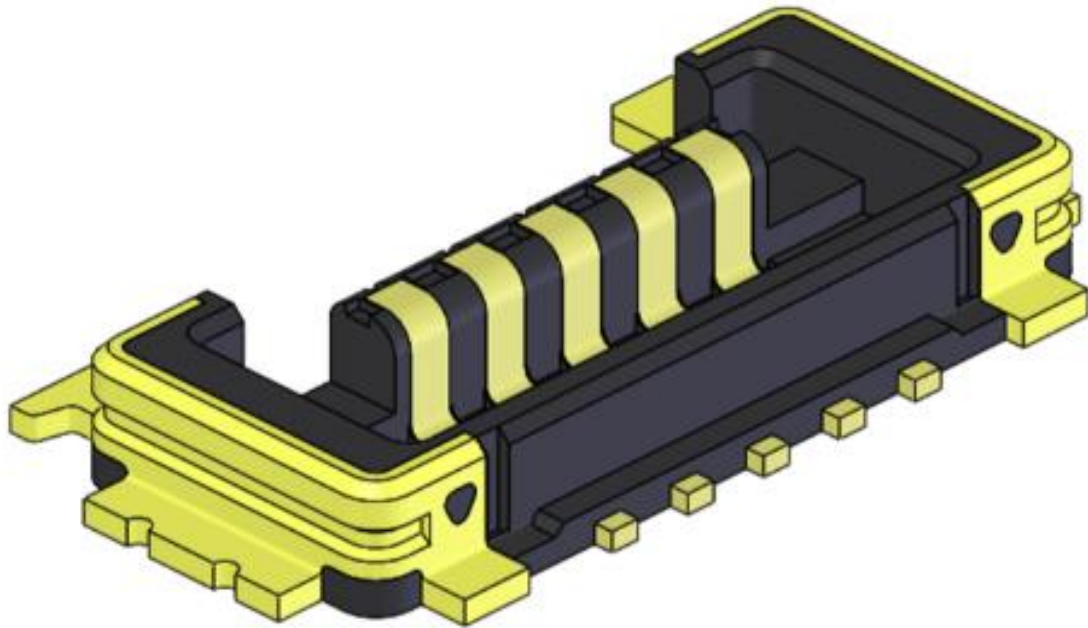
AWG#42 (45ohm)



AWG#42 (50ohm)

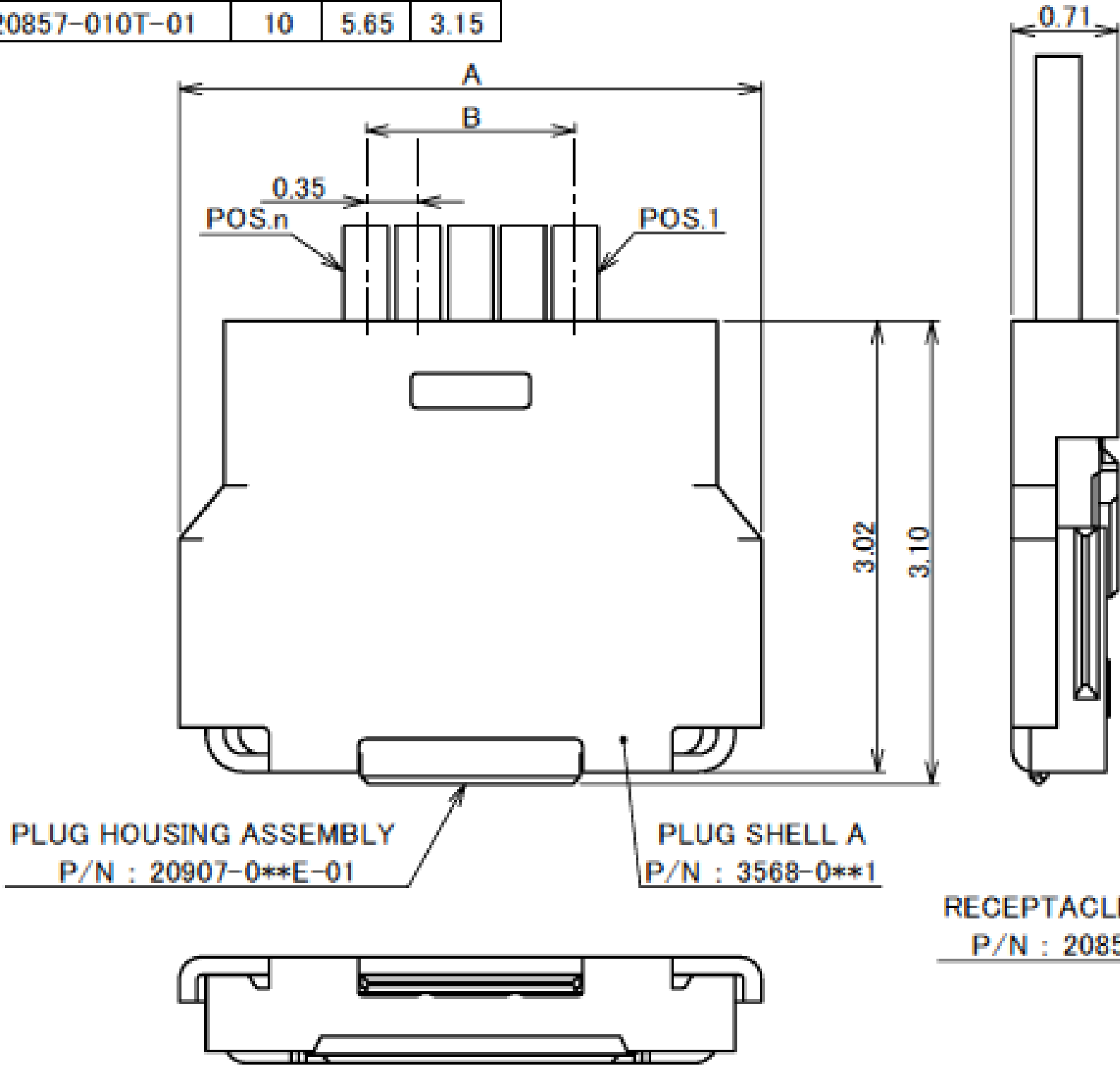
Component Parts Details

Component Parts

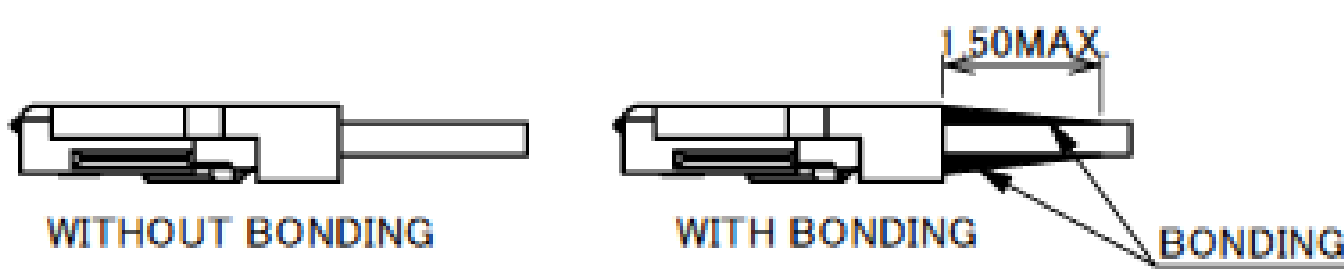
Connector parts	
	
CABLE PLUG	RECEPTACLE

Plug for Cable Assembly

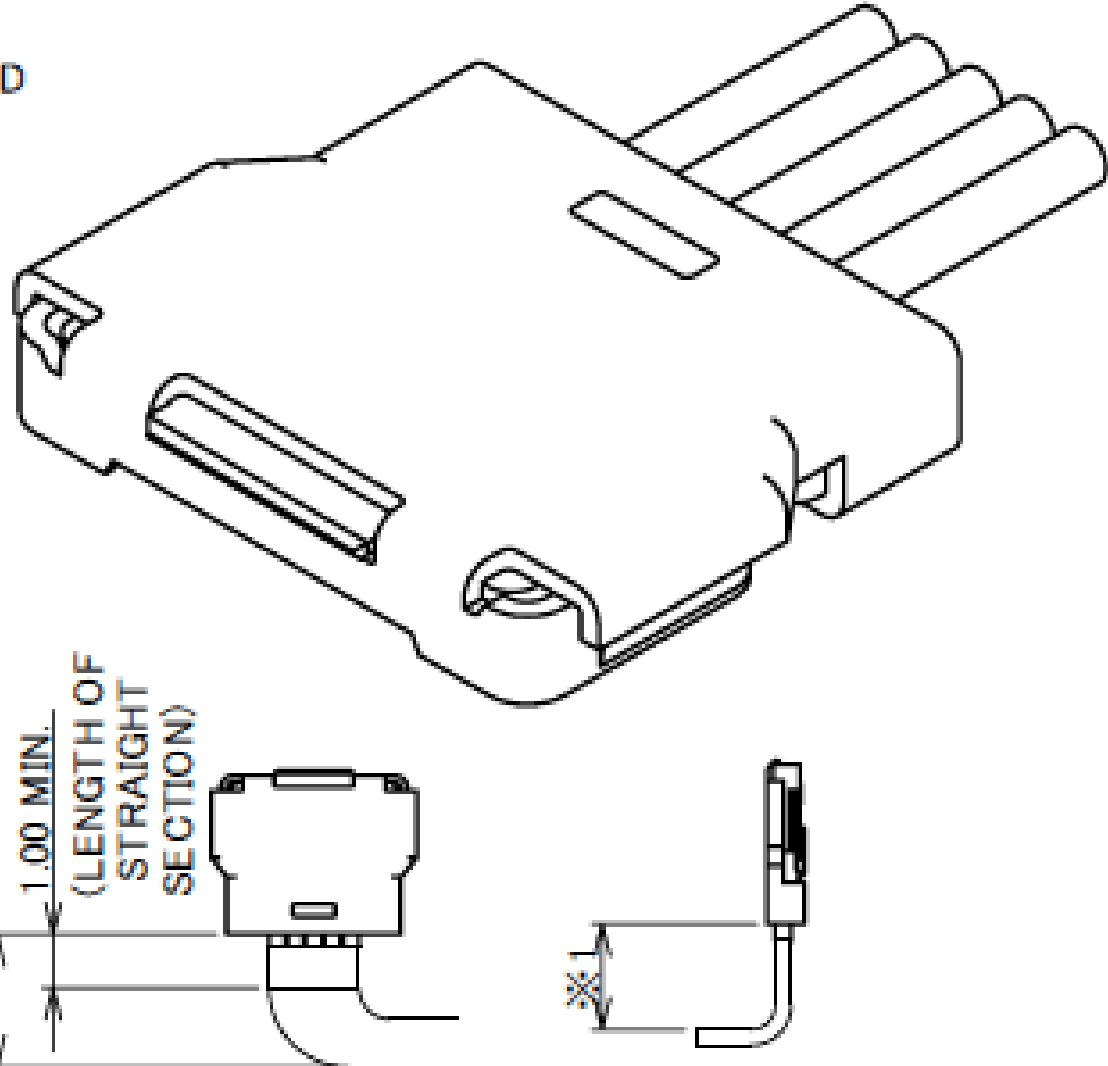
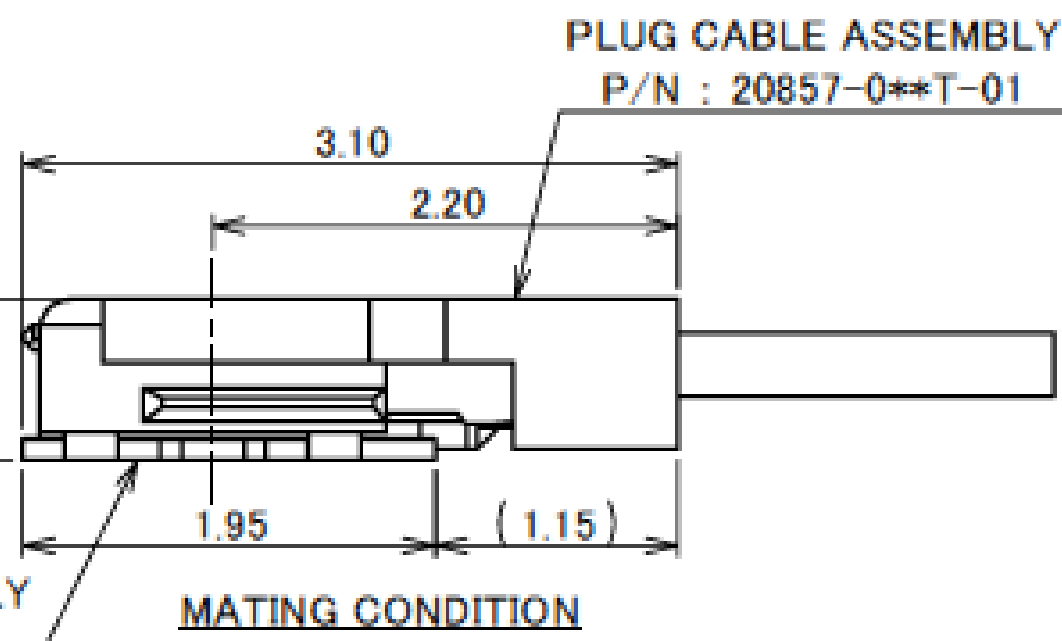
Recommended P/N		20857-0**T-01		
PART NO.	Pos.	A	B	
20857-005T-01	5	3.90	1.40	
20857-010T-01	10	5.65	3.15	



PART COMBINATION TABLE			
PLUG CABLE ASSEMBLY	PLUG HOUSING ASSEMBLY	PLUG SHELL A	RECEPTACLE ASSEMBLY
20857-005T-01	20907-005E-01	3568-0051	20854-005E-02
20857-010T-01	20907-010E-01	3568-0101	20854-010E-02



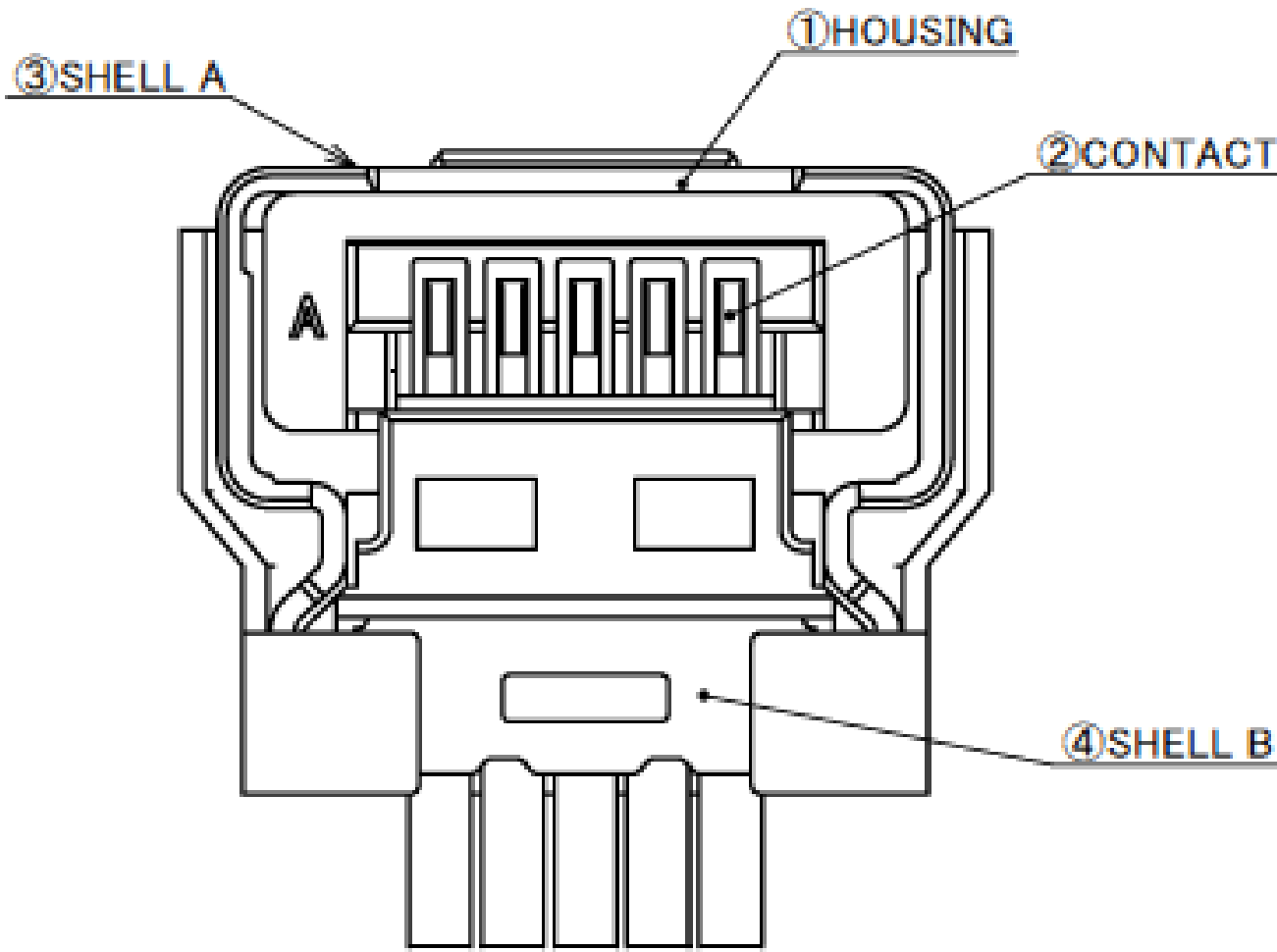
※WE RECOMMEND BONDING THE CABLE AND CONNECTOR TO PROTECT THE CABLE.



REFERENCE CABLE BENDING DIMENSIONS

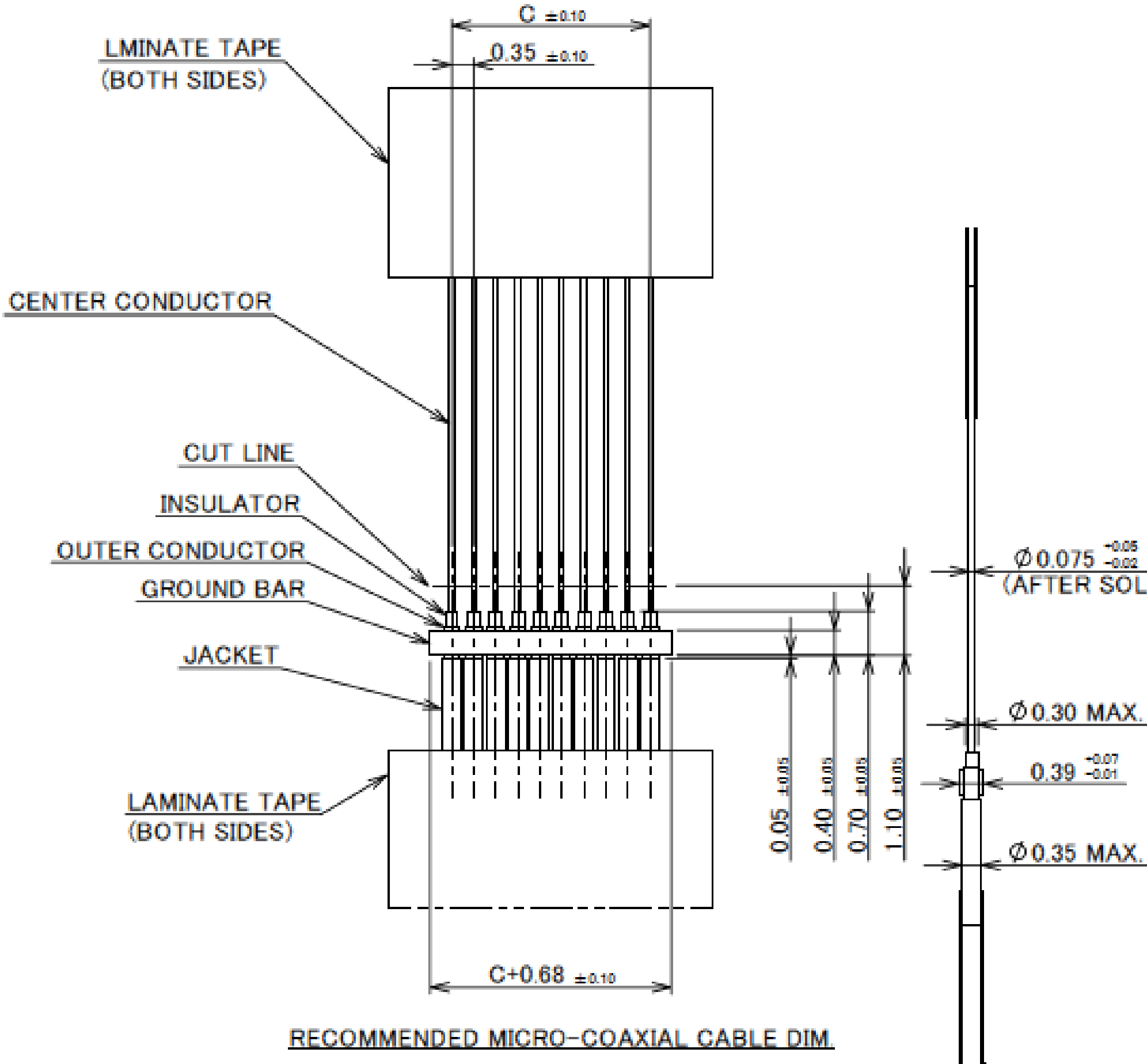
※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

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

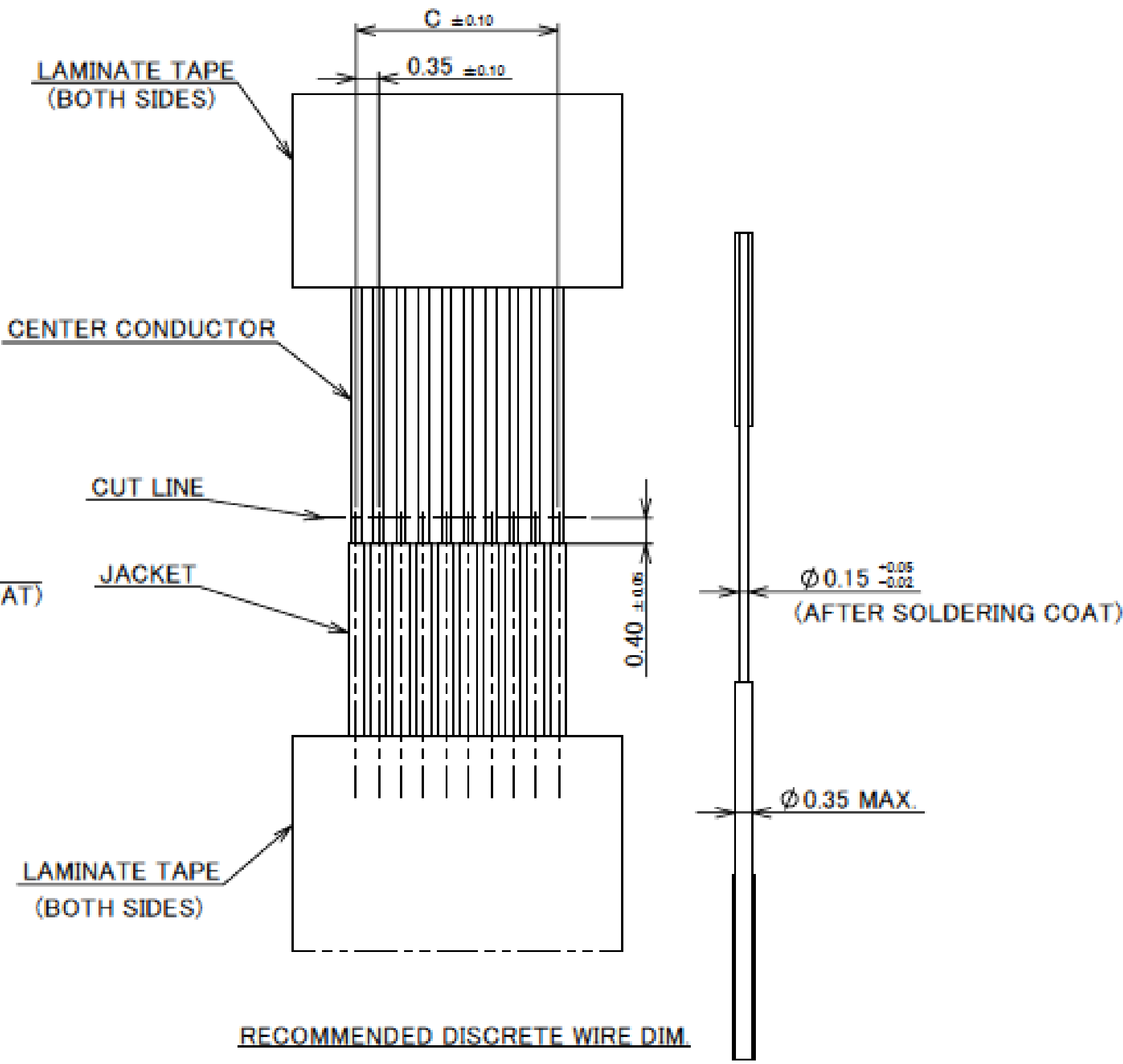


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PART NO.	Pos.	C
20857-005T-01	5	1.40
20857-010T-01	10	3.15



MICRO-COAXIAL CABLE AWG# 42



DISCRETE WIRE AWG# 36

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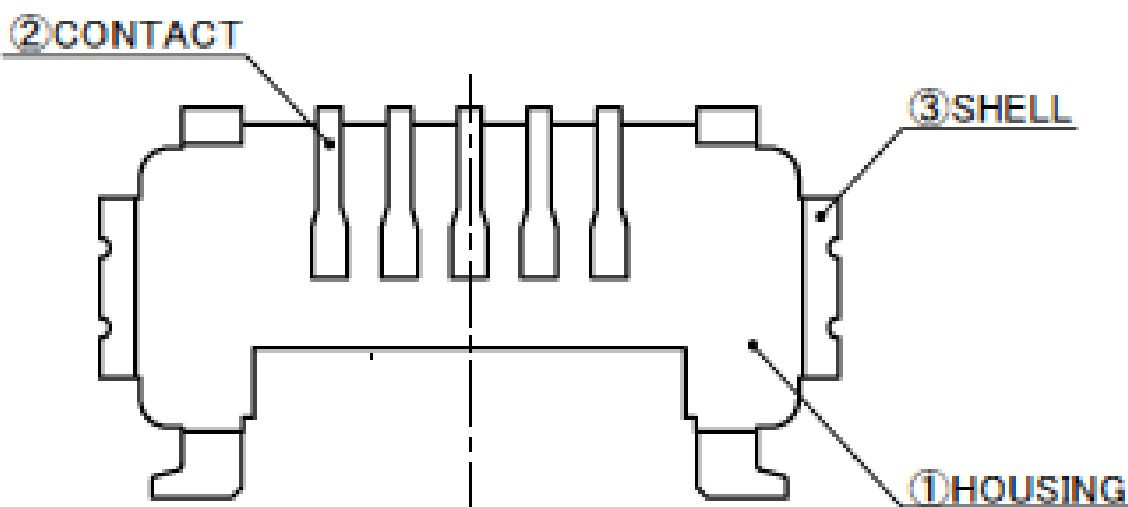
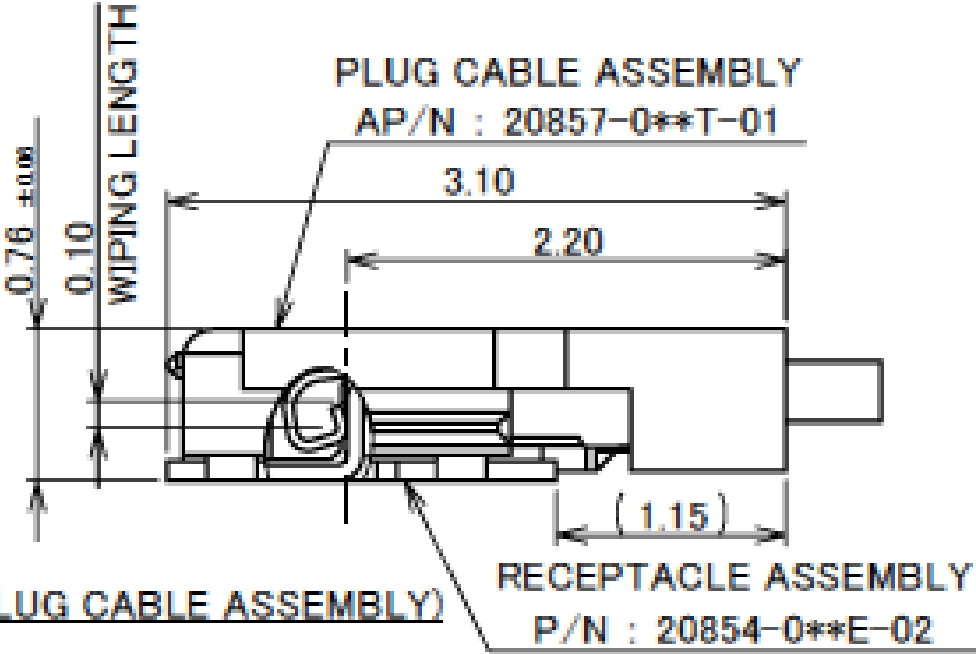
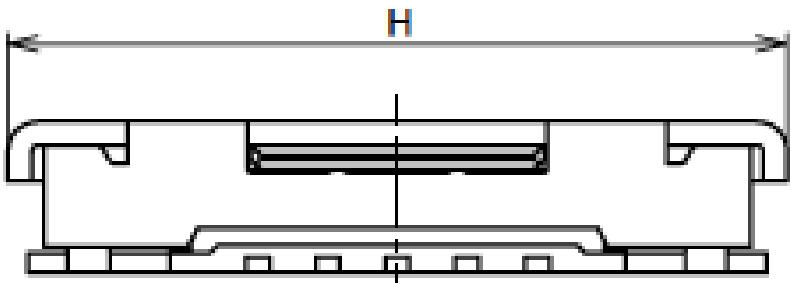
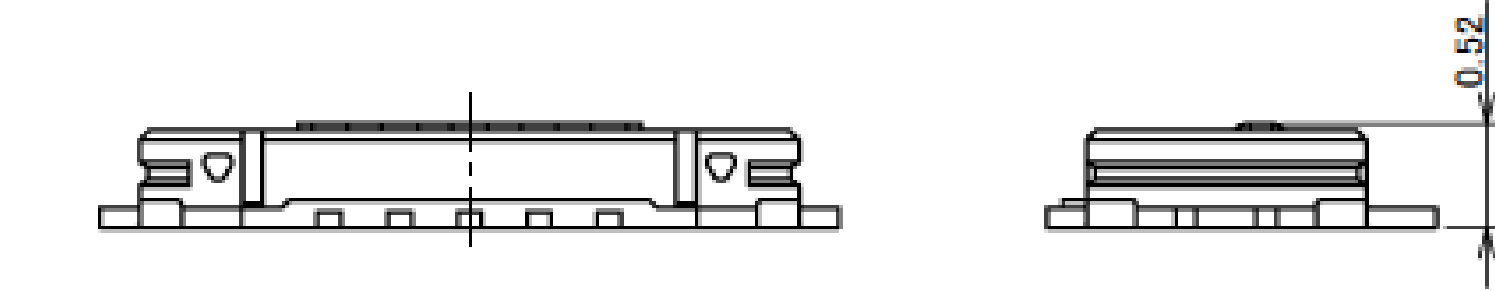
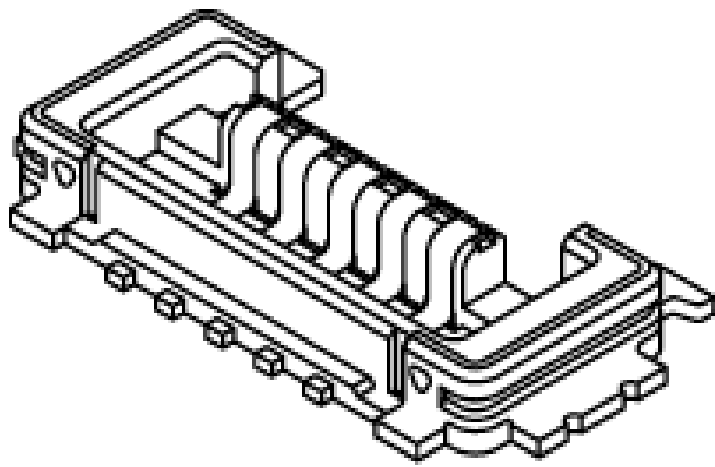
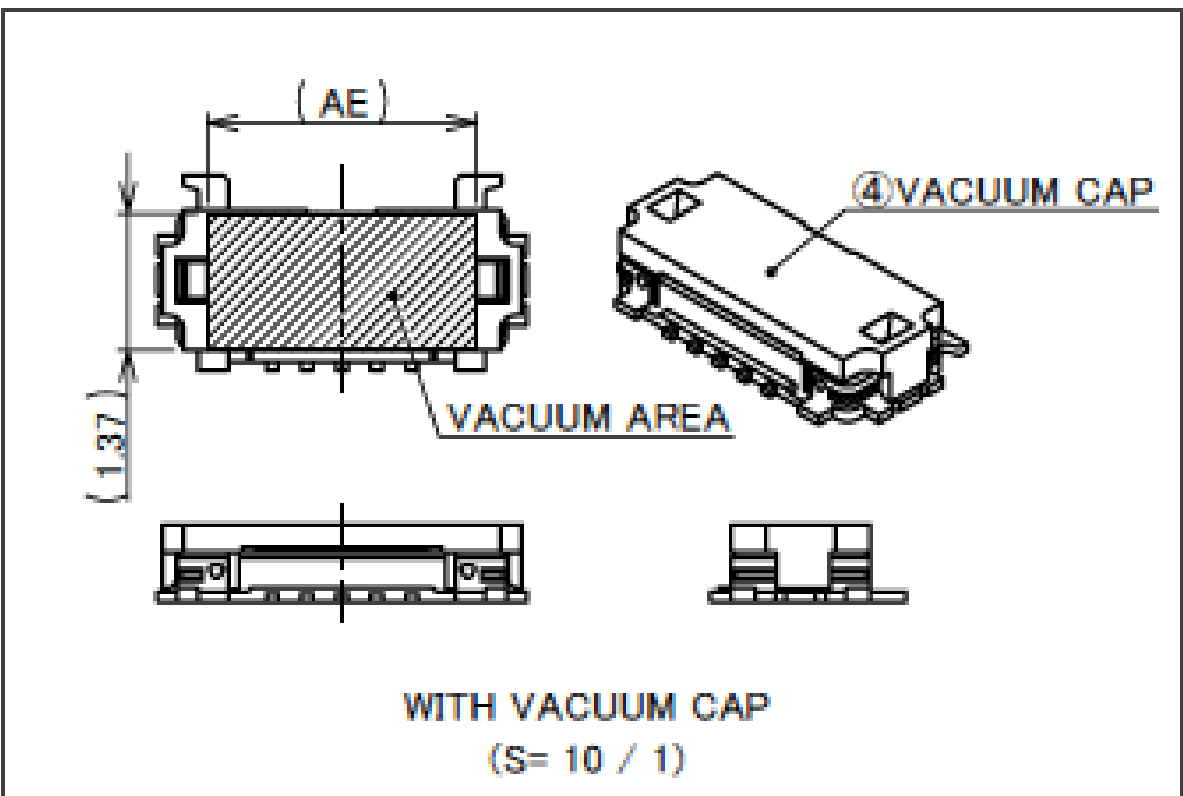
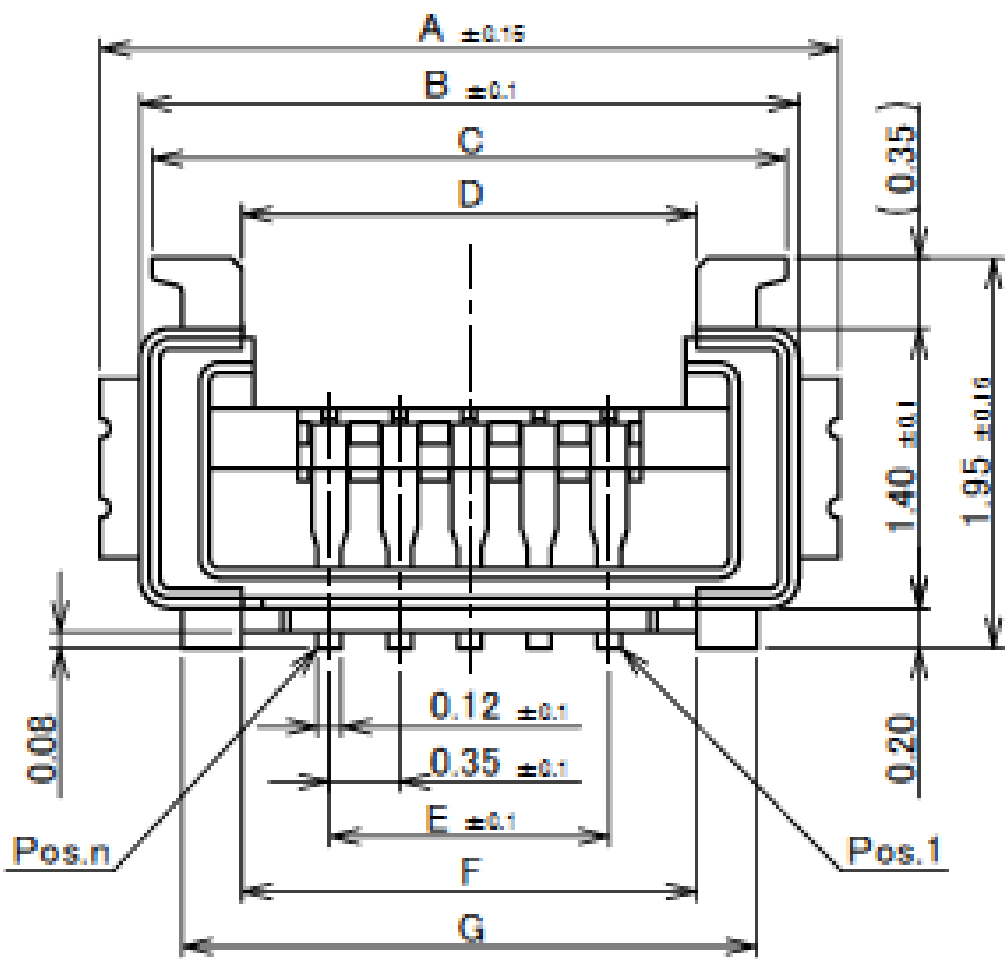
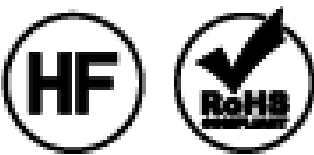
Plug for Cable Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	60V AC (PER CONTACT PIN) ※THIS 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℃~+85℃)
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 : ∠R 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***

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Receptacle Assembly

Recommended P/N		20854-0**E-02									
PART NO	Pos	A	B	C	D	E	F	G	H	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



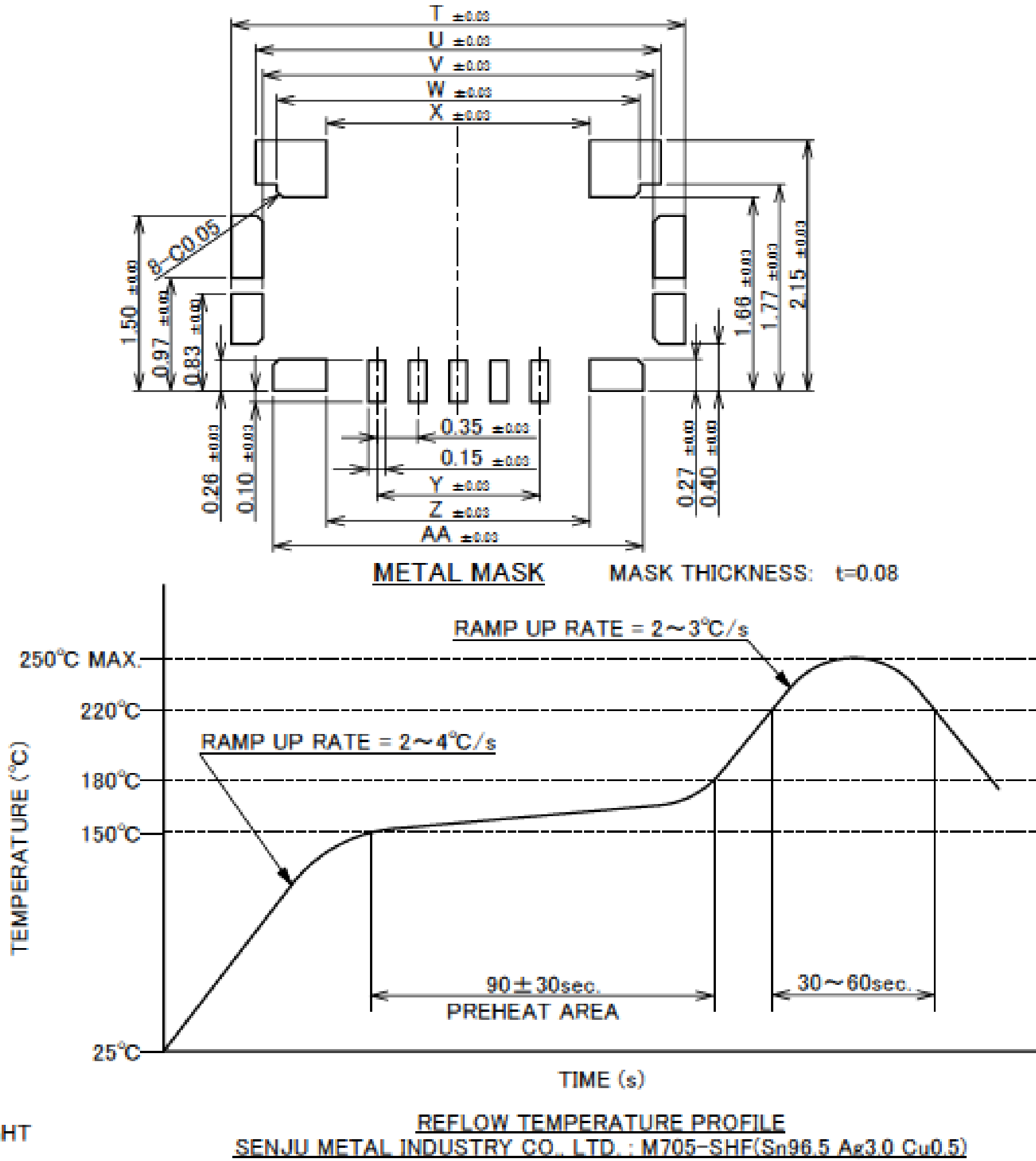
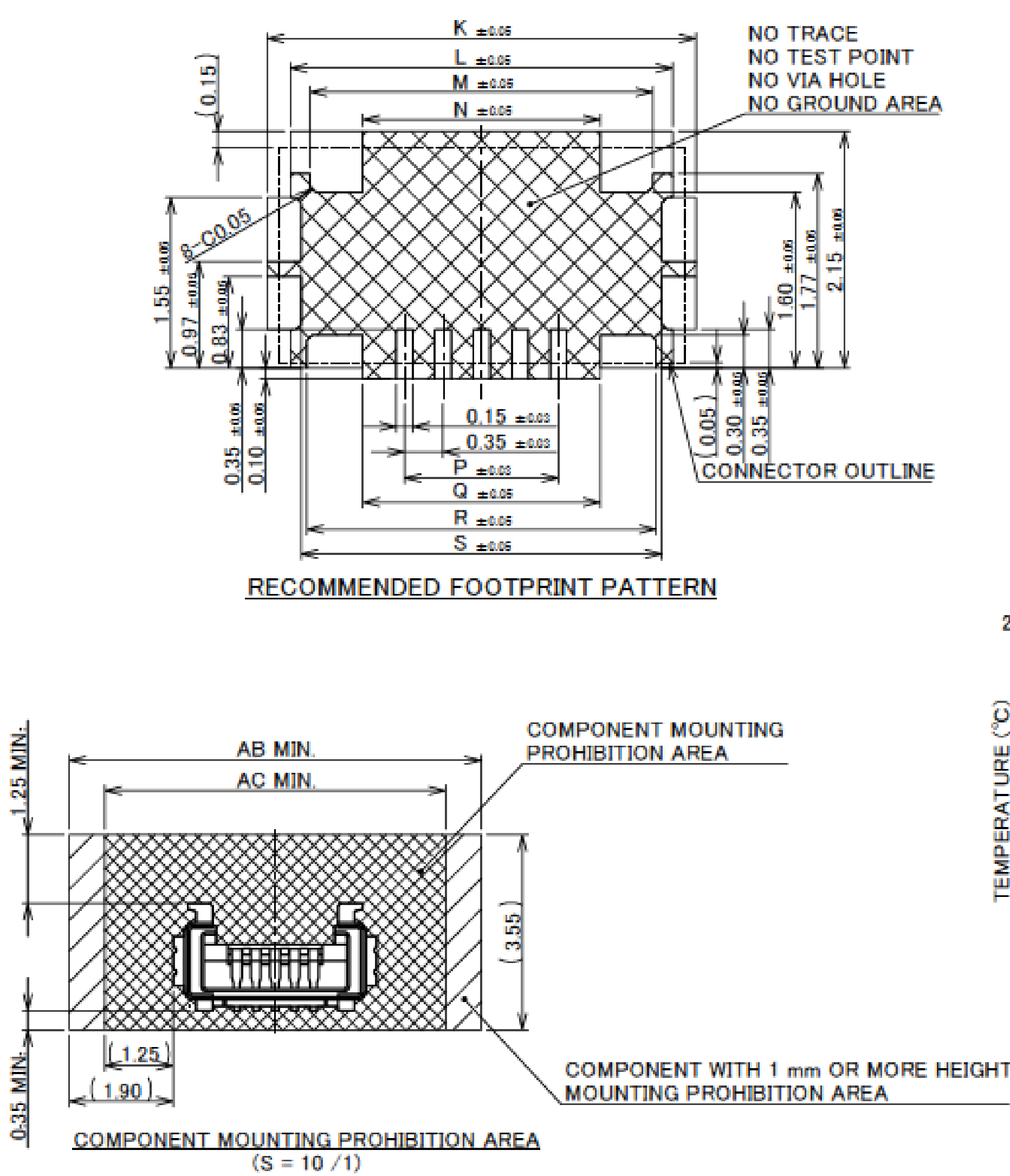
4	VACUUM CAP	LGP	UL94V-0, BLACK
3	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART: Au 0.01 μm MIN. SOLDERING PART: Au 0.01 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART: Au 0.05 μm MIN. SOLDERING PART: Au 0.03 μm MIN.
1	HOUSING	LGP	UL94V-0, BLACK
NO.	DESCRIPTION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

NOTE.
1. COPLANARITY: 0.08mm MAX.

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Receptacle Assembly

PART NO.	Pos.	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	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



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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 : ΔR 40mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : ΔR 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***

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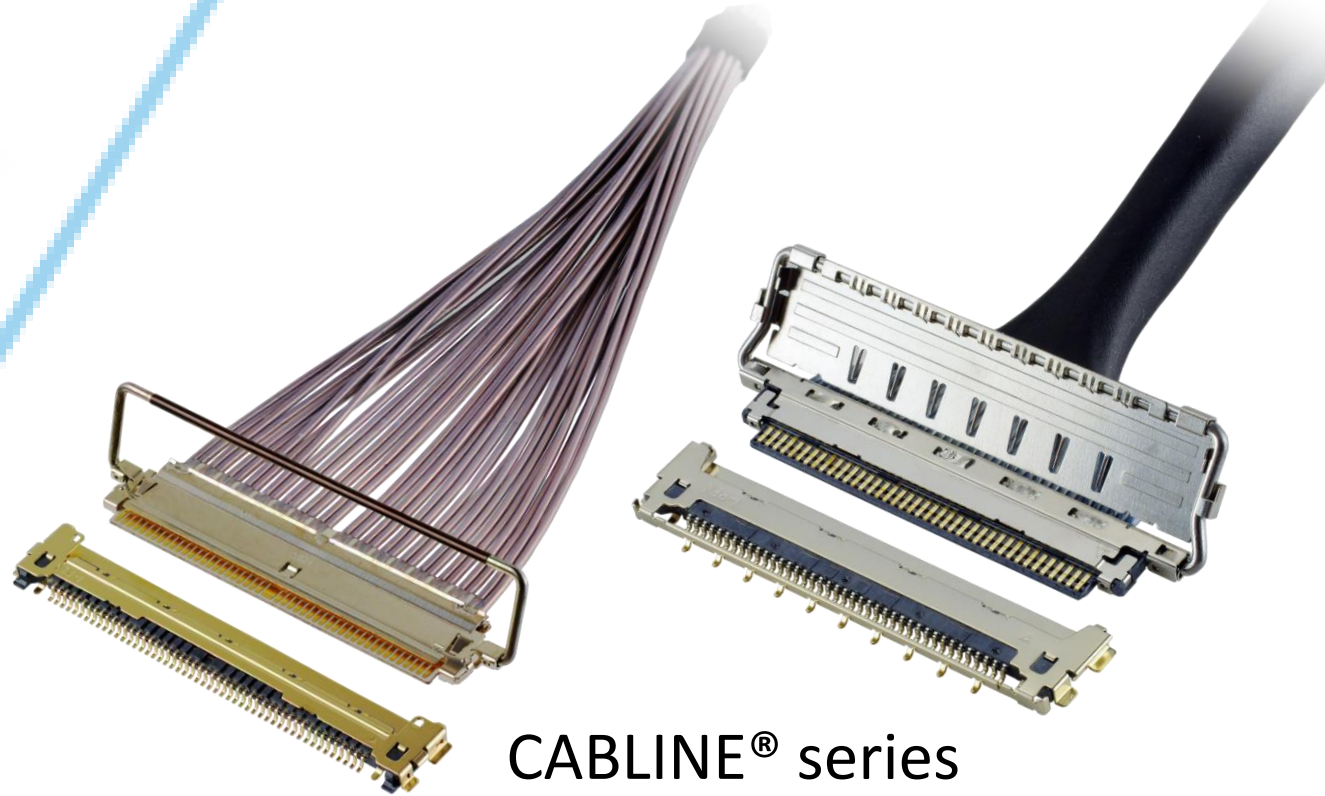
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



 Micro-Coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



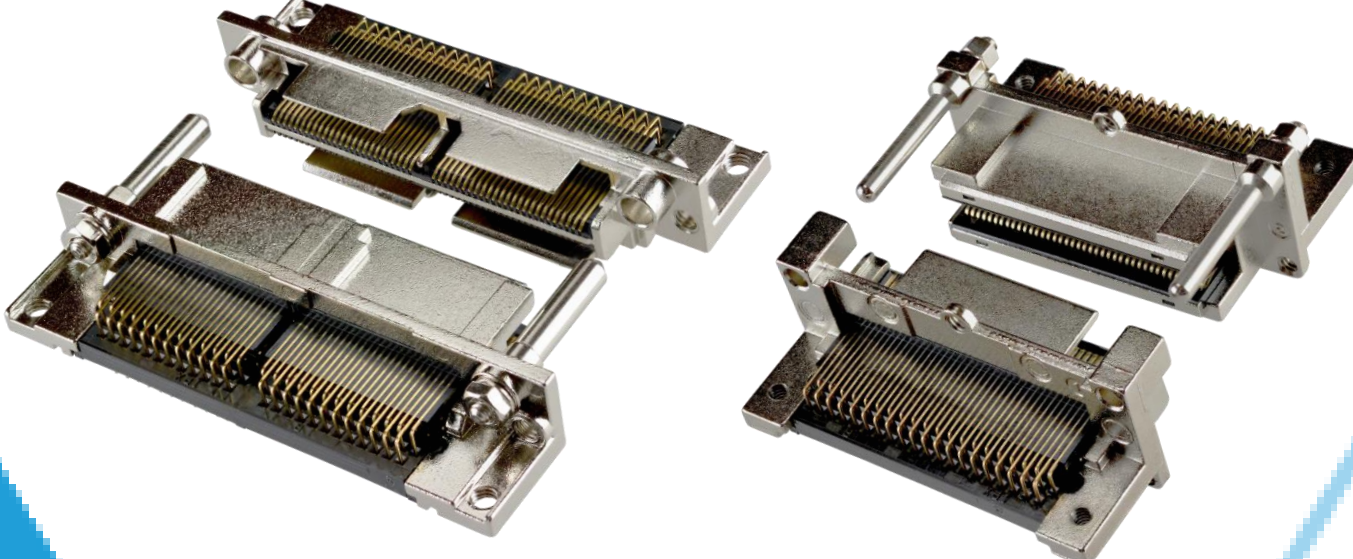
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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