

CABLINE®- UY

较低嵌合高度（嵌合高度 0.82 mm max.），适用于高速数据传输(32 Gbps/lane), 较窄间距（0.35 mm pitch），90度出线垂直插拔款的极细同轴线连接器

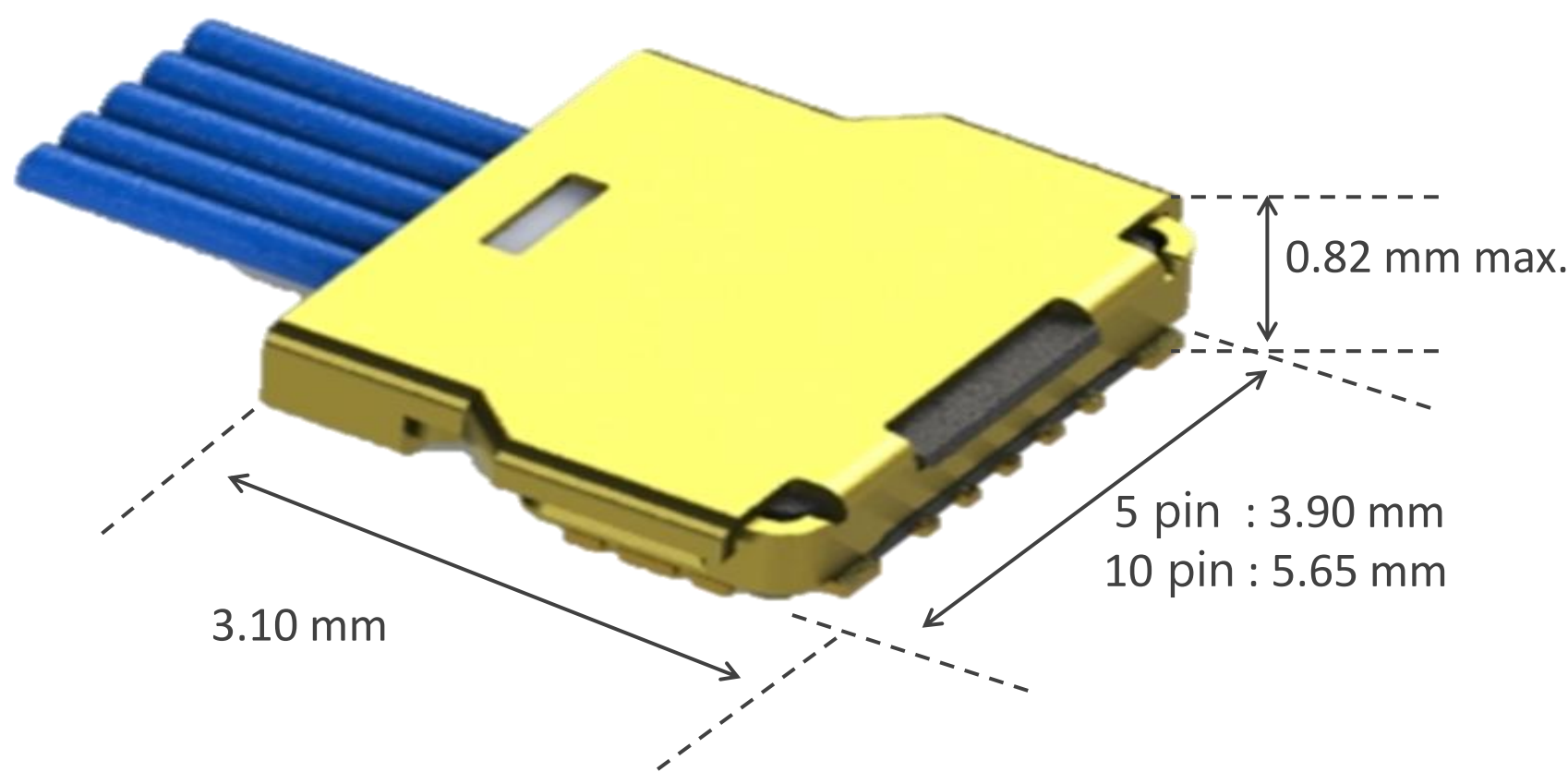
Product Specifications:			Applicable Cable Size:	
Mating Type		Right angle vertical	Maximum O.D.	0.35 mm
Board Pitch		0.35 mm	Micro-Coaxial for Signal	45 ohm: AWG 40 or smaller 50 ohm: AWG 42 or smaller
Wiping Length		0.1 mm	Twinaxial	-
Mated Size	Height	0.82 mm max.	Discrete	AWG 36 or smaller
	Width	2.15 + (0.35 x pin count) mm	Applicable Standards (Reference Only): 32 Gbps/Lane, USB4 Gen4 (40 Gbps/Lane PAM3) USB4 Gen3/Thunderbolt 4 (20 Gbps/lane)	
	Depth	3.10 mm		
Pin Counts	Range	Up to 25		
	Available	5, 10		

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

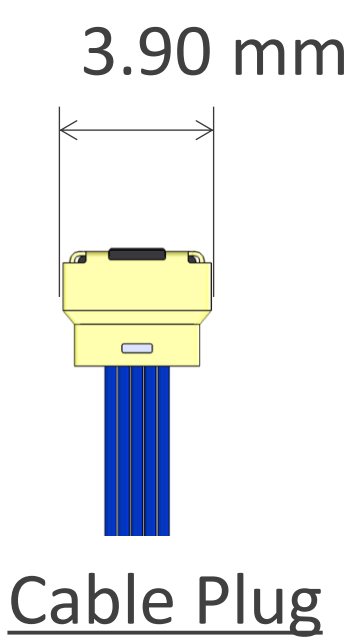


小而低的设计，适用于狭窄的空间

连接器组合大小



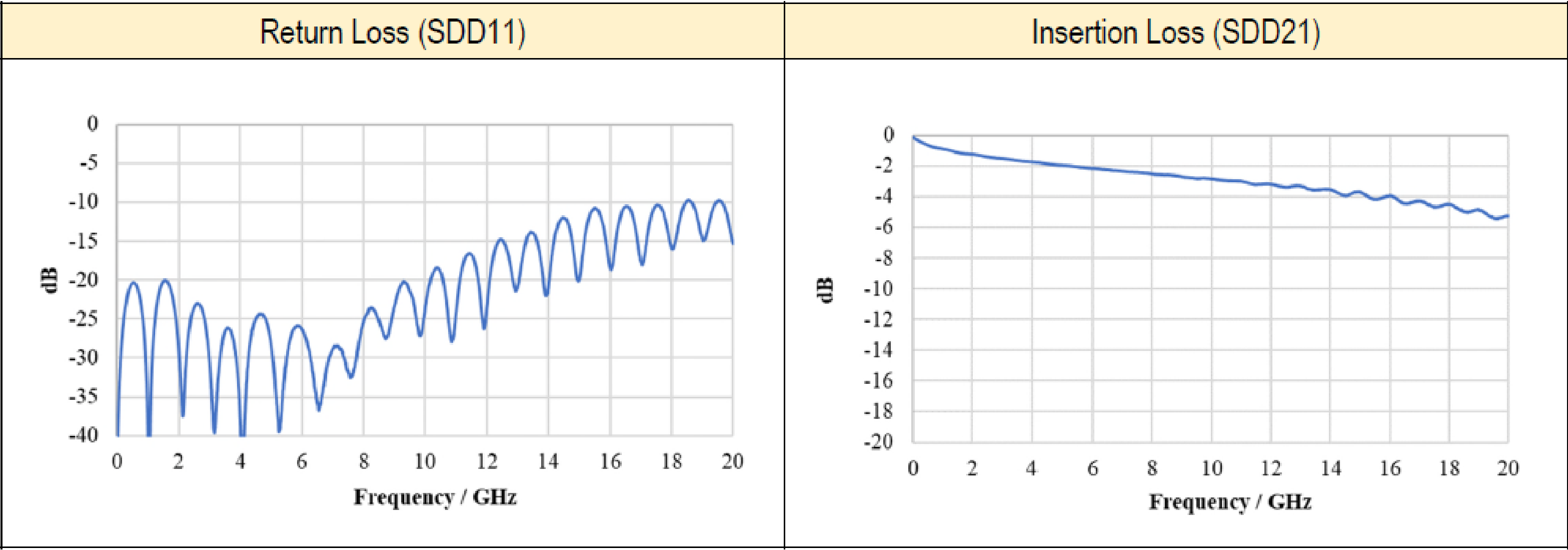
5 pin 公座和一美分硬币大小比较



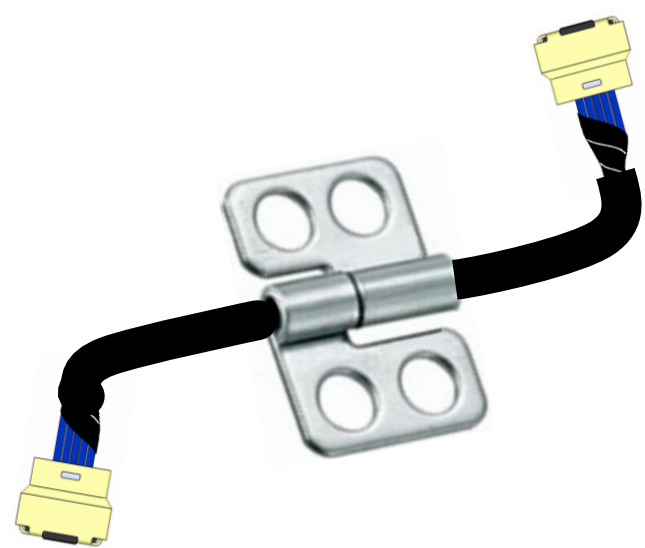
高速率传输, 32 Gbps/lane应用的理想之选

Measurement results

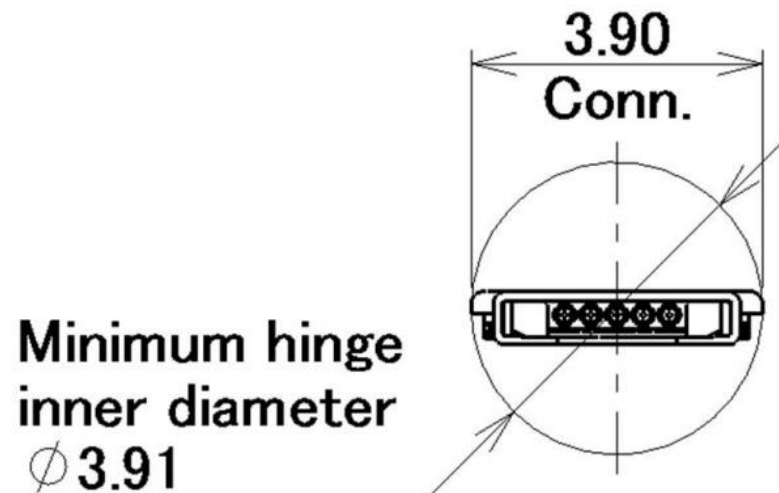
Connector: CABLINE-UY 10 pin
Cable: Micro-coaxial cable
AWG 42, 50 ohm , Length : 100 mm
Pin Assignment: GSSGSSG



适于穿孔的窄小型设计

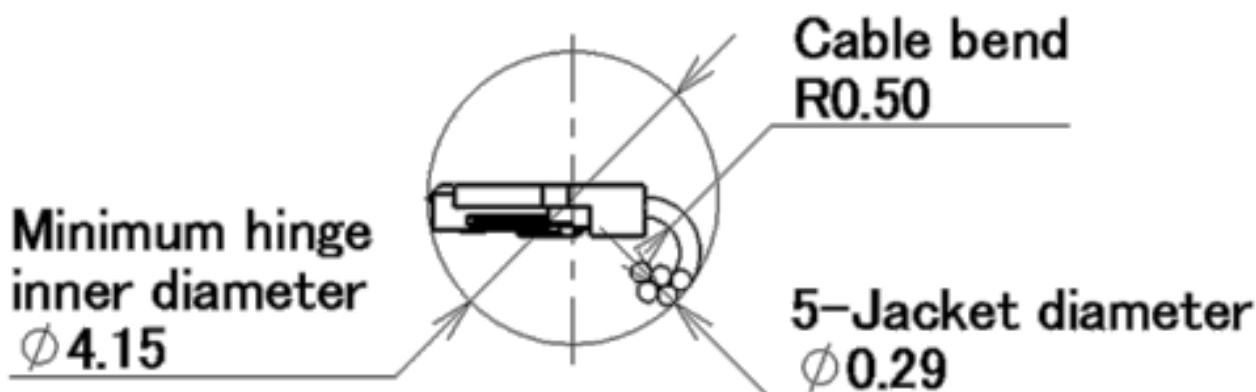


仿真结果（5 pin）：
不需要弯曲电缆线即可穿越转轴

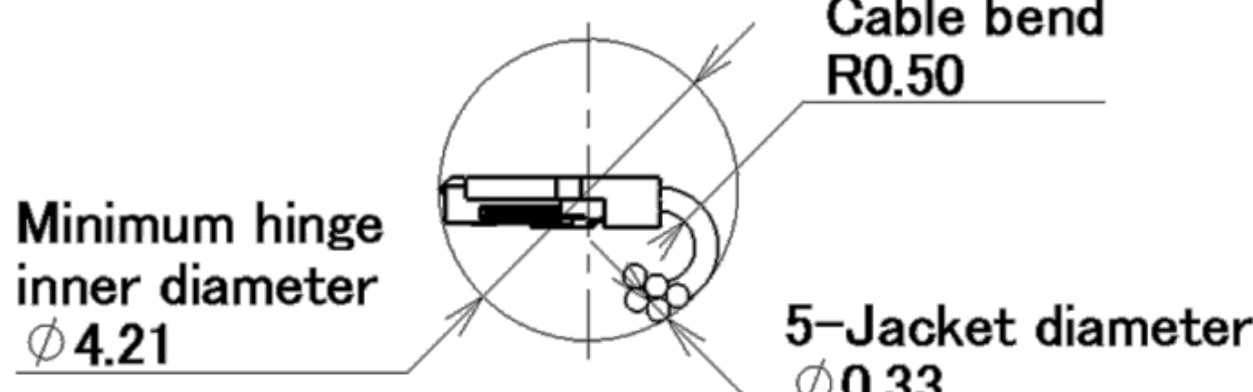


穿越转轴组件- CABLINE®连接器

仿真结果（大于5 pin）：最小转轴内径(mm)（未做粘接处理）

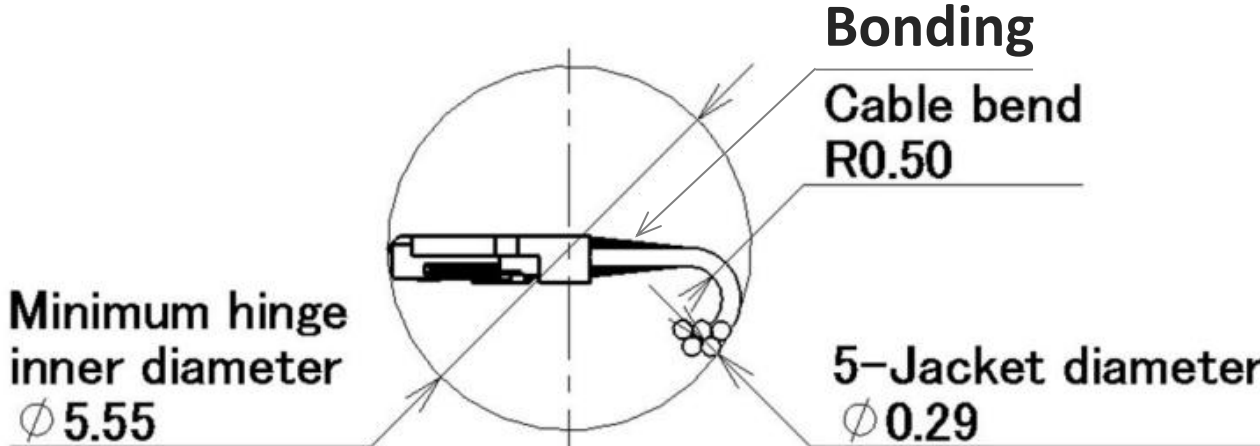


AWG 42 (45 ohm)

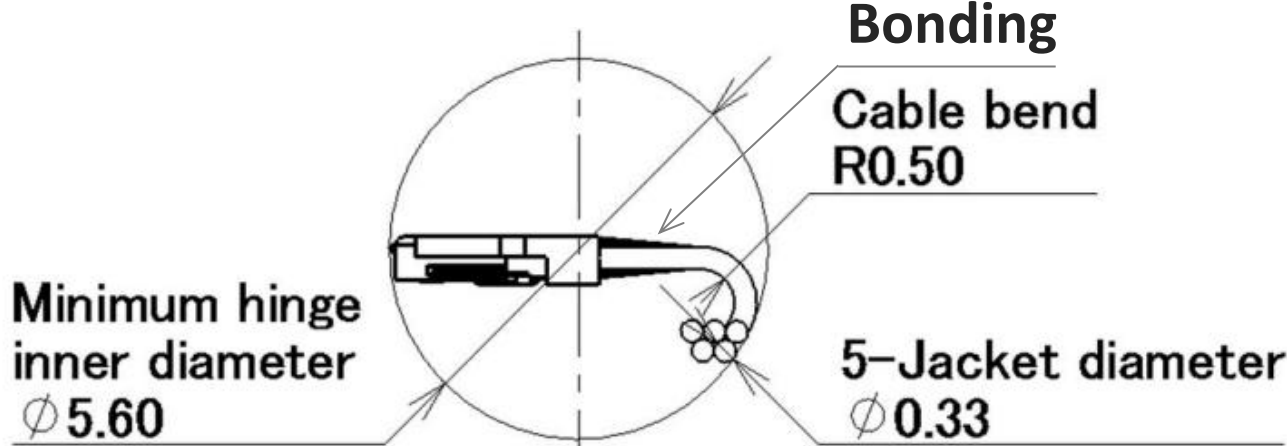


AWG 42 (50 ohm)

仿真结果（大于5 pin）：最小转轴内径(mm)（做粘接处理）



AWG 42 (45 ohm)



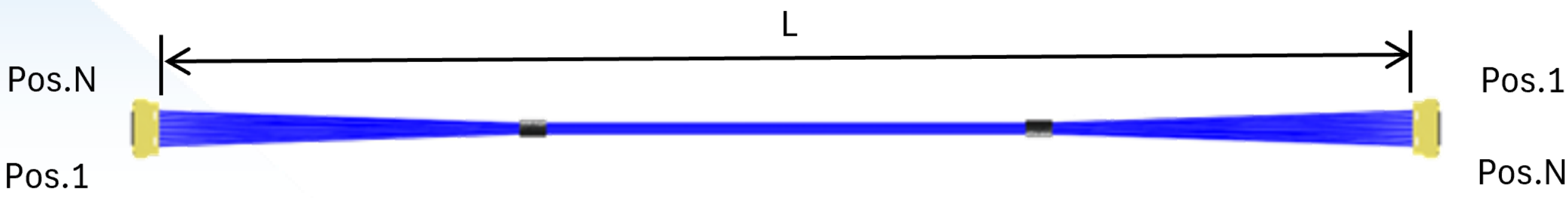
AWG 42 (50 ohm)

请联系您当地的销售代表，了解更详细的信息 www.i-pex.com

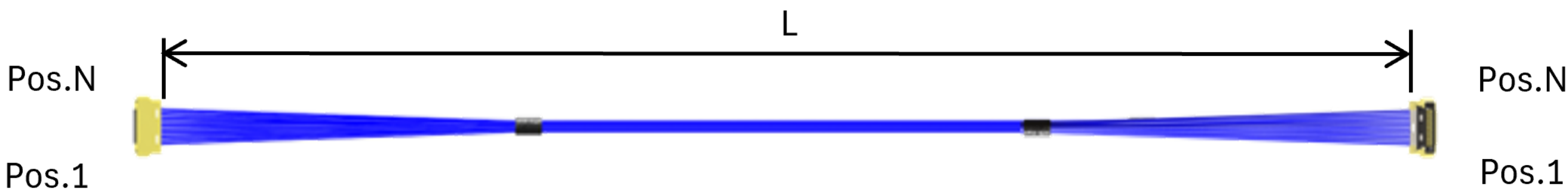
202603R0

CABLINE® -UY standard harness

- ◆ Please click the part number to get its 2D drawing.
- ◆ Please be advised that if it becomes necessary to change the harness specifications, the part number will also need to be updated. The following part number is valid only when used with the harness specifications shown below.
- ◆ Please contact us via [Inquiry form](#) for other harness specifications.



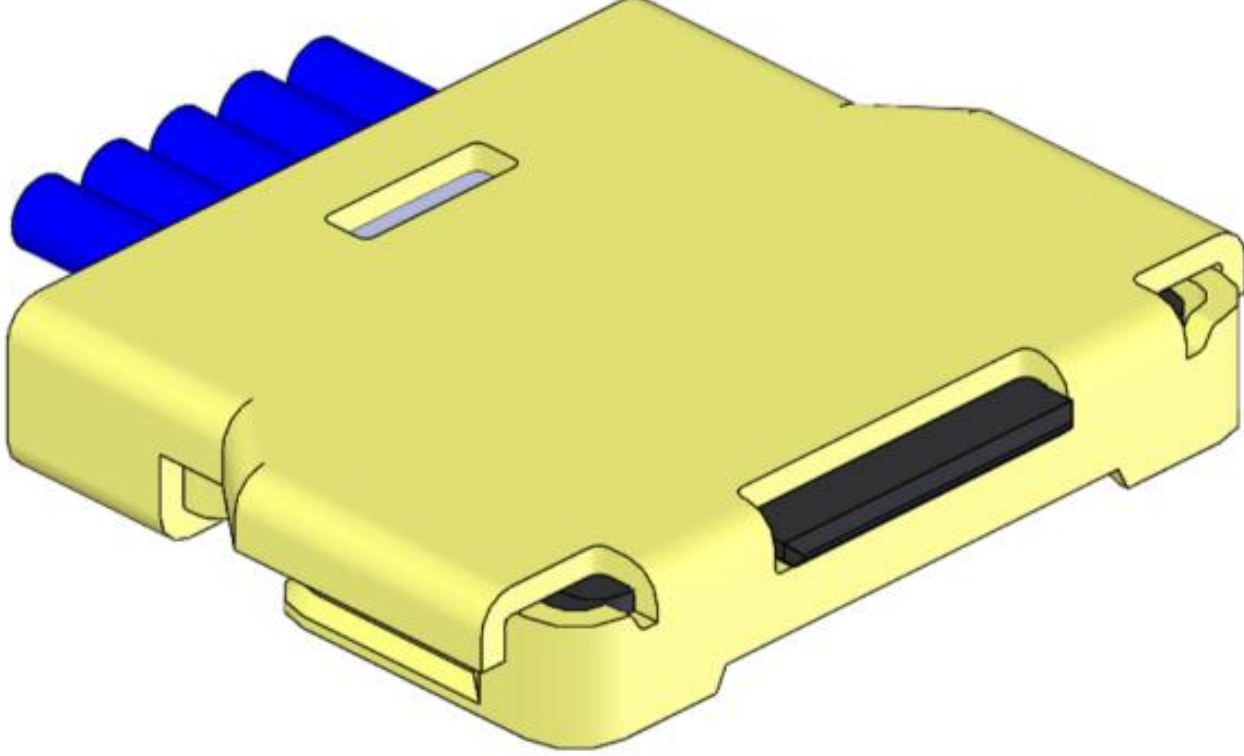
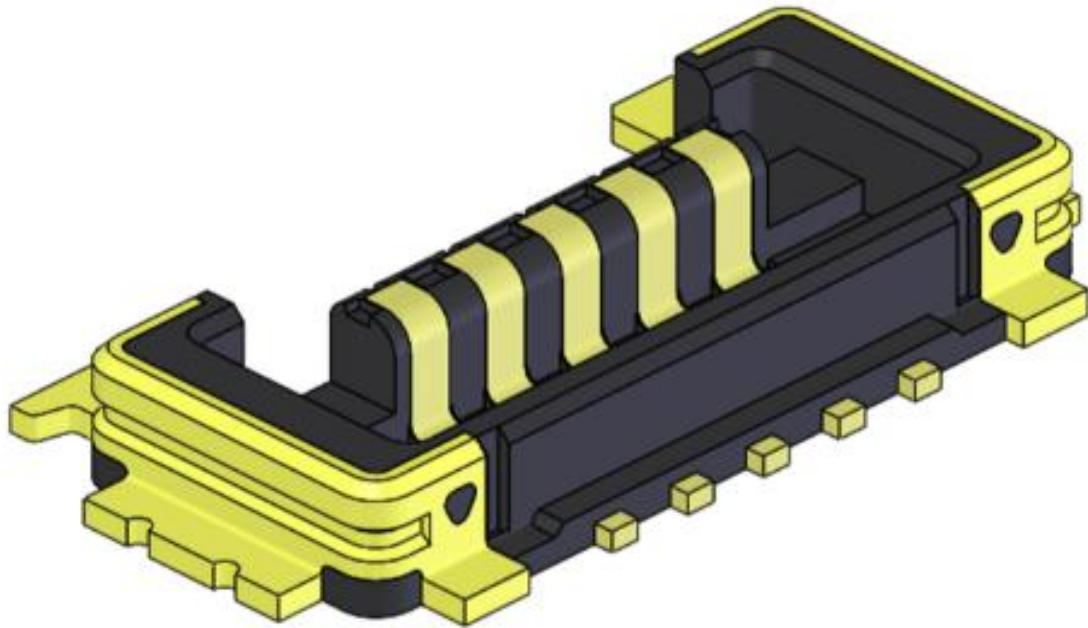
Part Number Description	Part Number (Link to Drawing)	Sample available
CABLINE-UY harness 5pin micro-coaxial 42AWG L=100mm 1-N	81426-100B-03-D	Buy from Digikey
CABLINE-UY harness 5pin micro-coaxial 42AWG L=200mm 1-N	81426-100B-02-D	Buy from Digikey
CABLINE-UY harness 5pin micro-coaxial 42AWG L=300mm 1-N	81426-100B-01-D	Buy from Digikey
CABLINE-UY harness 10pin micro-coaxial 42AWG L=100mm 1-N	81787-100B-03-D	Buy from Digikey
CABLINE-UY harness 10pin micro-coaxial 42AWG L=200mm 1-N	81787-100B-02-D	Buy from Digikey
CABLINE-UY harness 10pin micro-coaxial 42AWG L=300mm 1-N	81787-100B-01-D	Buy from Digikey



Part Number Description	Part Number (Link to Drawing)	Sample available
CABLINE-UY harness 5pin micro-coaxial 42AWG L=100mm 1-1	82681-100B-01-D	Contact us
CABLINE-UY harness 5pin micro-coaxial 42AWG L=200mm 1-1	82682-100B-01-D	Contact us
CABLINE-UY harness 5pin micro-coaxial 42AWG L=300mm 1-1	82448-100B-02-D	Buy from Digikey
CABLINE-UY harness 10pin micro-coaxial 42AWG L=100mm 1-1	82683-100B-01-D	Contact us
CABLINE-UY harness 10pin micro-coaxial 42AWG L=200mm 1-1	82684-100B-01-D	Contact us
CABLINE-UY harness 10pin micro-coaxial 42AWG L=300mm 1-1	82449-100B-02-D	Buy from Digikey

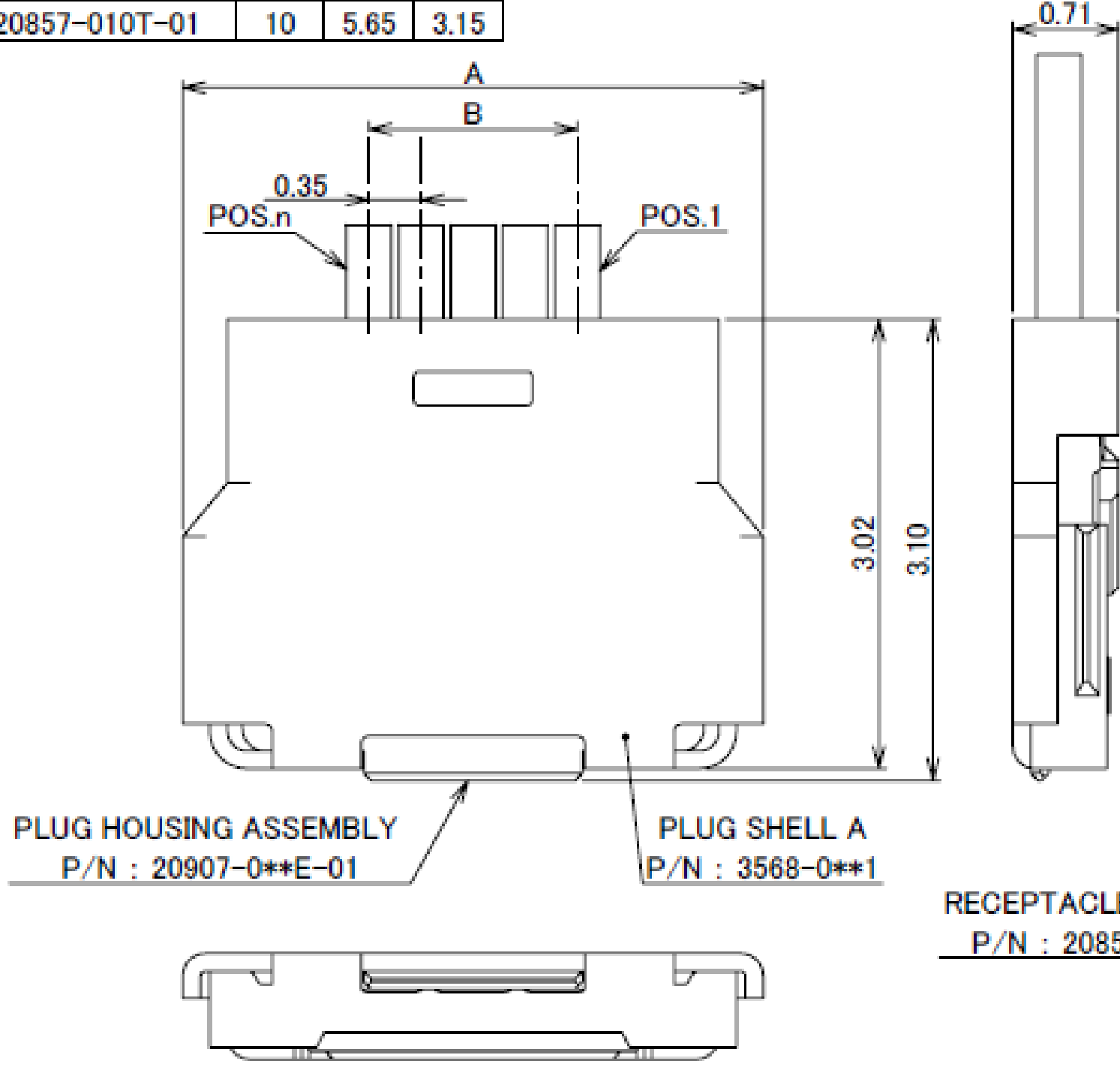
Component Parts Details

Component Parts

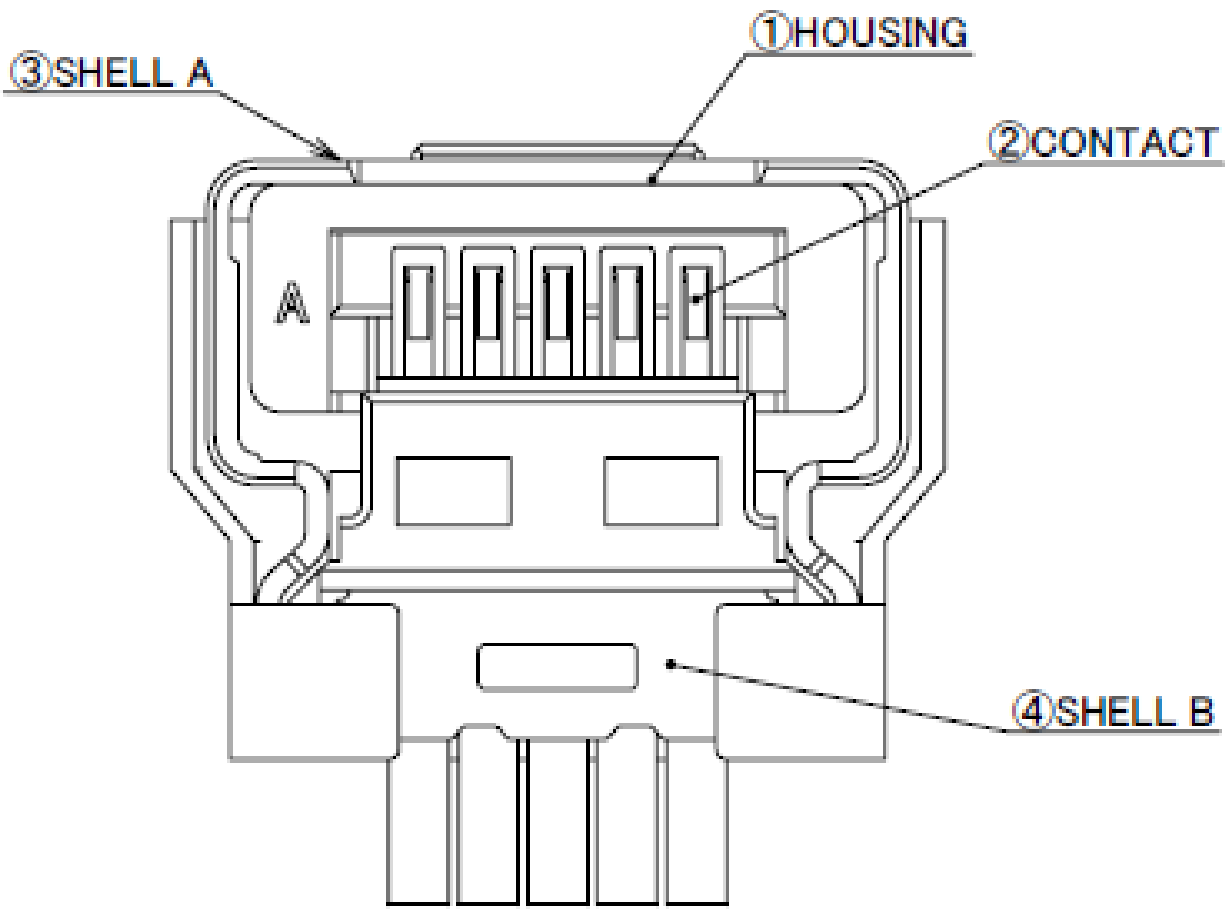
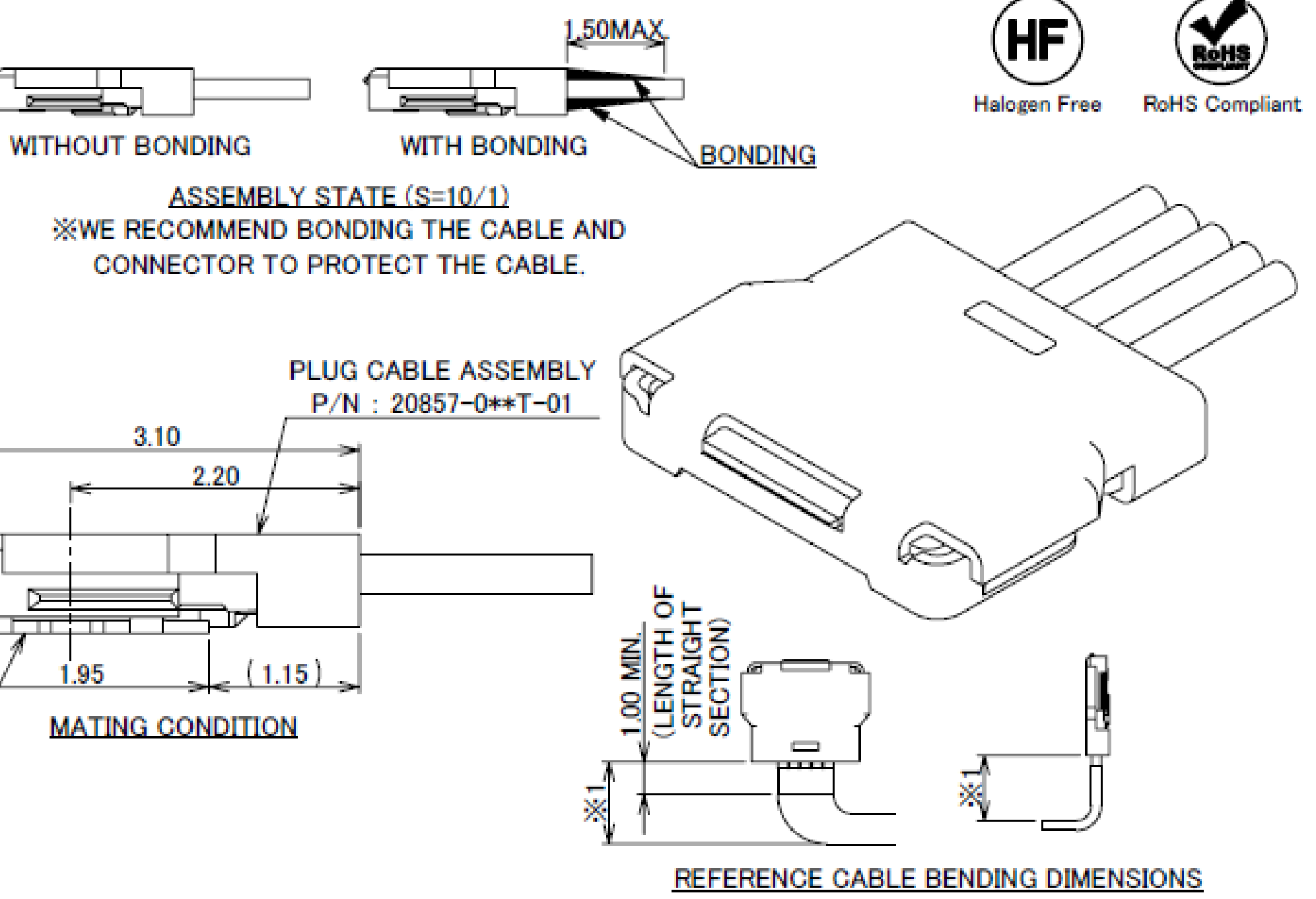
Connector parts	
	
CABLE PLUG	RECEPTACLE

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	



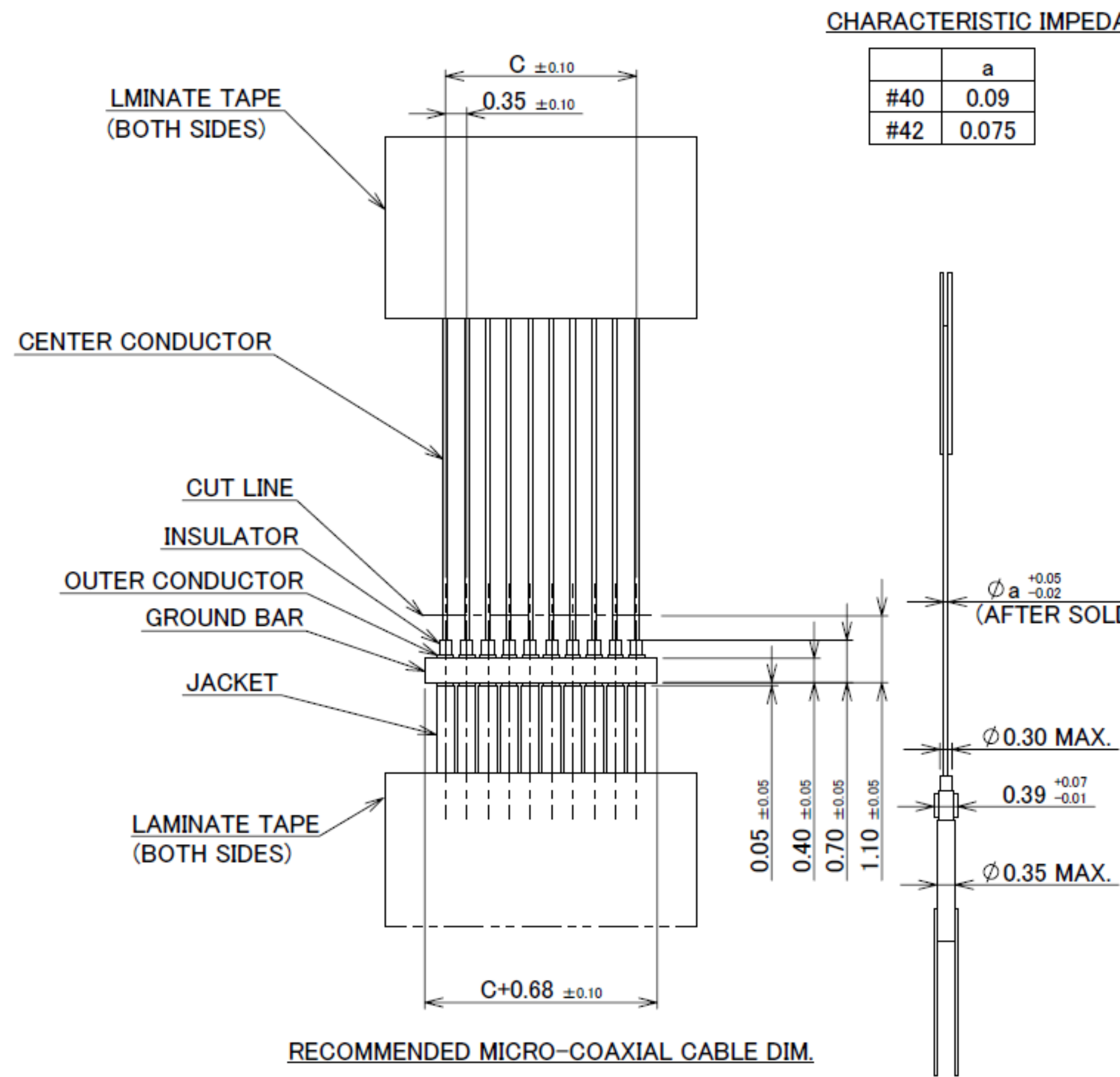
PART COMBINATION TABLE			
PLUG CABLE ASSEMBLY	PLUG HOUSING ASSEMBLY	PLUG SHELL A	RECEPTACLE ASSEMBLY
20857-005T-01	20907-005E-01	3568-0051	20854-005E-02
20857-010T-01	20907-010E-01	3568-0101	20854-010E-02



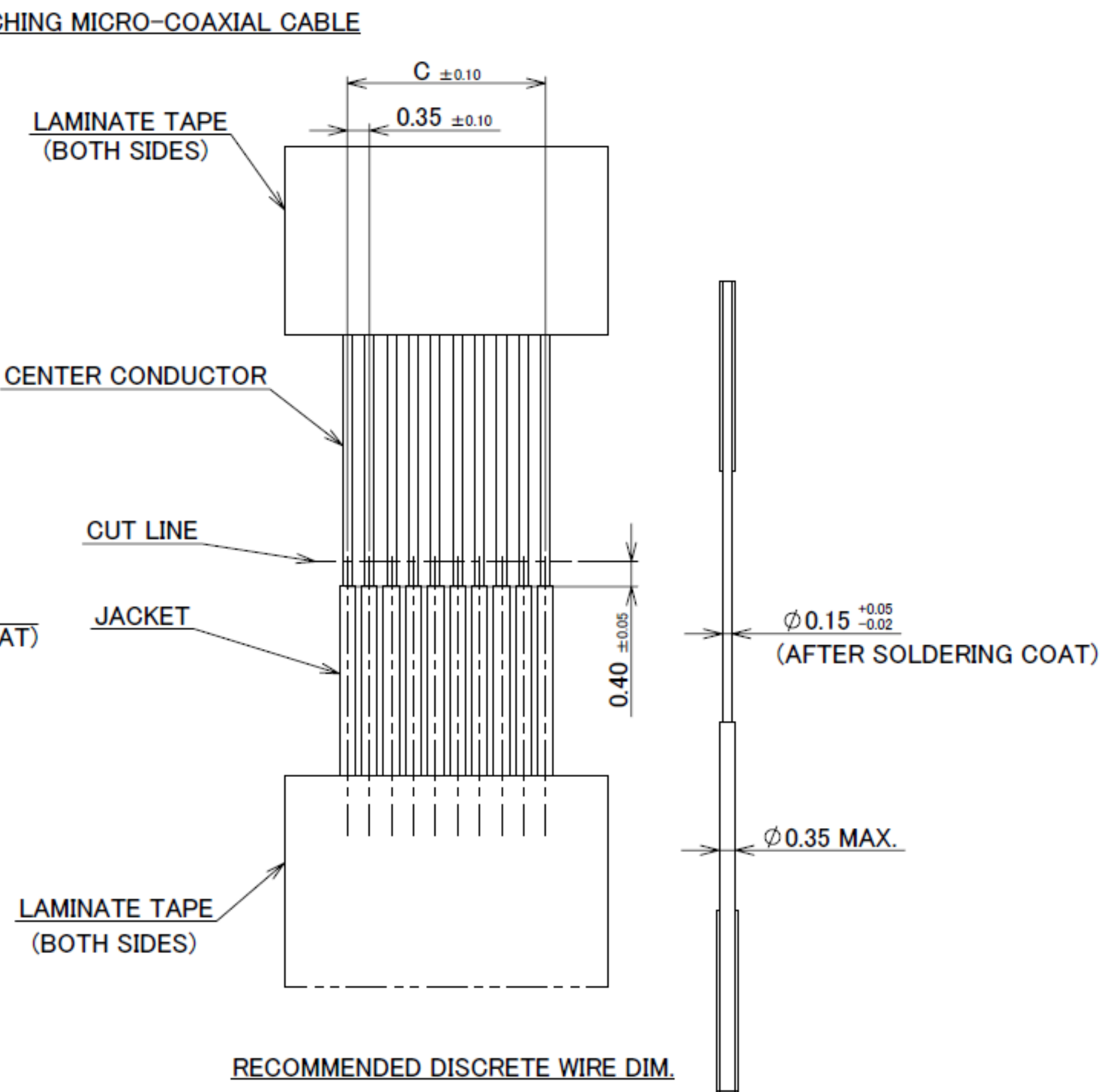
※1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

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

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



MICRO-COAXIAL CABLE AWG# **



DISCRETE WIRE AWG# 36

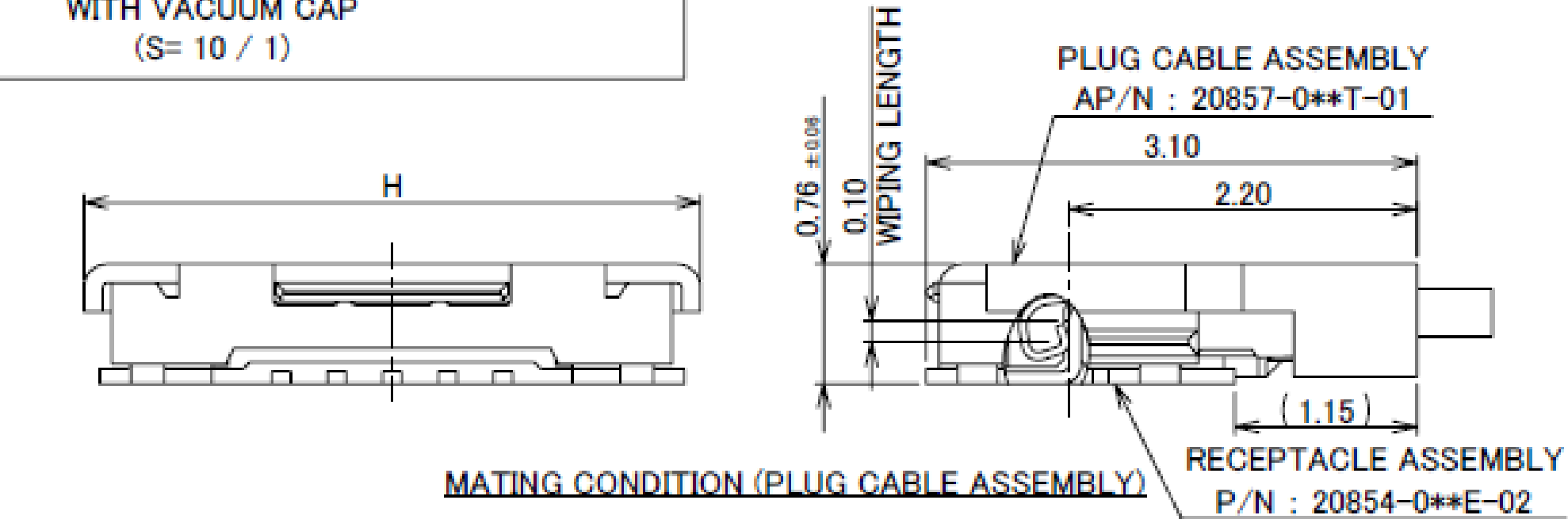
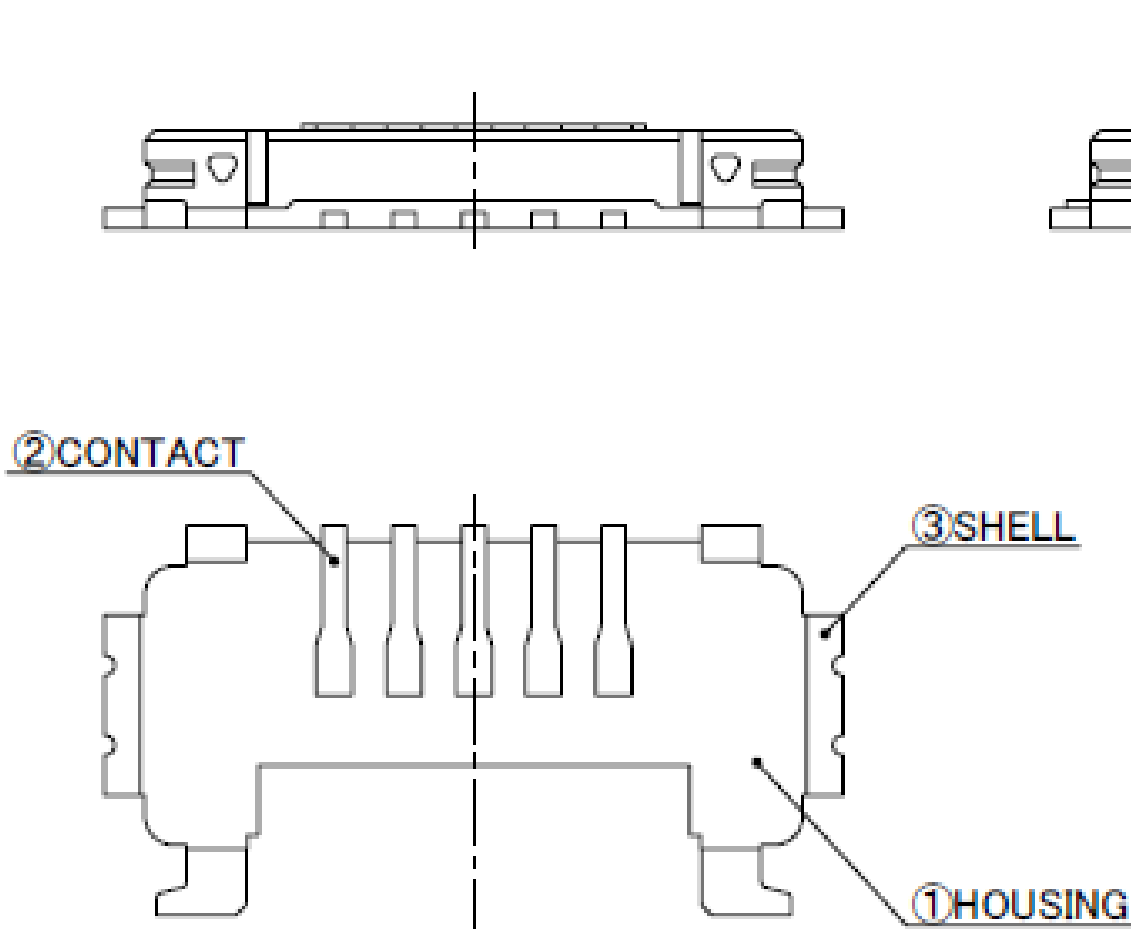
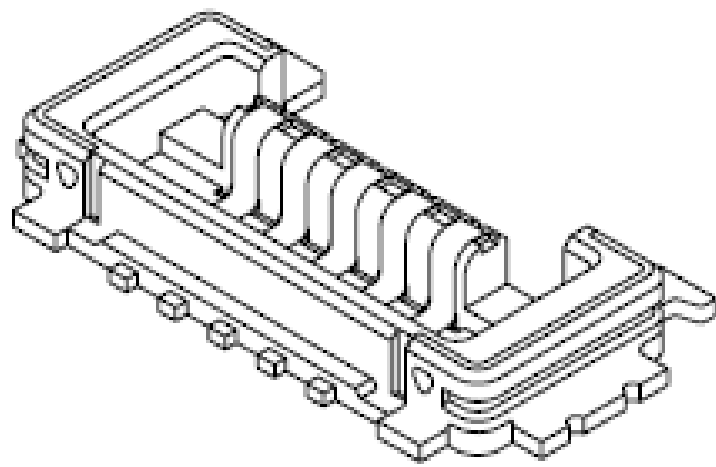
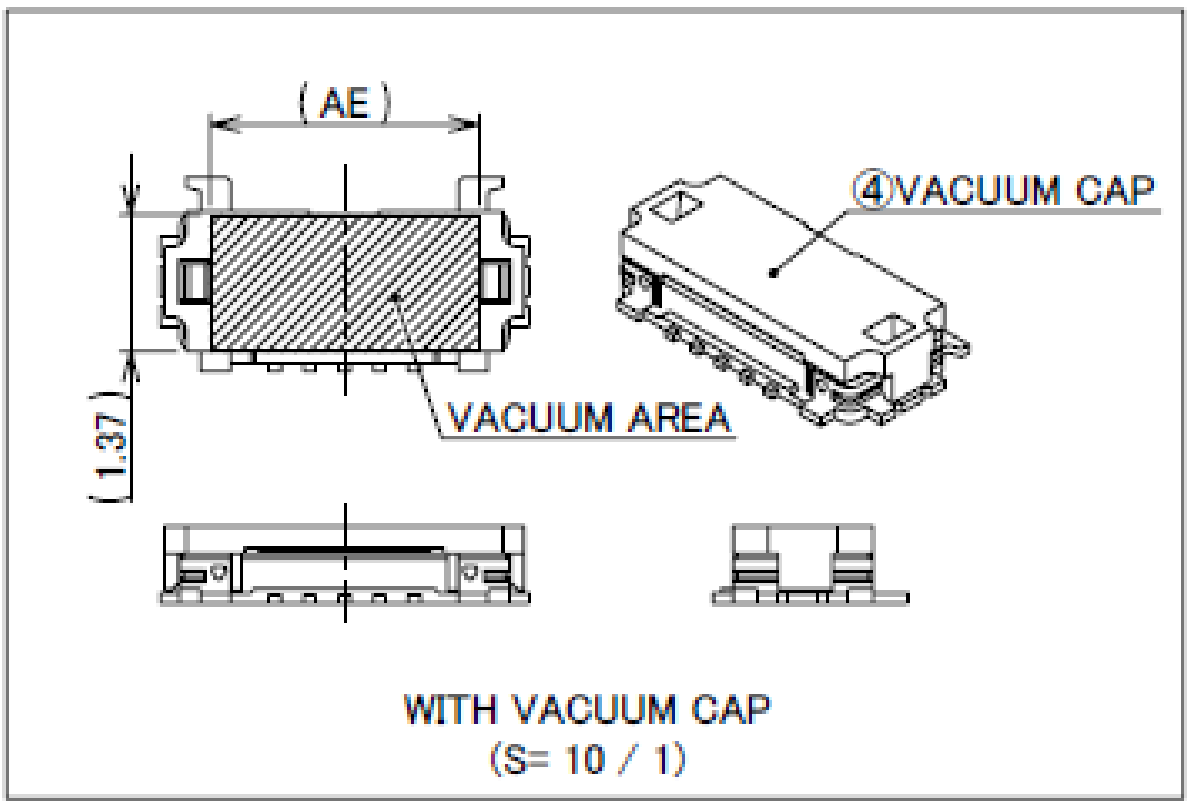
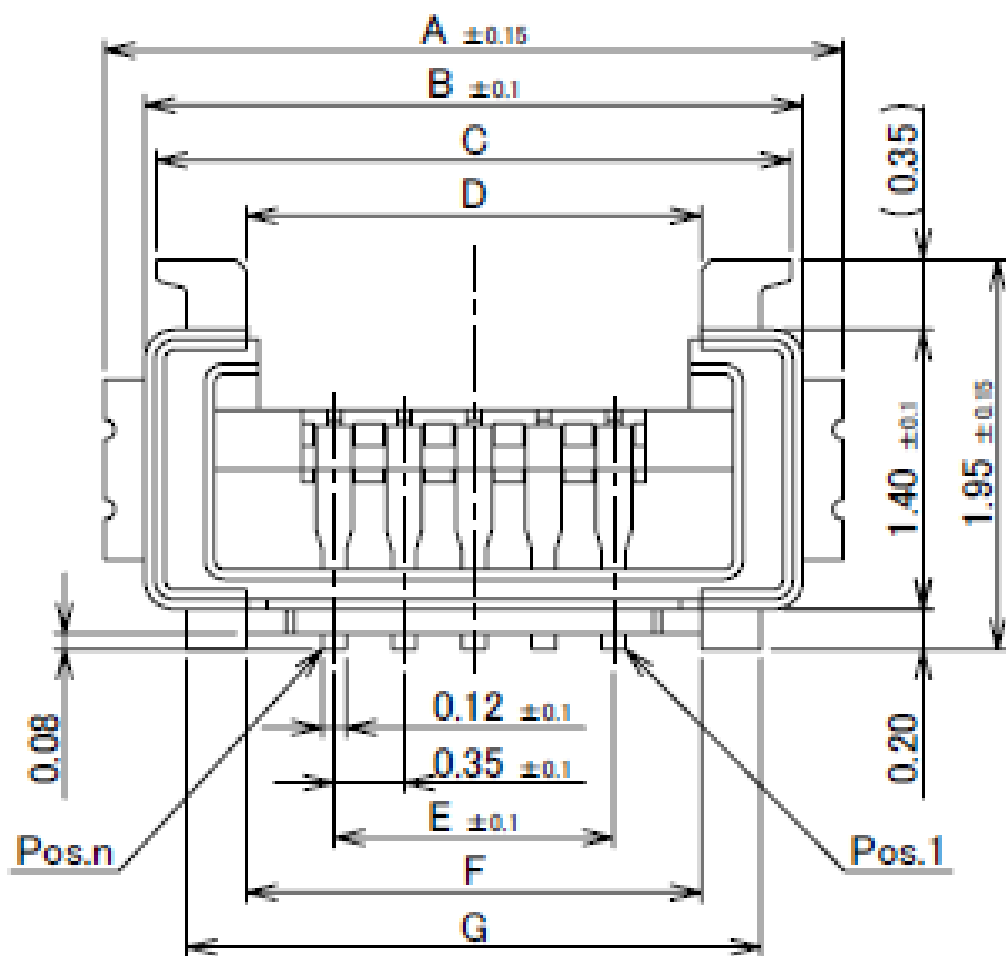
Plug for Cable Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 , 40 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] PER CONTACT PIN/UP TO 10 CONTACTS 0.38 AC/DC[AWG# 40] PER CONTACT PIN/UP TO 10 CONTACTS 0.5 AC/DC[AWG# 36] PER CONTACT PIN/UP TO 10 CONTACTS
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. 600mohm MAX.(AWG# 40) 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***

Rev.7

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

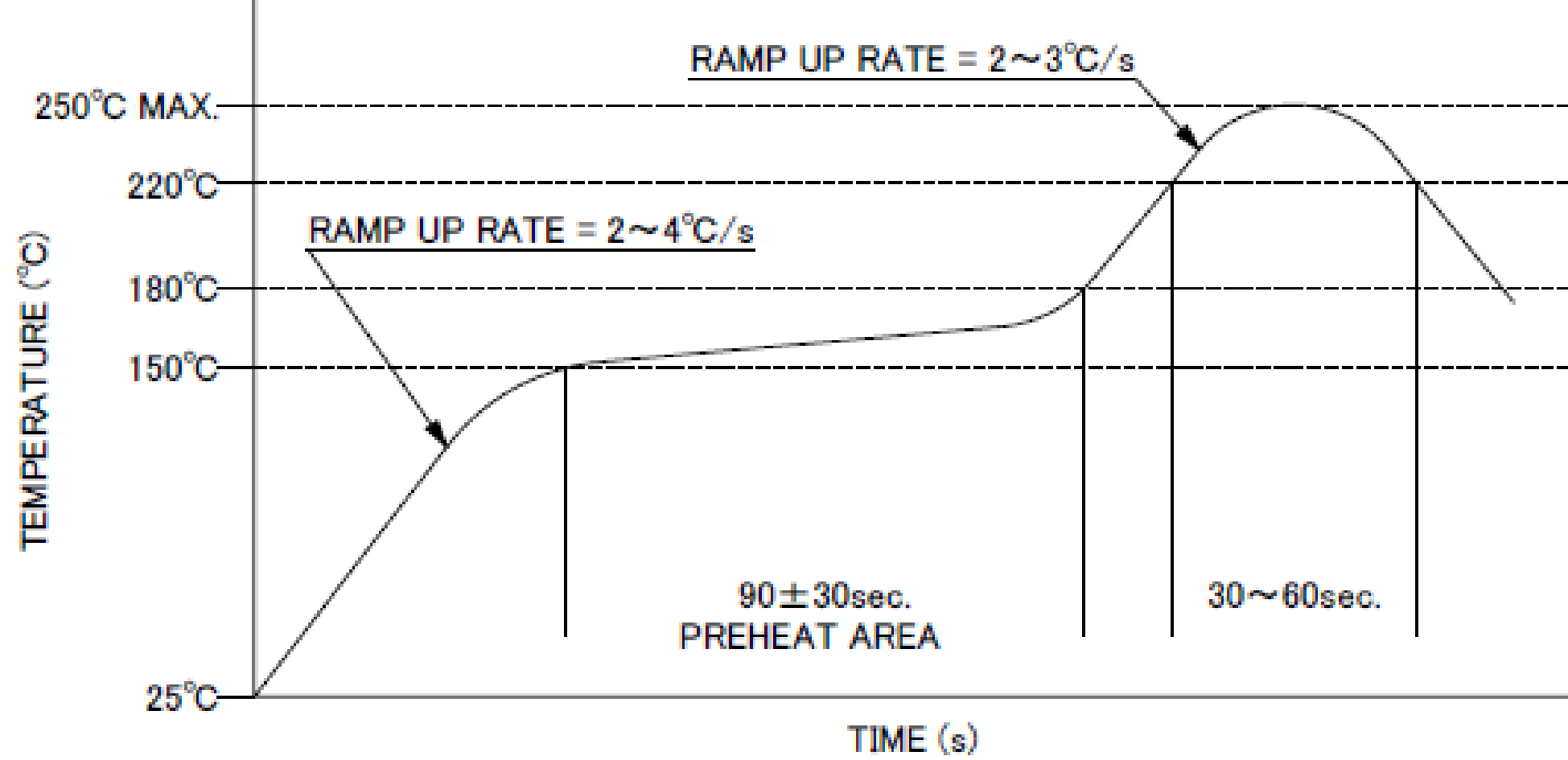
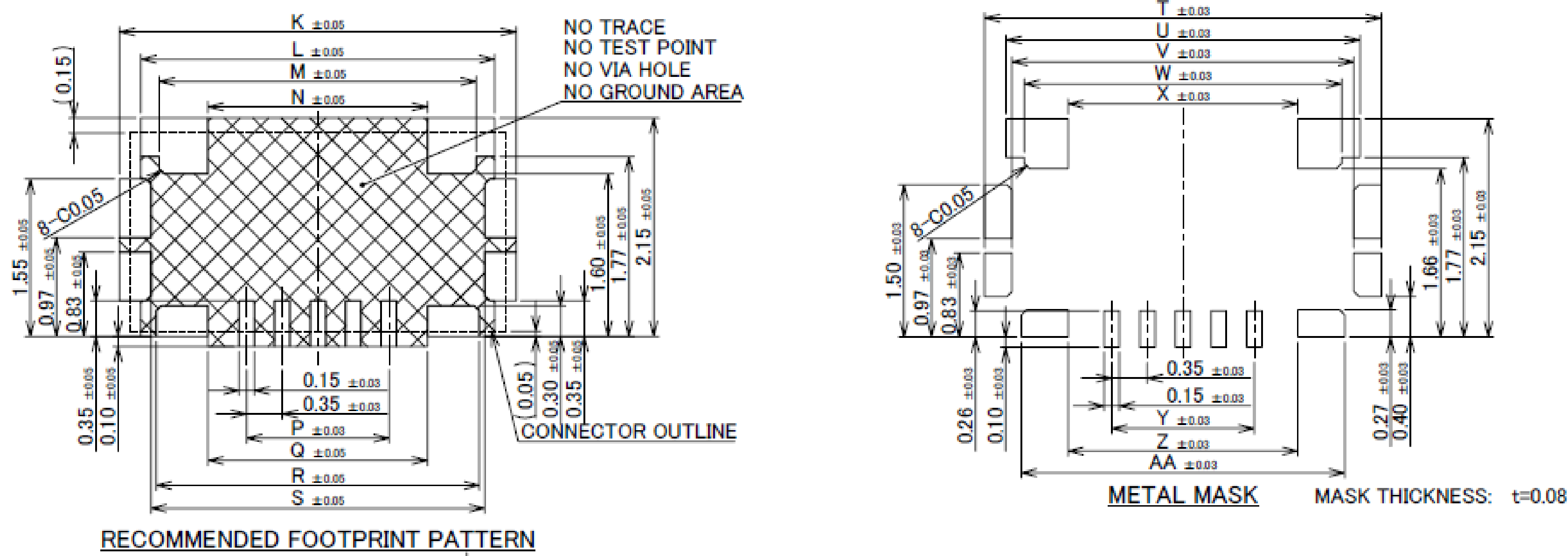


4	VACUUM CAP	LCP	UL94V-0, BLACK
3	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART: Au 0.01 μm MIN. SOLDERING PART: Au 0.01 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART: Au 0.05 μm MIN. SOLDERING PART: Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DESCRIPTION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

Rev.7

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



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.7

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20857-0**T-01 (PLUG CABLE ASSEMBLY)
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 , 40 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.35 AC/DC [AWG#42] PER CONTACT PIN/UP TO 10 CONTACTS 0.38 AC/DC [AWG#40] PER CONTACT PIN/UP TO 10 CONTACTS 0.50 AC/DC [AWG#36] PER CONTACT PIN/UP TO 10 CONTACTS
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. 600mohm MAX.(AWG#40) 275mohm MAX.(AWG#36)
GROUND CONTACT 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	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***

Rev.7

Custom Connectors Available

RF Connectors

MHF® series



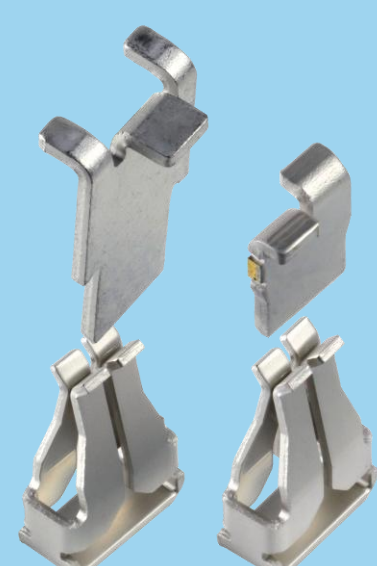
CABLINE® series

Micro-Coaxial/Twinaxial Connectors

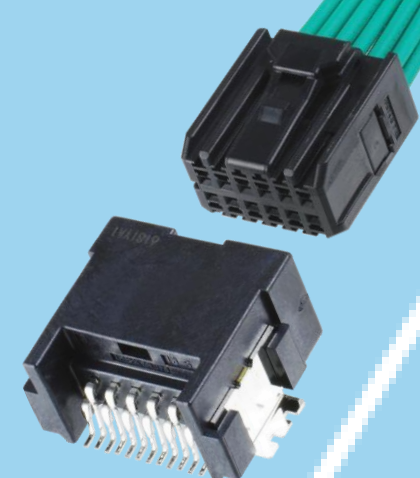


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



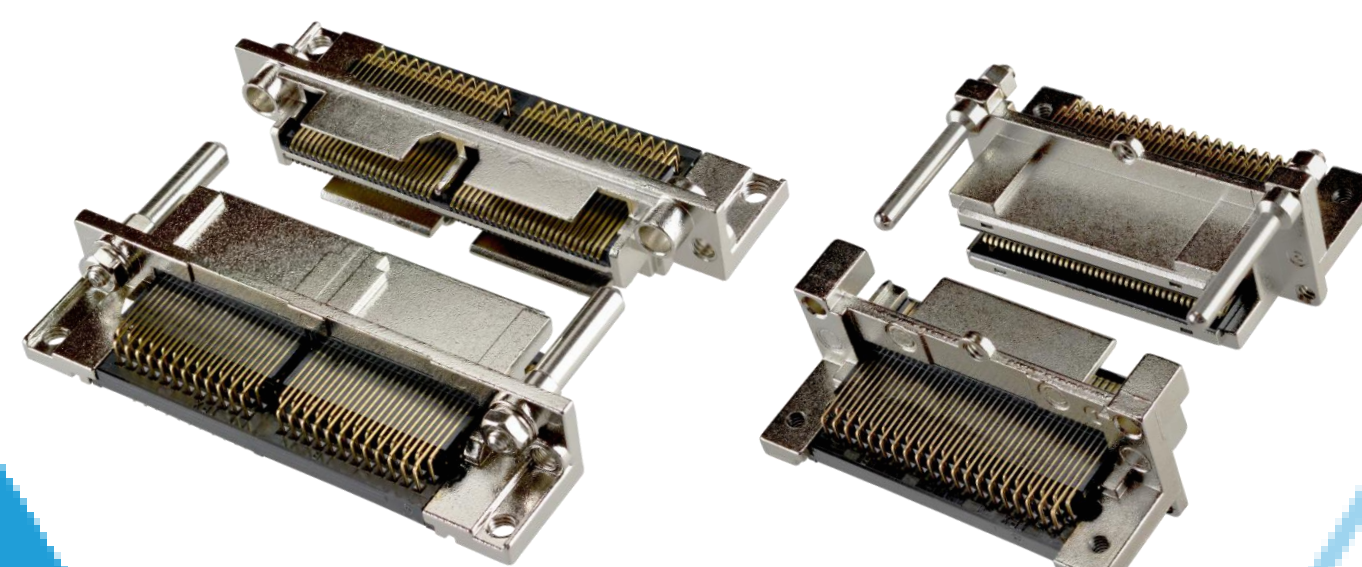
NOVASTACK® series



Board-to-Board Connectors

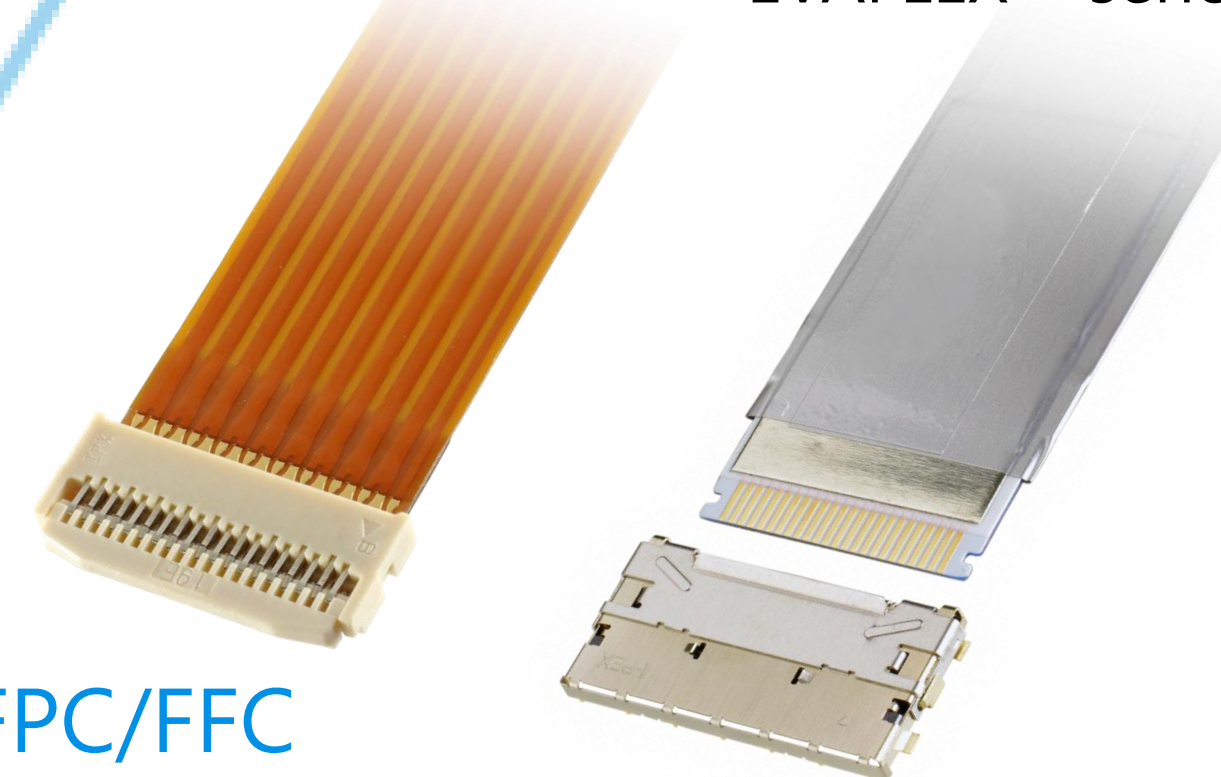


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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