

CABLINE®-UA II

Slim design suitable for through-hole solution, shielding and multi-point ground, 0.3 mm pitch, Right angle vertical mating type micro-coaxial connector



Product Specifications:

Mating type	Right angle vertical
Board Pitch (mm)	0.6
Wiping Length (mm)	0.3
Mated size (mm)	Height 1.27 +/- 0.1
	Width 5.0 + (0.3 * ?p)
	Depth 2.9
Pin Counts	Range Up to 50
	Available 26, 32, 40, 50

Applicable Cable Size:

Maximum O.D. (mm)	0.3
Micro-Coaxial for Signal (AWG)	45ohm : #42 or smaller 50ohm : #44 or smaller
Twin Coaxial (AWG)	-
Discrete (AWG)	#39 or smaller

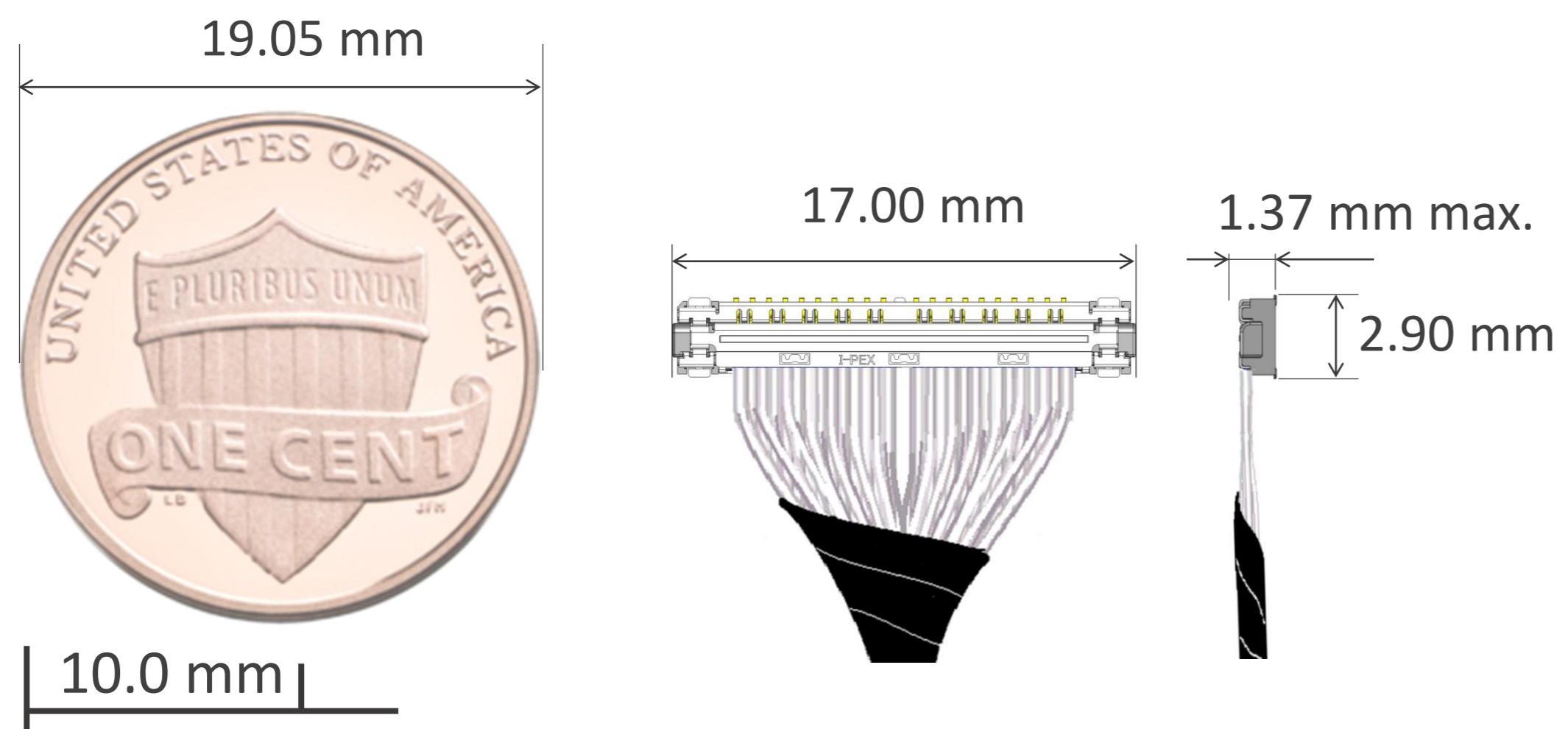
Applicable Standards (Reference Only):

USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)
HDMI 1.3 (3.4 Gbps)

* Please inquire for pin counts not listed or outside of the pin count range.

► Suitable for small connector spaces

CABLINE-UA II 40p size is smaller than a one-cent coin.

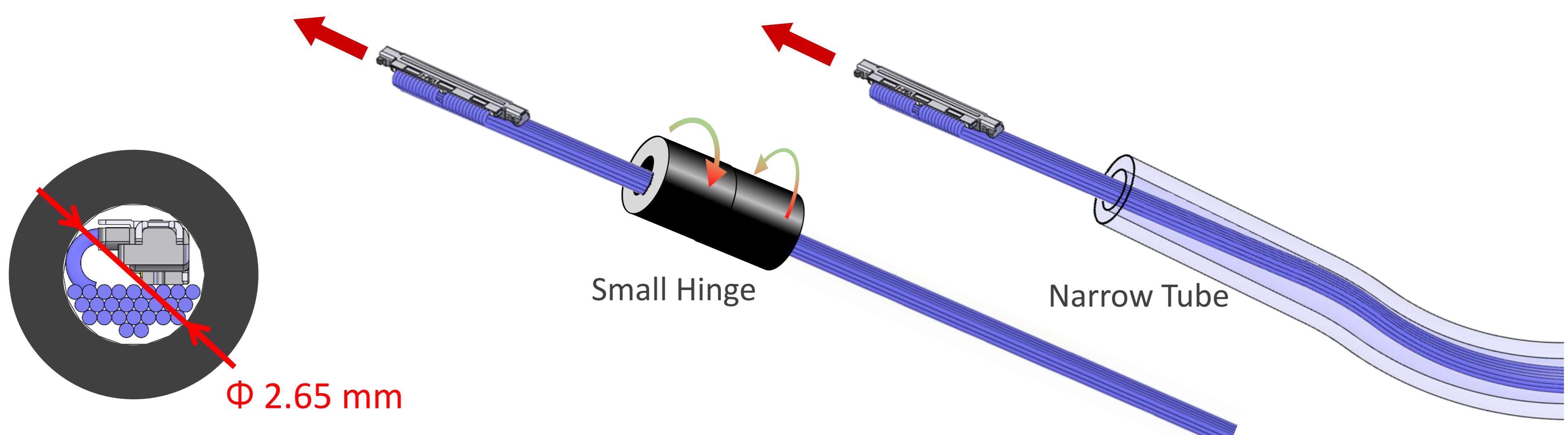


Flexible micro-coaxial cable harness is suitable for small applications with hinge design.

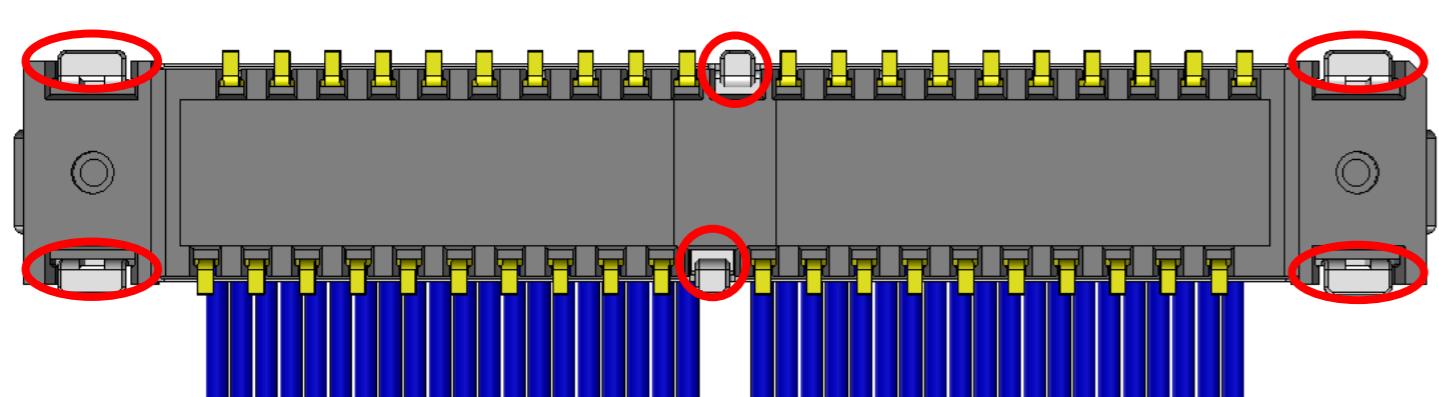
► Slim plug design, suitable for through-hinge assemblies

Simulation Reference Example:

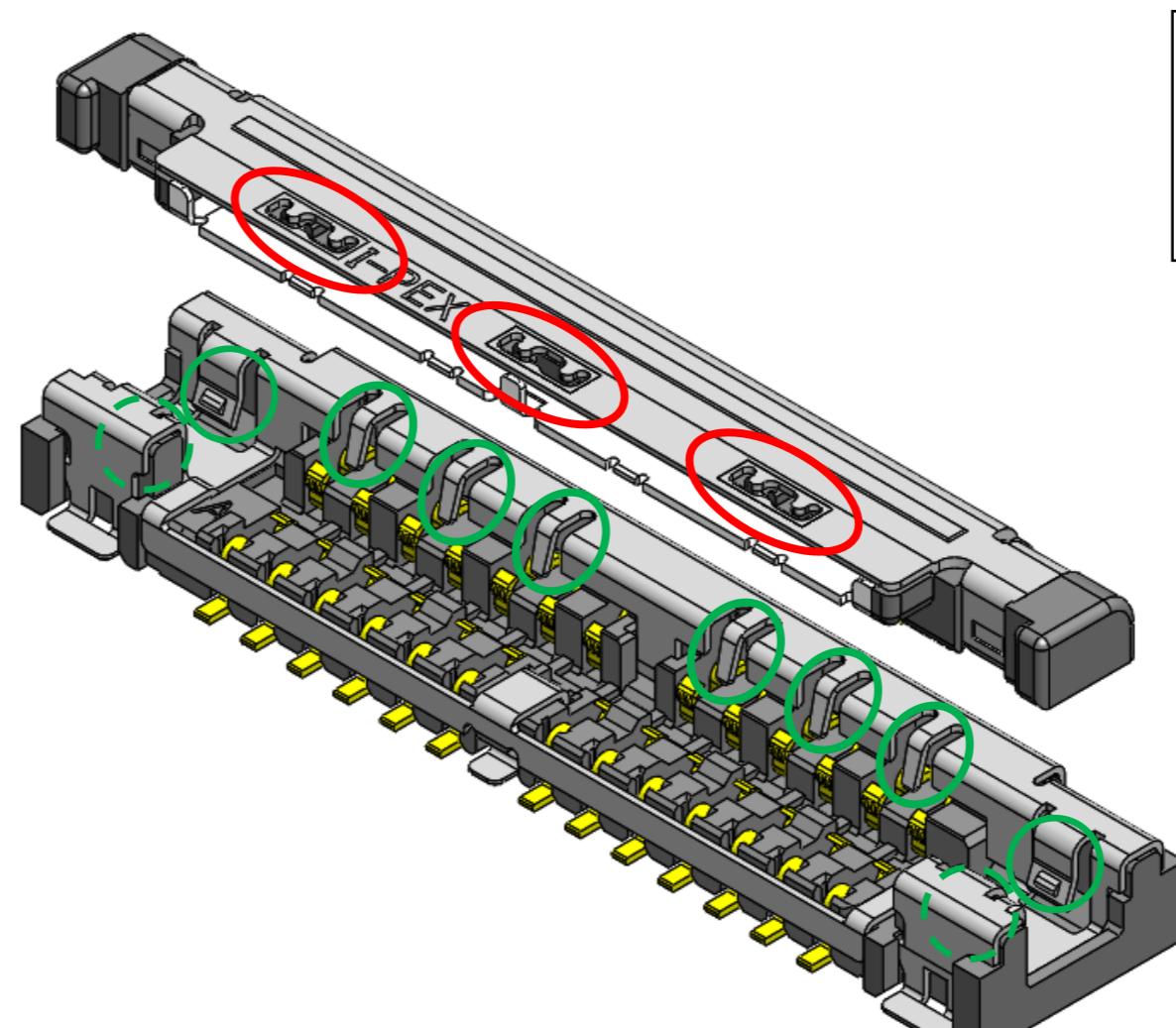
UA II 26p plug with 0.29 mm cable outer diameter harness can go through 2.65 mm inner diameter.



► EMI shielding and multi-point ground design



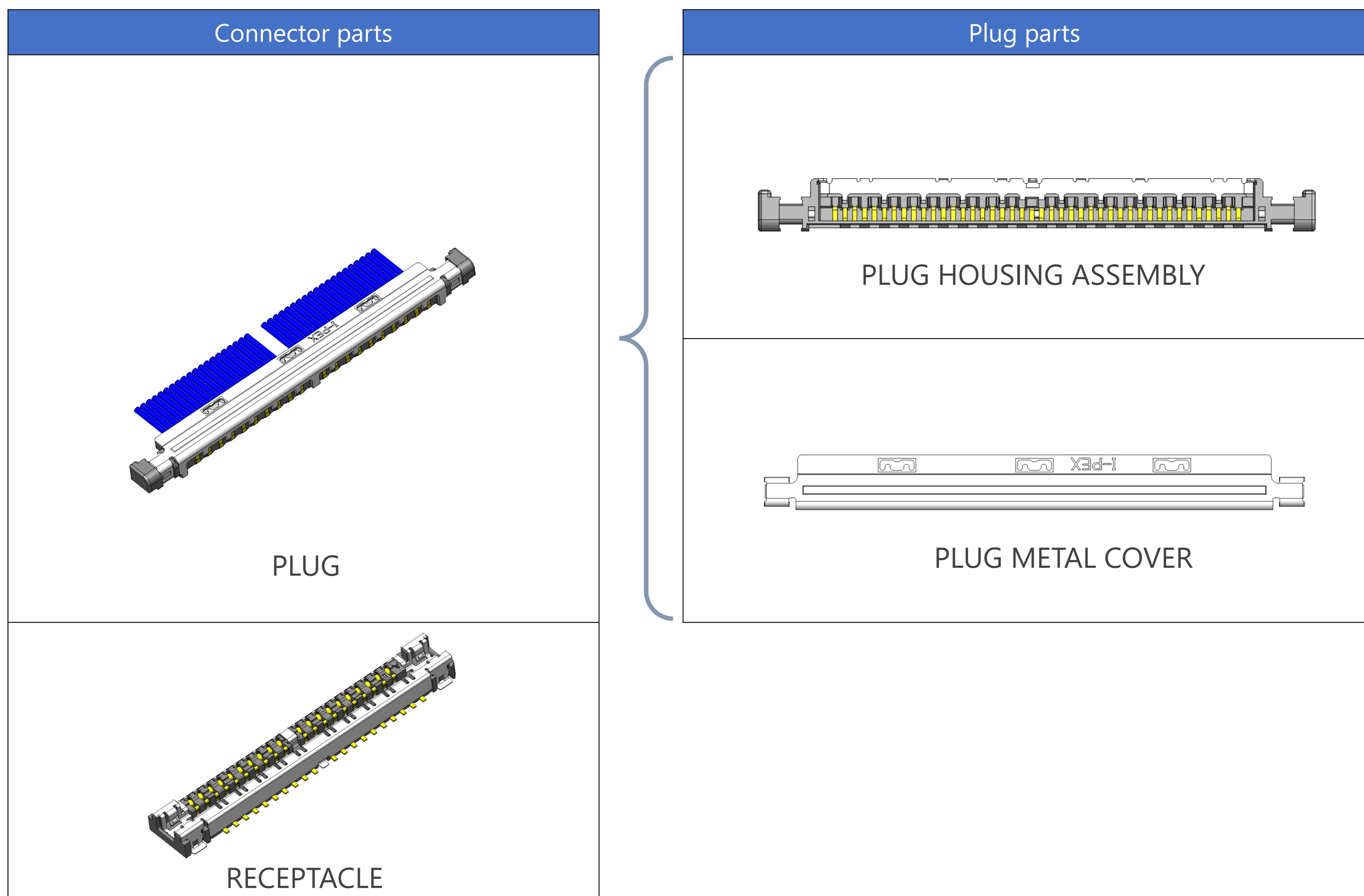
View From Underside



○	Soldered contacts
○	Mechanical contacts

Component Parts Details

Component Parts



Rev.#

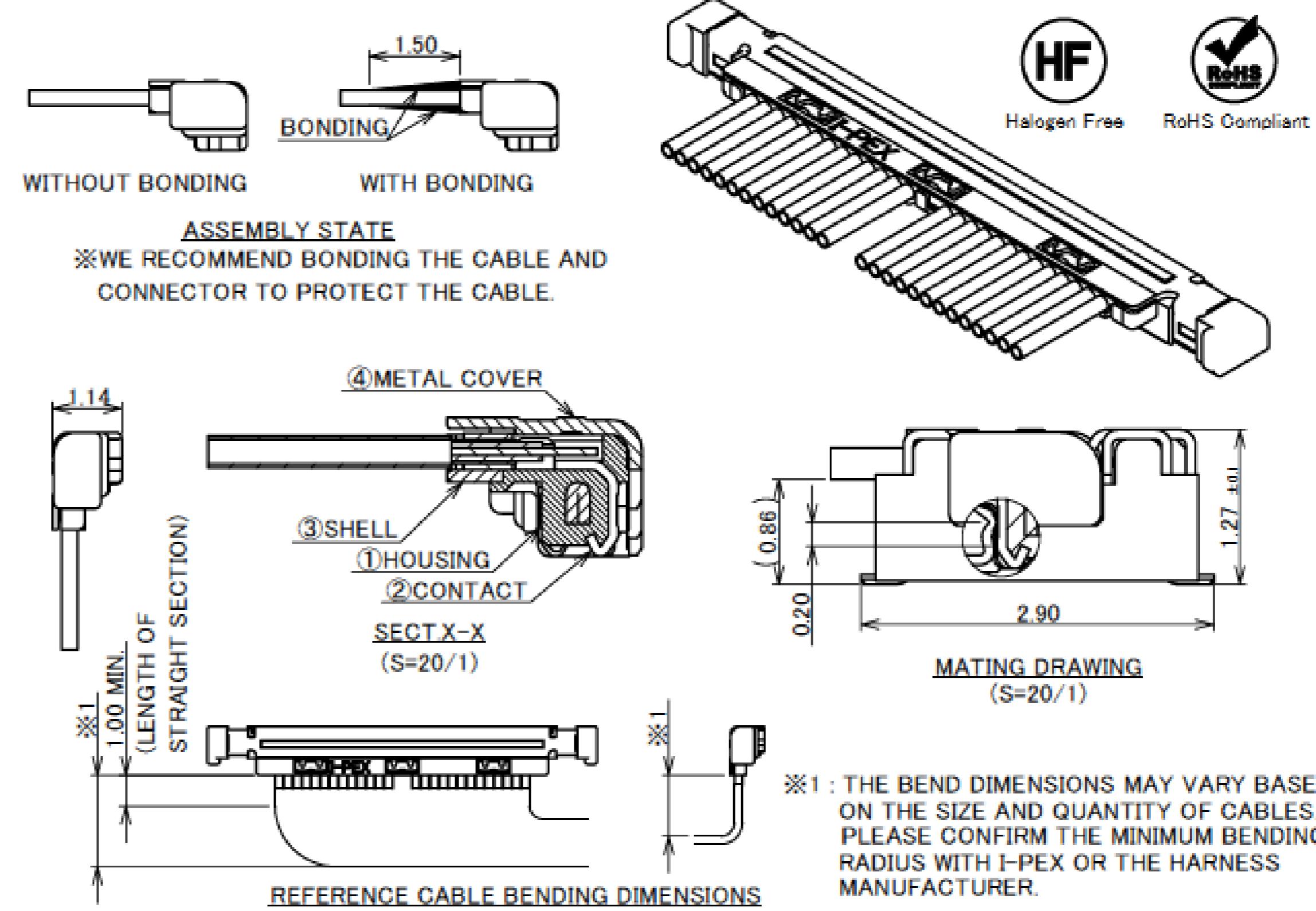
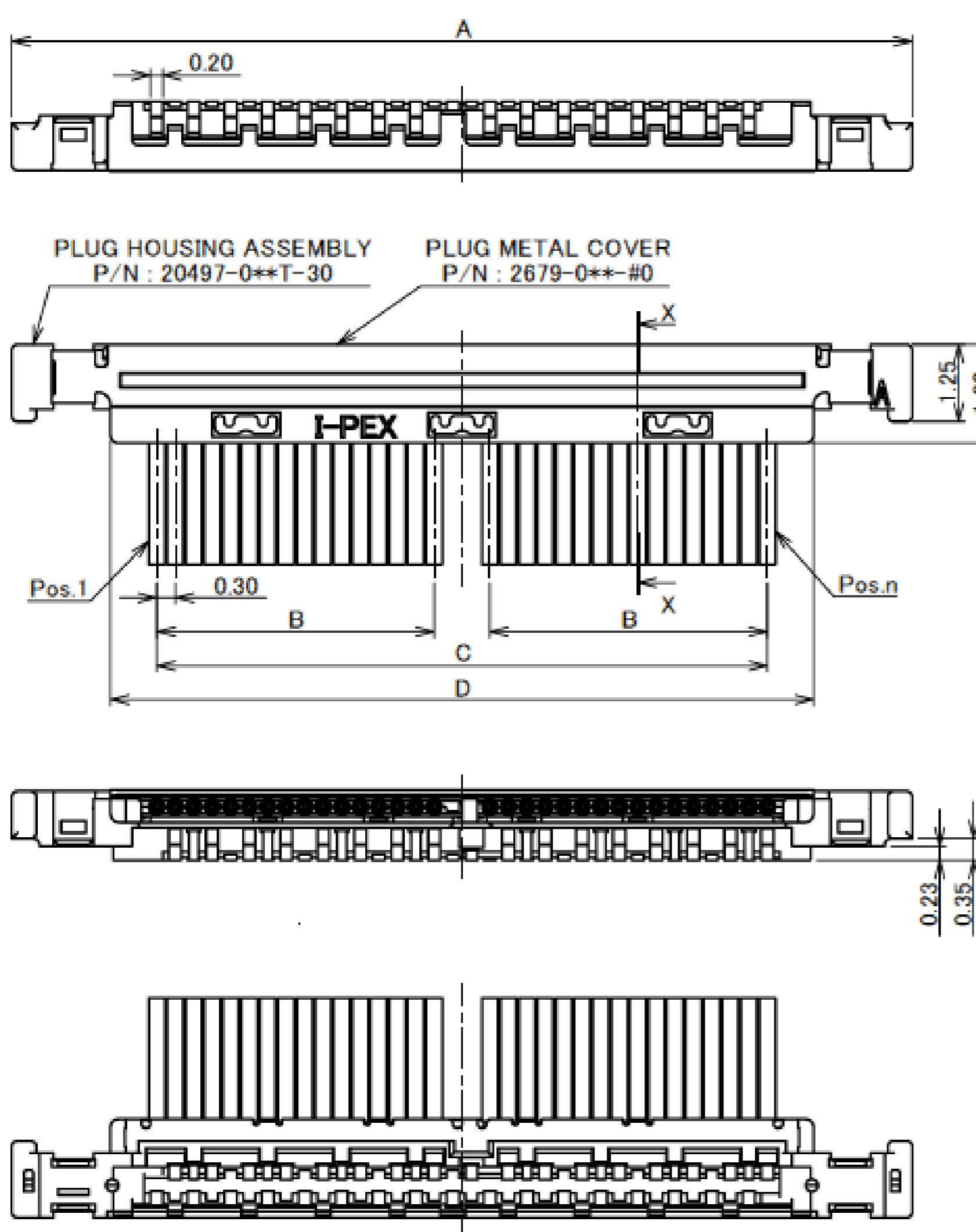
Plug for Cable Assembly

Recommended P/N		20496-0**-40			
PART No.	POS.	A	B	C	D
20496-026-#0	26	12.8	3.6	8.1	9.6
20496-032-#0	32	14.6	4.5	9.9	11.4
◆ 20496-034-#0	34	15.2	4.8	10.5	12.0
20496-040-#0	40	17.0	5.7	12.3	13.8
20496-050-#0	50	20.0	7.2	15.3	16.8

◆ MARK MEANS NOT AVAILABLE

20496-0**-#0
Pos.
3: METAL COVER Au PLATING
4: METAL COVER Sn PLATING

PART COMBINATION TABLE			
PLUG CABLE ASSEMBLY	HOUSING ASSEMBLY	METAL COVER	RECEPTACLE ASSEMBLY
20496-0**-30	20497-0**-T-30	2679-0**-00	20498-0**E-3#
20496-0**-40	20497-0**-T-40	2679-0**-10	20498-0**E-4#



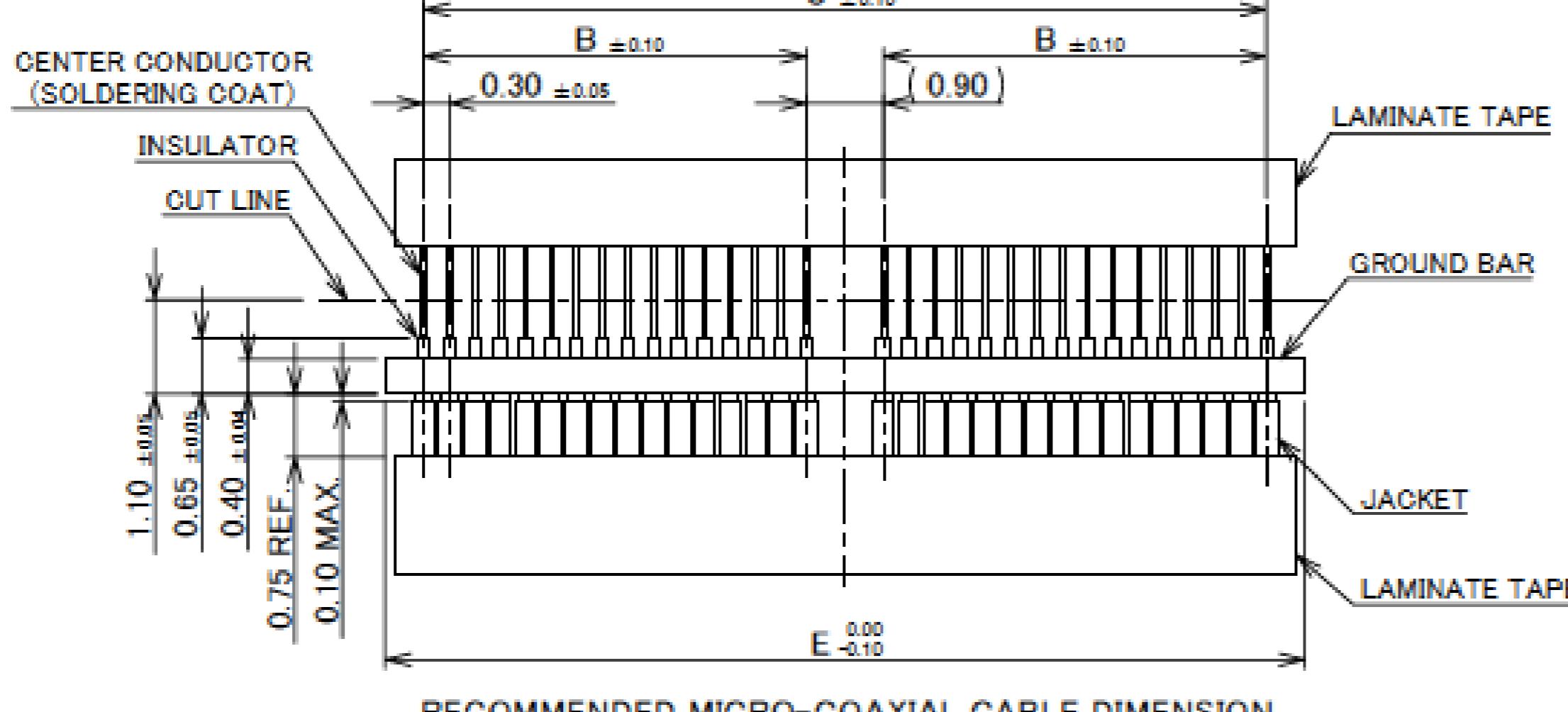
※1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
4	METAL COVER	STAINLESS STEEL	P/N 20496-0**-30: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN. P/N 20496-0**-40: Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN.
3	SHELL	PHOSPHOR BRONZE	Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.10 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

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PART No.	POS.	B	C	E
20496-026-#0	26	3.6	8.1	9.0
20496-032-#0	32	4.5	9.9	10.8
◆ 20496-034-#0	34	4.8	10.5	11.4
20496-040-#0	40	5.7	12.3	13.2
20496-050-#0	50	7.2	15.3	16.2

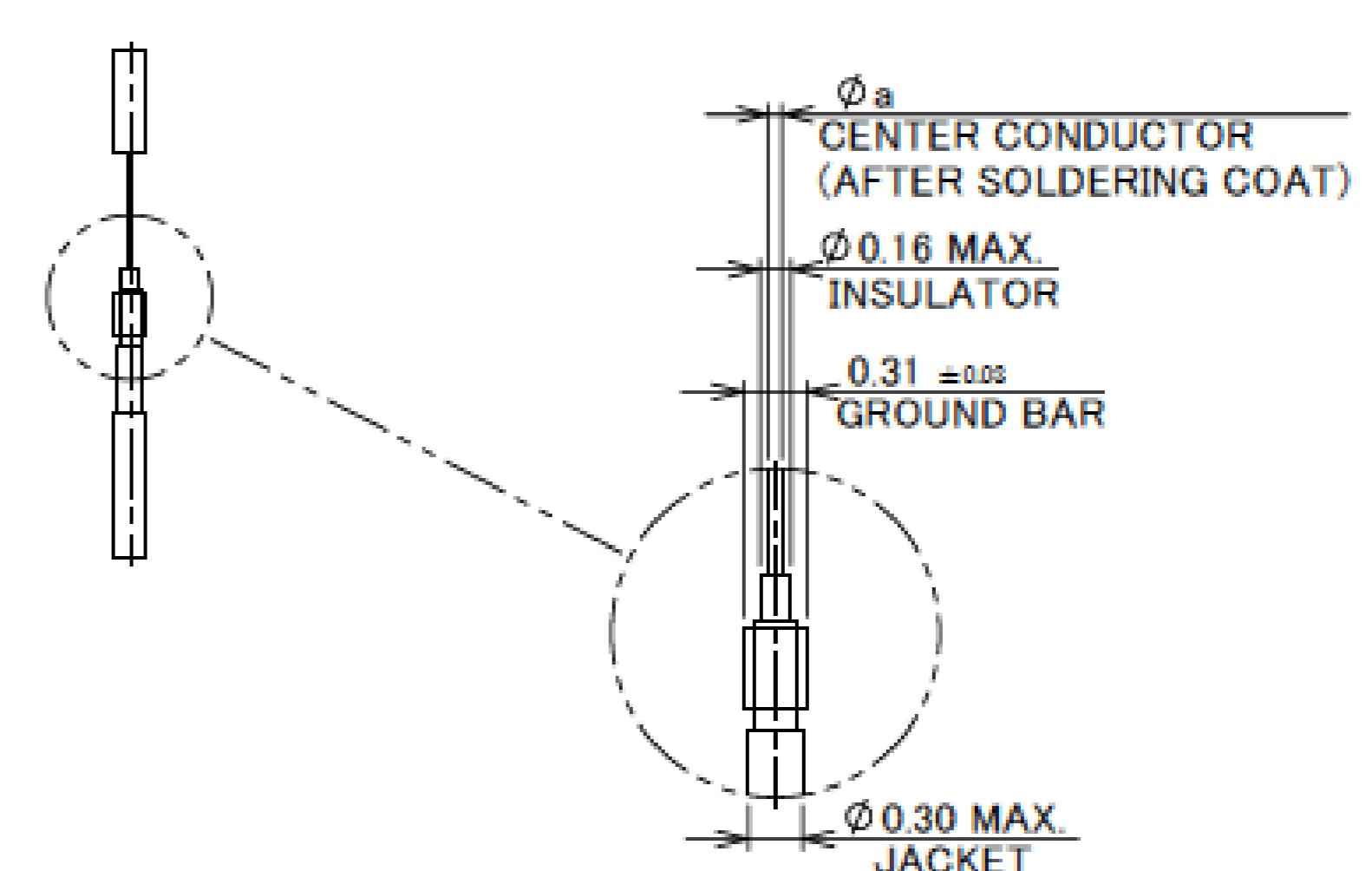
◆ MARK MEANS NOT AVAILABLE



RECOMMENDED MICRO-COAXIAL CABLE DIMENSION

MICRO-COAXIAL CABLE DIMENSION

	a
#42	Ø 0.075
#44	Ø 0.063
#46	Ø 0.048

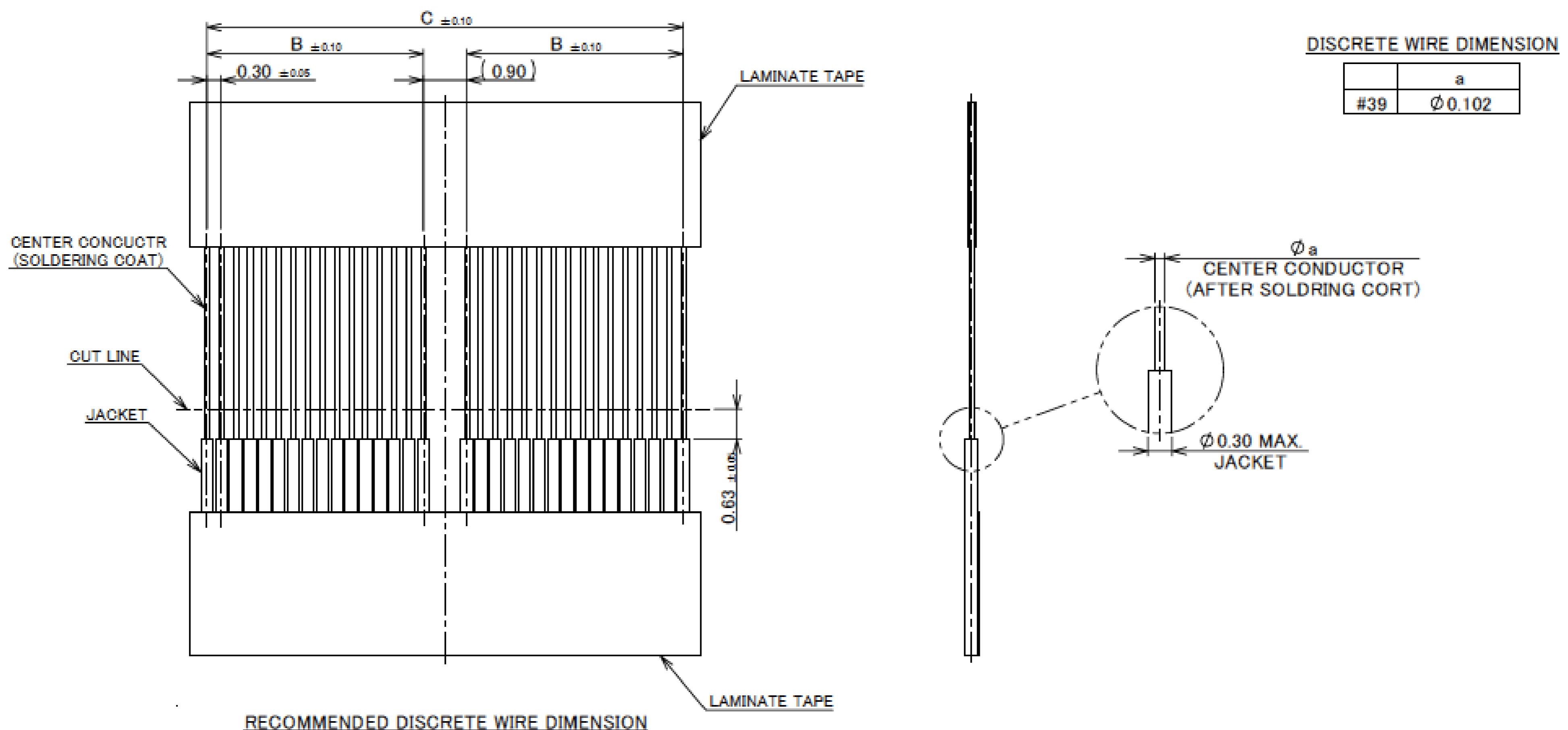


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Plug for Cable Assembly

PART No.	POS.	B	C
20496-026-#0	26	3.6	8.1
20496-032-#0	32	4.5	9.9
◆ 20496-034-#0	34	4.8	10.5
20496-040-#0	40	5.7	12.3
20496-050-#0	50	7.2	15.3

◆ MARK MEANS NOT AVAILABLE



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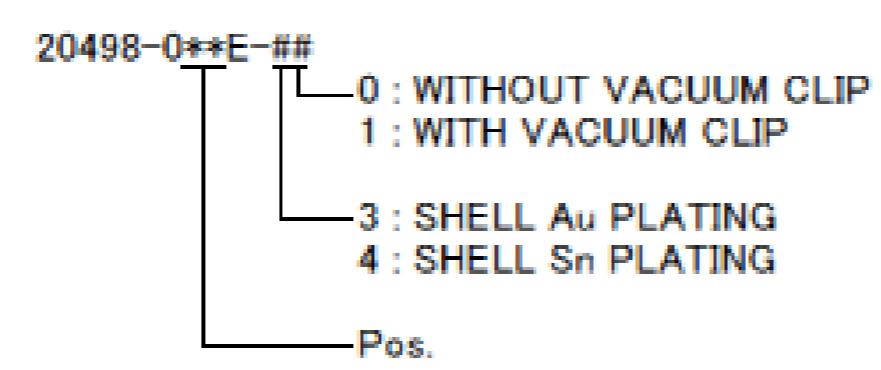
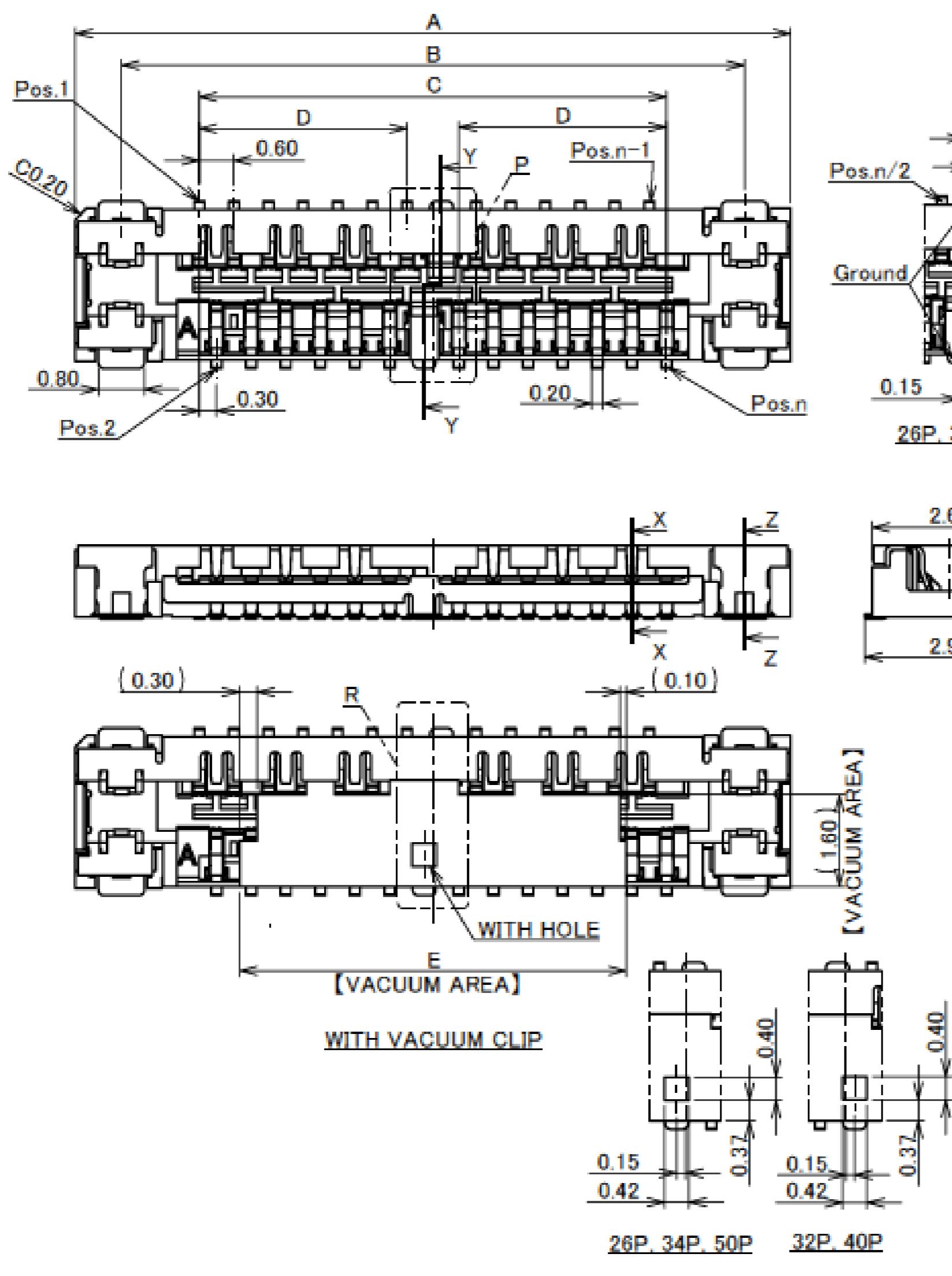
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 46 , 44 , 42 DISCRETE WIRE : AWG# 39
RATING VOLTAGE	50V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 10 CONTACTS) 0.15A AC/DC [AWG#46] 0.19A AC/DC [AWG#44] 0.20A AC/DC [AWG#42]
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : △40mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : △40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / 20 CYCLES)	26P : 28.0N MAX. 32P : 34.5N MAX. 40P : 40.0N MAX. 50P : 50.0N MAX.
UNMATING FORCE (INITIAL / 20 CYCLES)	26P : 3.0N MIN. 32P : 3.0N MIN. 40P : 3.0N MIN. 50P : 3.0N MIN.
CABLE RETENTION FORCE	15.0N MIN. (AWG# 44)
PRODUCT SPECIFICATION	PRS-1469
TEST REPORT	TR-09032
INSTRUCTION MANUAL	HIM-09006
ASSEMBLY MANUAL	ASM-09004
APPEARANCE CRITERIA No.	QLS-A***

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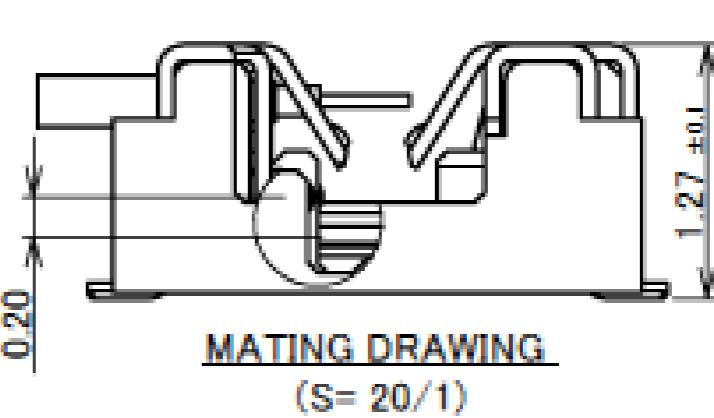
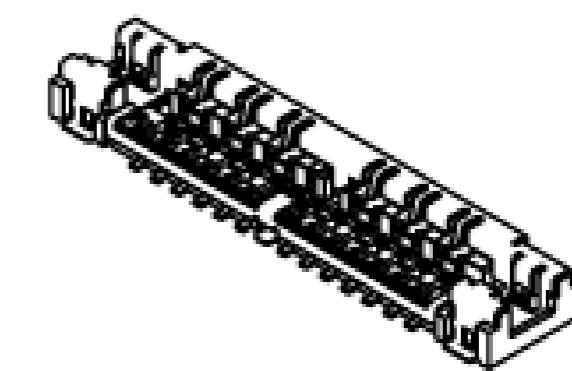
Receptacle Assembly

Recommended P/N	20498-0**E-41					
PART No.	Pos.	A	B	C	D	E
20498-026E-##	26	12.4	10.8	8.1	3.6	6.7
20498-032E-##	32	14.2	12.6	9.9	4.5	10.9
◆ 20498-034E-##	34	14.8	13.2	10.5	4.8	11.5
20498-040E-##	40	16.6	15.0	12.3	5.7	10.9
20498-050E-##	50	19.6	18.0	15.3	7.2	11.5

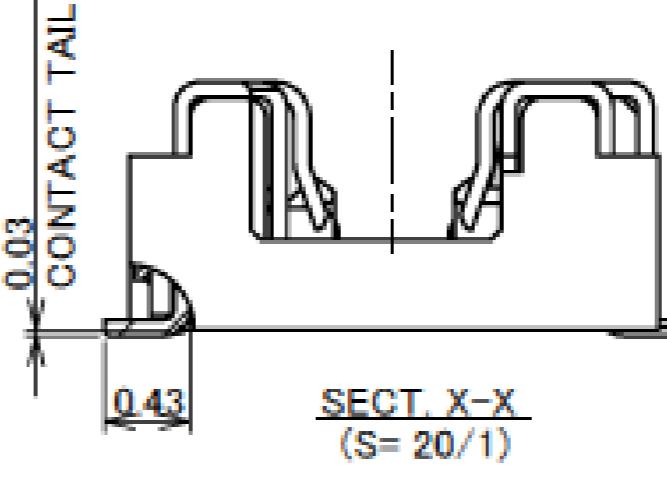
◆ MARK MEANS NOT AVAILABLE



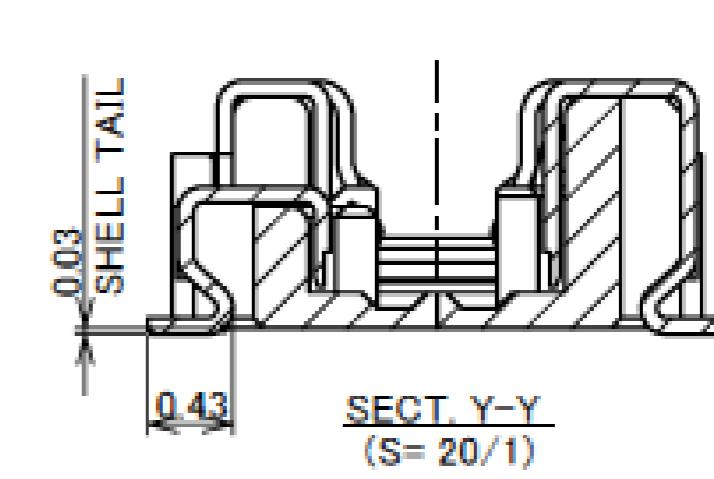
PART COMBINATION TABLE	
RECEPTACLE ASSEMBLY	PLUG CABLE ASSEMBLY
20498-0**E-3#	20496-0**-30
20498-0**E-4#	20496-0**-40



DETAIL P



SECT. X-X



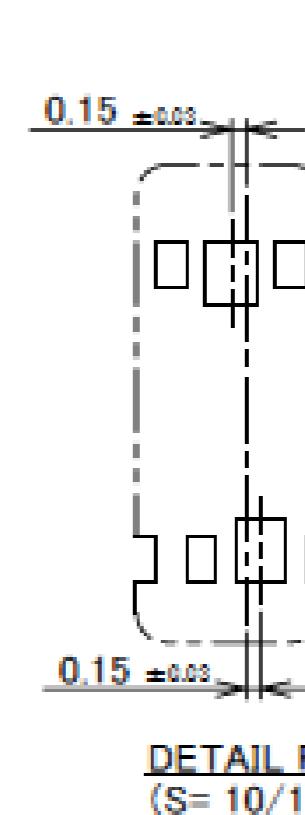
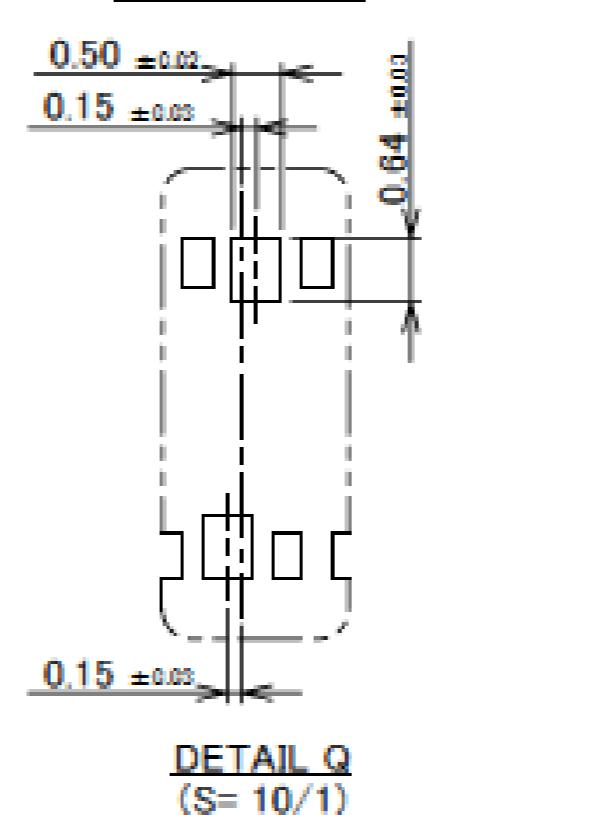
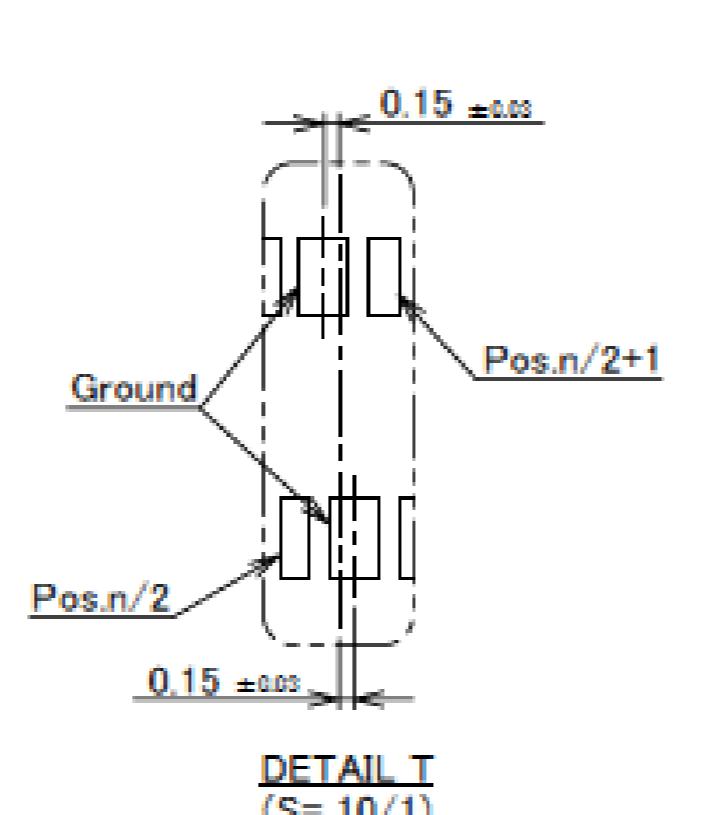
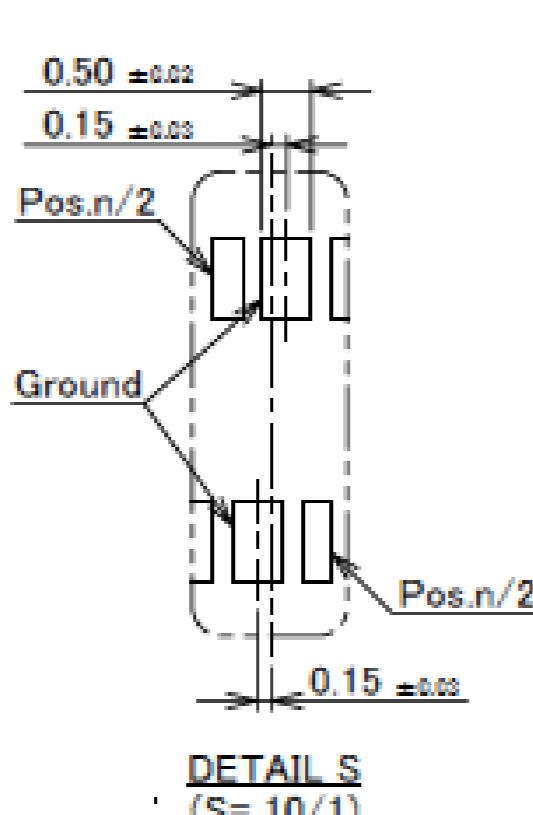
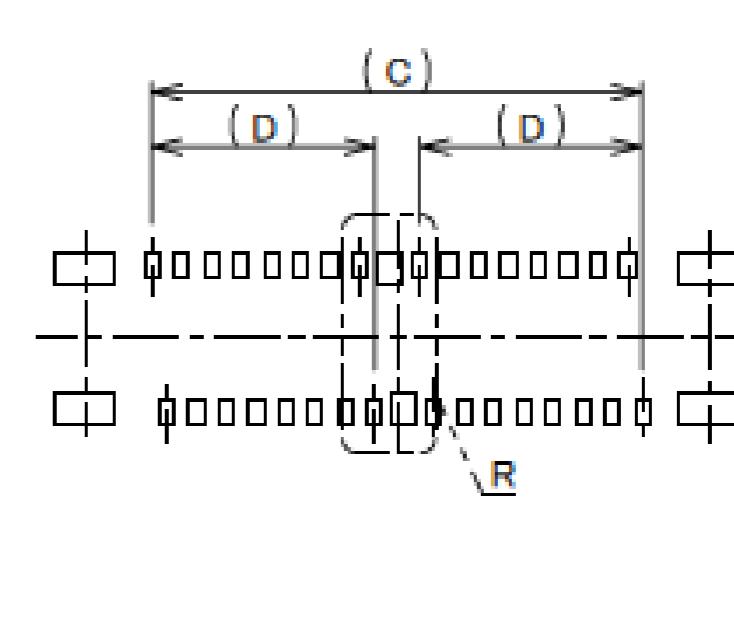
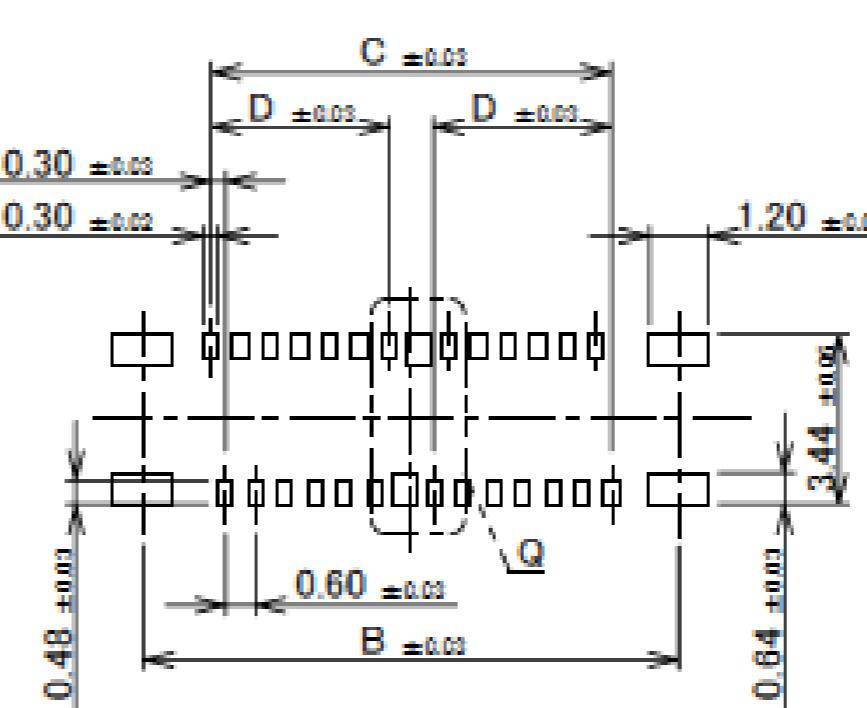
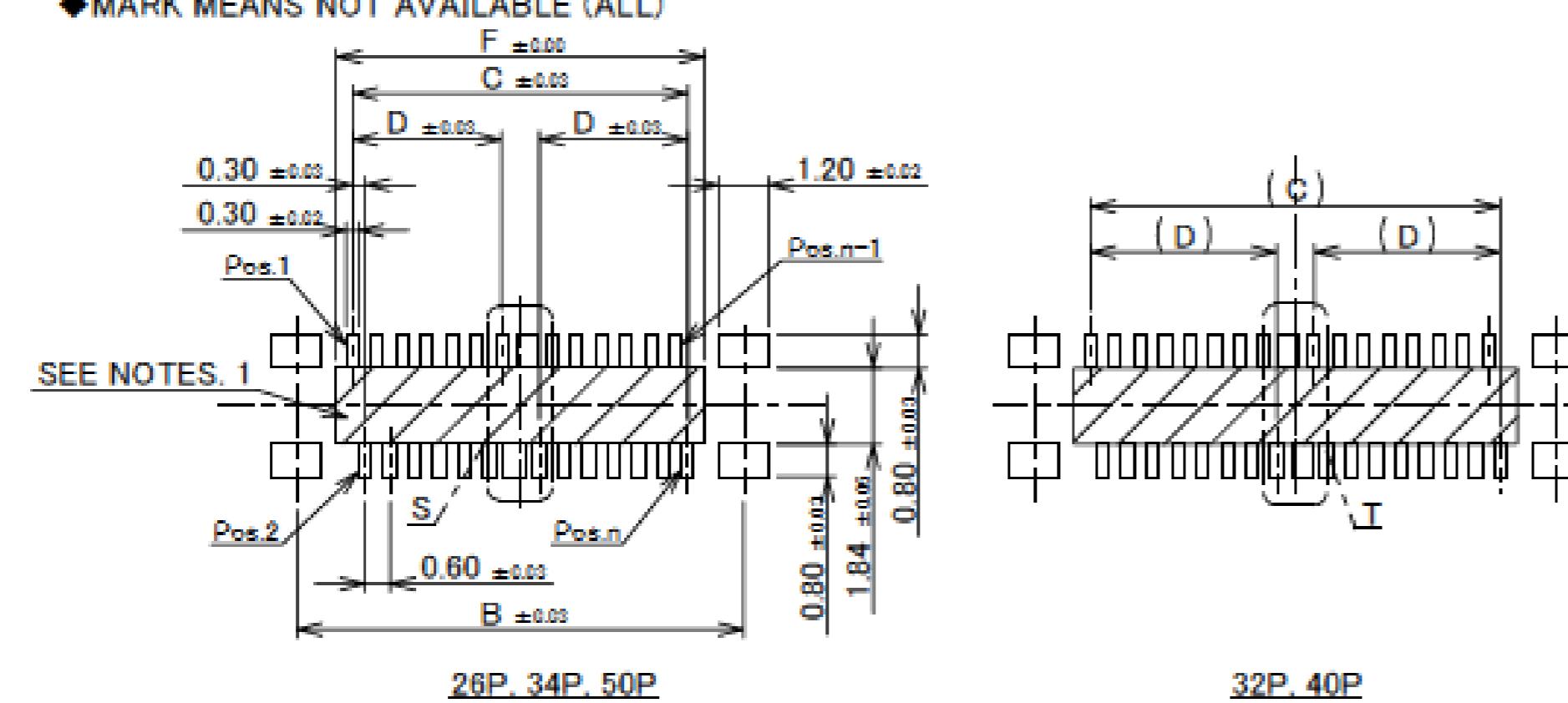
SECT. Y-Y

NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
4	VACUUM CLIP	LCP	UL94V-0
3	SHELL	PHOSPHOR BROMZE	P/N 20498-0**E-3#: Au 0.02 μ m MIN. OVER Ni 1.00 μ m MIN. P/N 20498-0**E-4#: Sn 2.00 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT AREA : Au 0.1 μ m MIN. SOLDERING AREA : Au 0.05 μ m MIN.
1	HOUSING	LCP	UL94V-0

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PART No.	Pos.	A	B	C	D	F
20498-026E-##	26	12.4	10.8	8.1	3.6	8.9
20498-032E-##	32	14.2	12.6	9.9	4.5	10.7
◆ 20498-034E-##	34	14.8	13.2	10.5	4.8	11.5
20498-040E-##	40	16.6	15.0	12.3	5.7	13.1
20498-050E-##	50	19.6	18.0	15.3	7.2	16.1

◆ MARK MEANS NOT AVAILABLE (ALL)



RECOMMENDED FOOTPRINT PATTERN LAYOUT

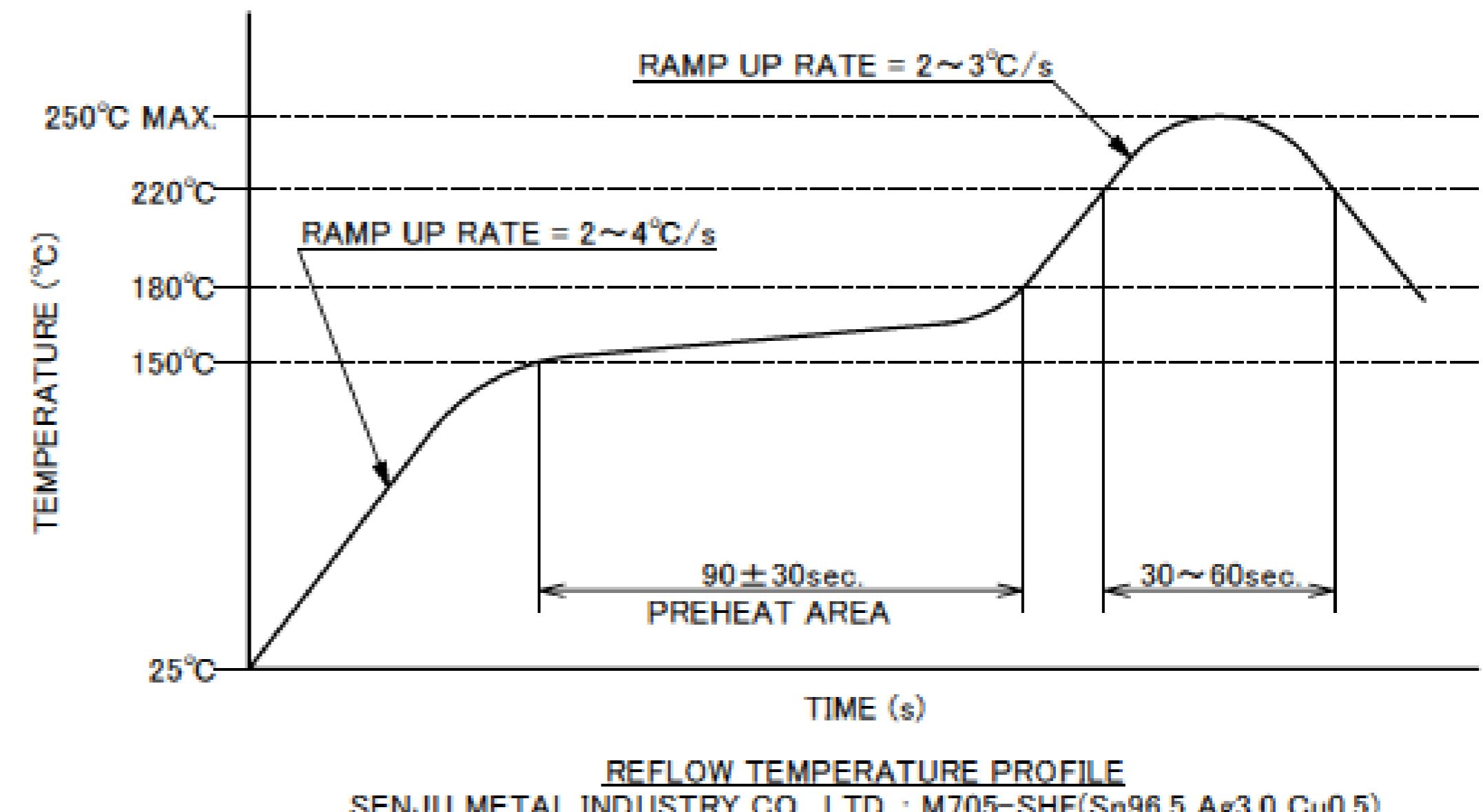
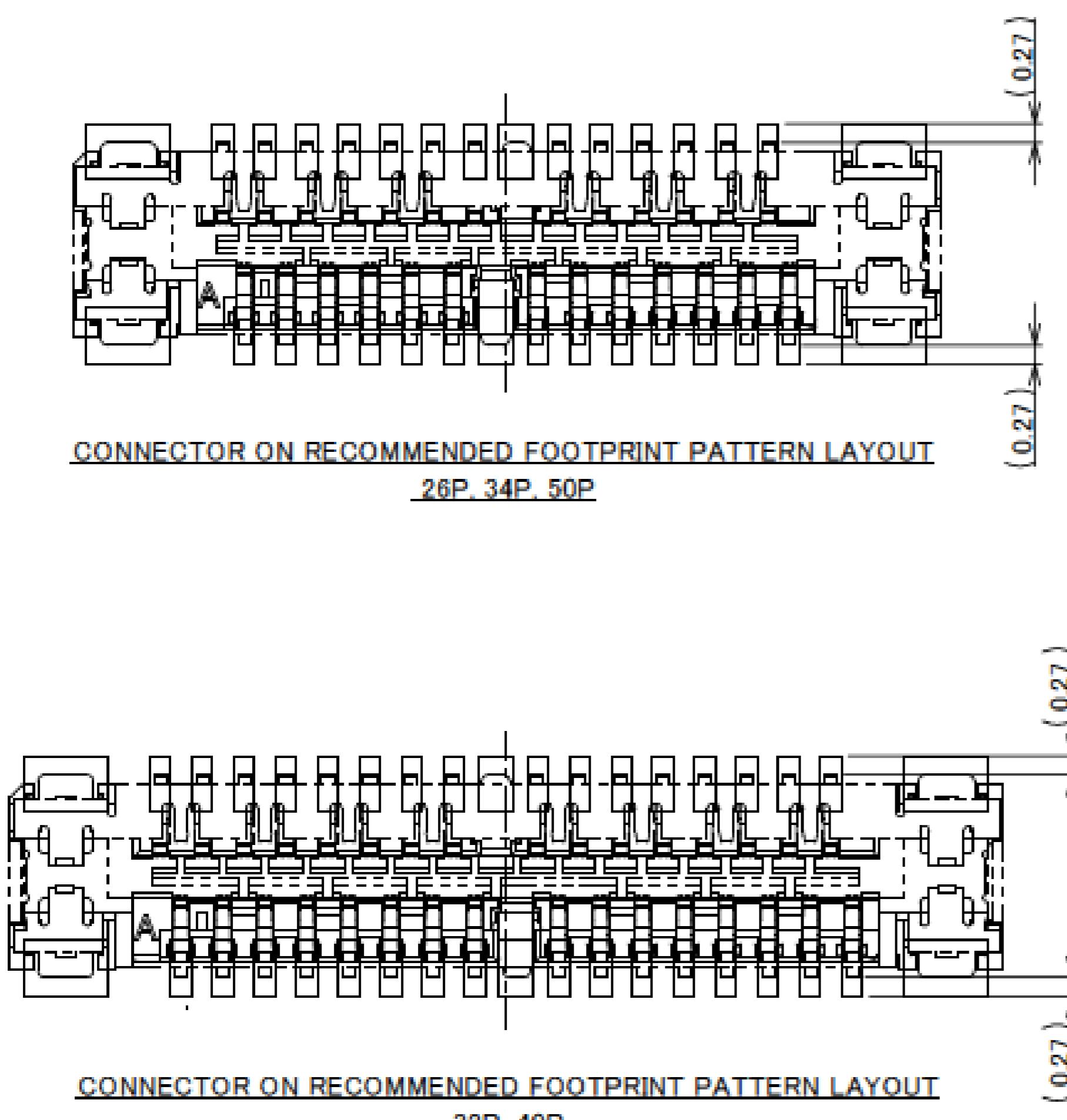
RECOMMENDED FOOTPRINT METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12 mm

NOTES.

1. SOLDER RESIST MUST BE APPLIED TO THIS AREA

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Receptacle Assembly



Rev.19

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 46, 44, 42 DISCRETE WIRE : AWG# 39
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 10 CONTACTS) 0.20A AC/DC [AWG#42] 0.19A AC/DC [AWG#44] 0.15A AC/DC [AWG#46] ※ TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K (-40°C ~ +85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : △40mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : △40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / 20 CYCLES)	26P : 28.0N MAX. 32P : 34.5N MAX. 40P : 40.0N MAX. 50P : 50.0N MAX.
UNMATING FORCE (INITIAL / 20 CYCLES)	26P : 3.0N MIN. 32P : 3.0N MIN. 40P : 3.0N MIN. 50P : 3.0N MIN.
COPLANARITY	0.10MAX
CABLE RETENTION FORCE	15.0N MIN. (AWG# 44)
PRODUCT SPECIFICATION	PRS-1469
TEST REPORT	TR-09032
PACKING STANDARD	300-697
INSTRUCTION MANUAL	HIM-09006
ASSEMBLY MANUAL	ASM-09004
APPEARANCE CRITERIA No.	QLS-A***

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Custom Connectors Available



RF
Connector

MHF® series



CABLINE® series



Micro-coaxial/Twinax/
Discrete Wire Connector

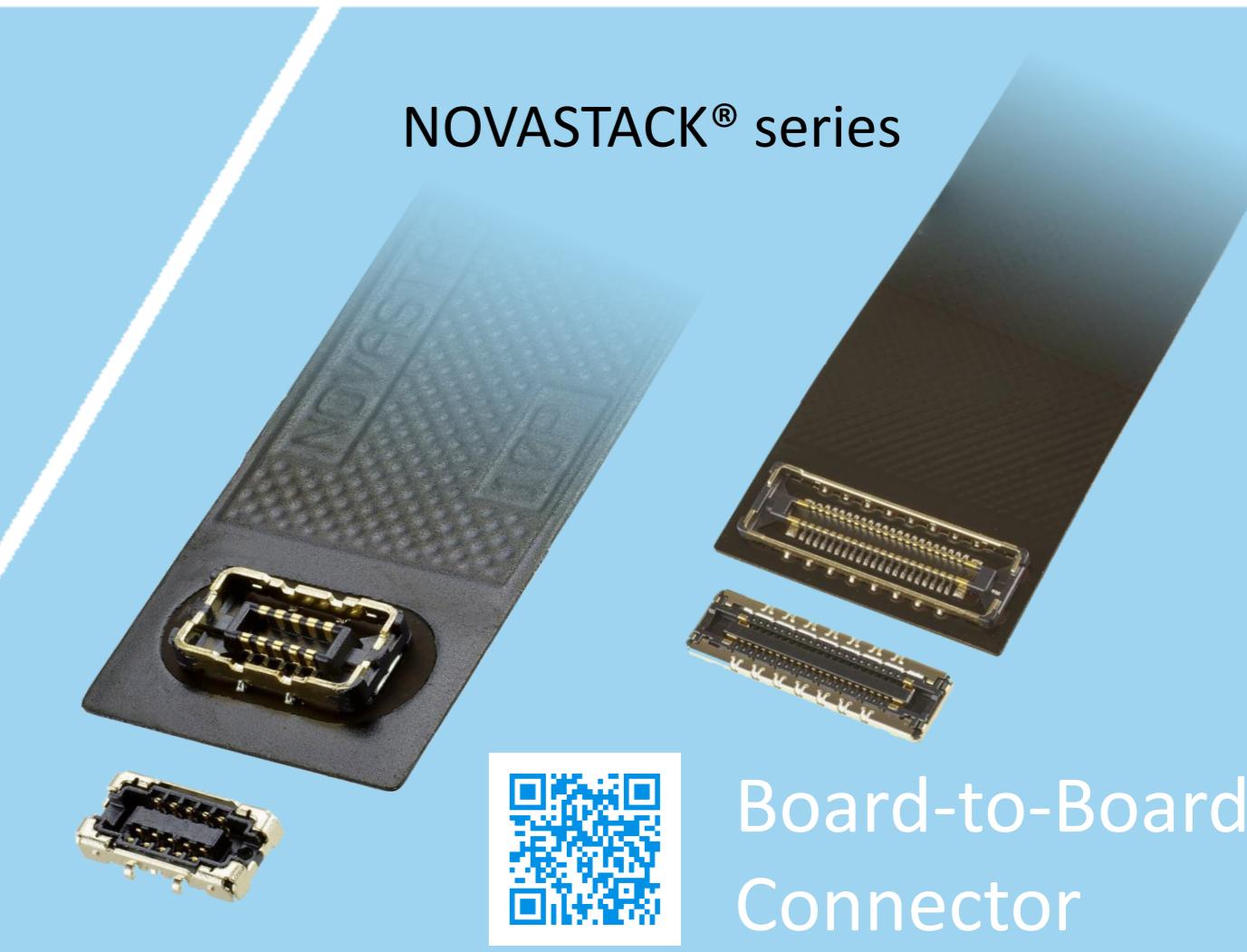


Optical
Module

LIGHTPASS® series



NOVASTACK® series



Board-to-Board
Connector

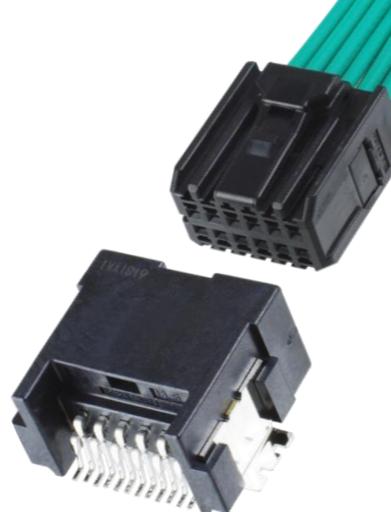


Power Connector/
Terminal

AP series



ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC
Connector



Inquiry



MINIDOCK® series



I/O
Connector

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