# 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

**Applicable Cable Size:** 

HDMI 1.3 (3.4 Gbps)

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)		
(111111)	Depth	2.9		
Pin Counts	Range	Up to 50		
	Available	26, 32, 40, 50		

Maximum O.D. (mm)	0.3		
Micro-Coaxial	45ohm: #42 or smaller		
for Signal (AWG)	50ohm: #44 or smaller		
Twin Coaxial (AWG)	-		
Discrete (AWG)	#39 or smaller		
Applicable Standards (Reference Only):			
IISB 3 1 Gen 1 (5 Ghns) V-By-One HS 1 4 (4 Ghns)			

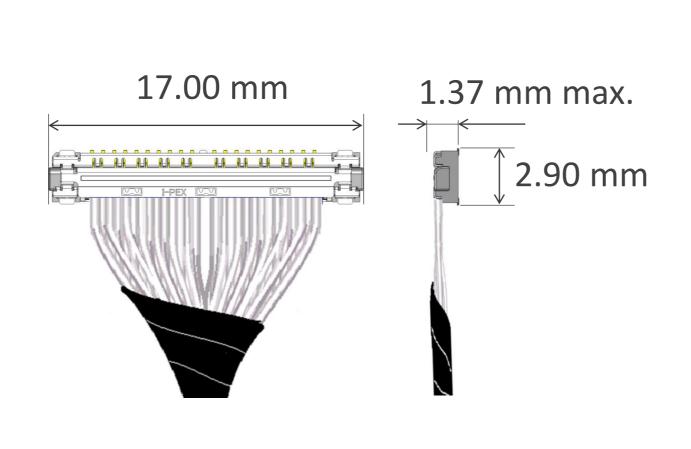
<sup>\*</sup> Please inquire for pin counts not listed or outside of the pin count range.

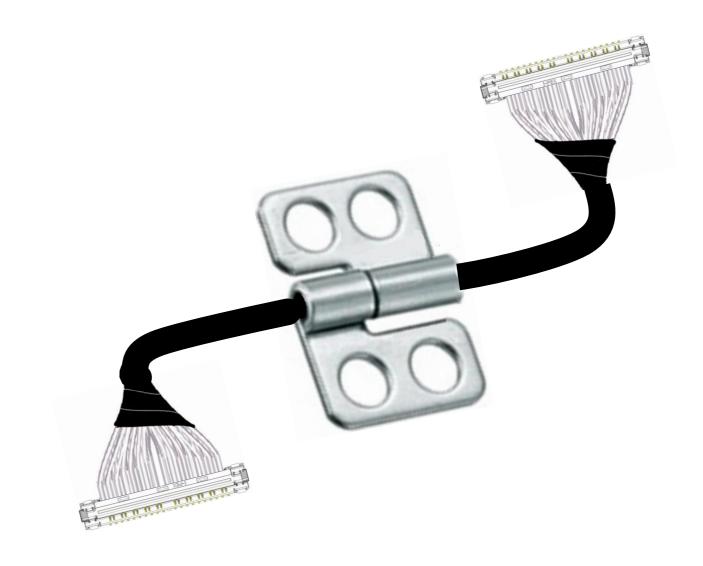


### Suitable for small connector spaces

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





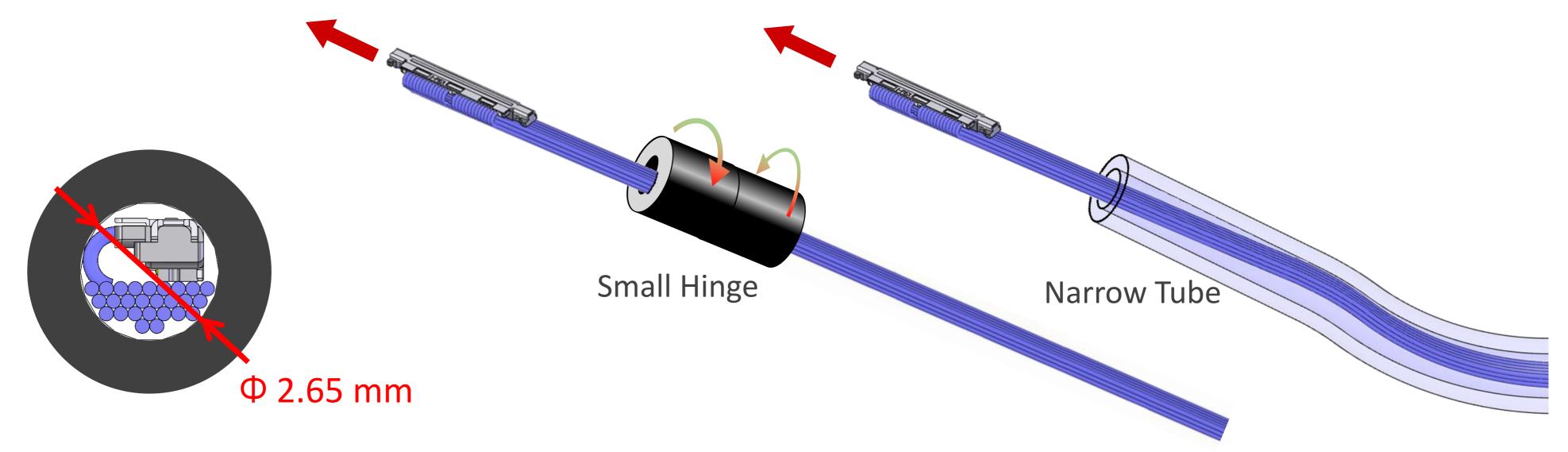


Flexible micro-coaxial cable harness is suitable for small applications with hinge design.

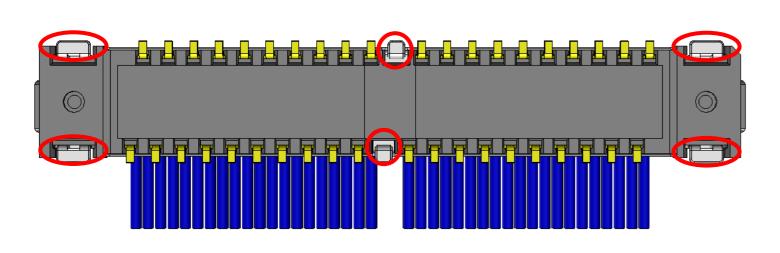
# > Slim plug design, suitable for through-hinge assemblies

Simulation Reference Example:

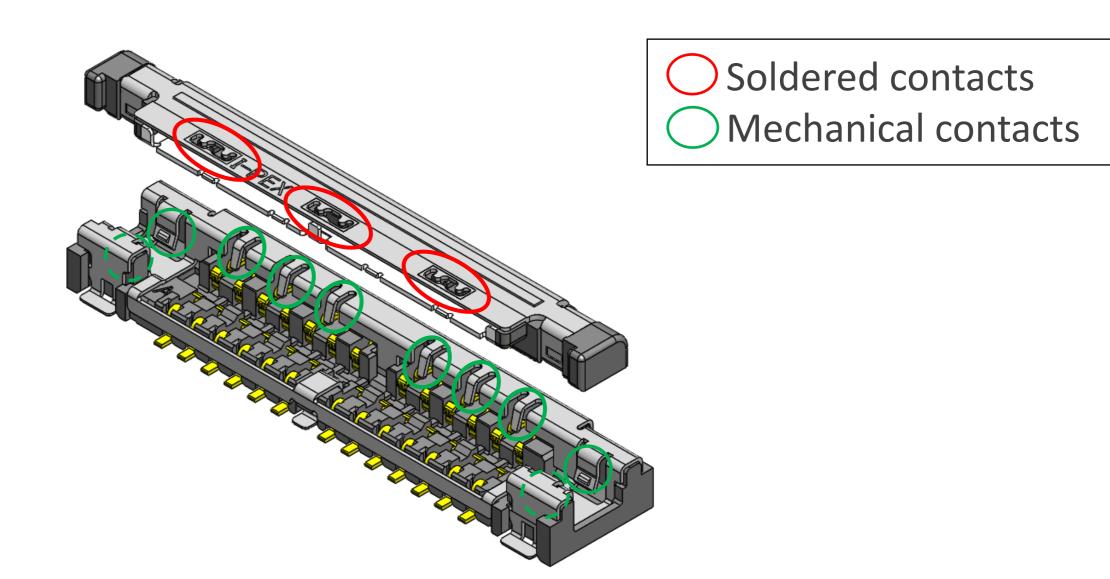
UAII 26p plug with 0.29 mm cable outer diameter harness can go through 2.65 mm inner diameter.



# EMI shielding and multi-point ground design



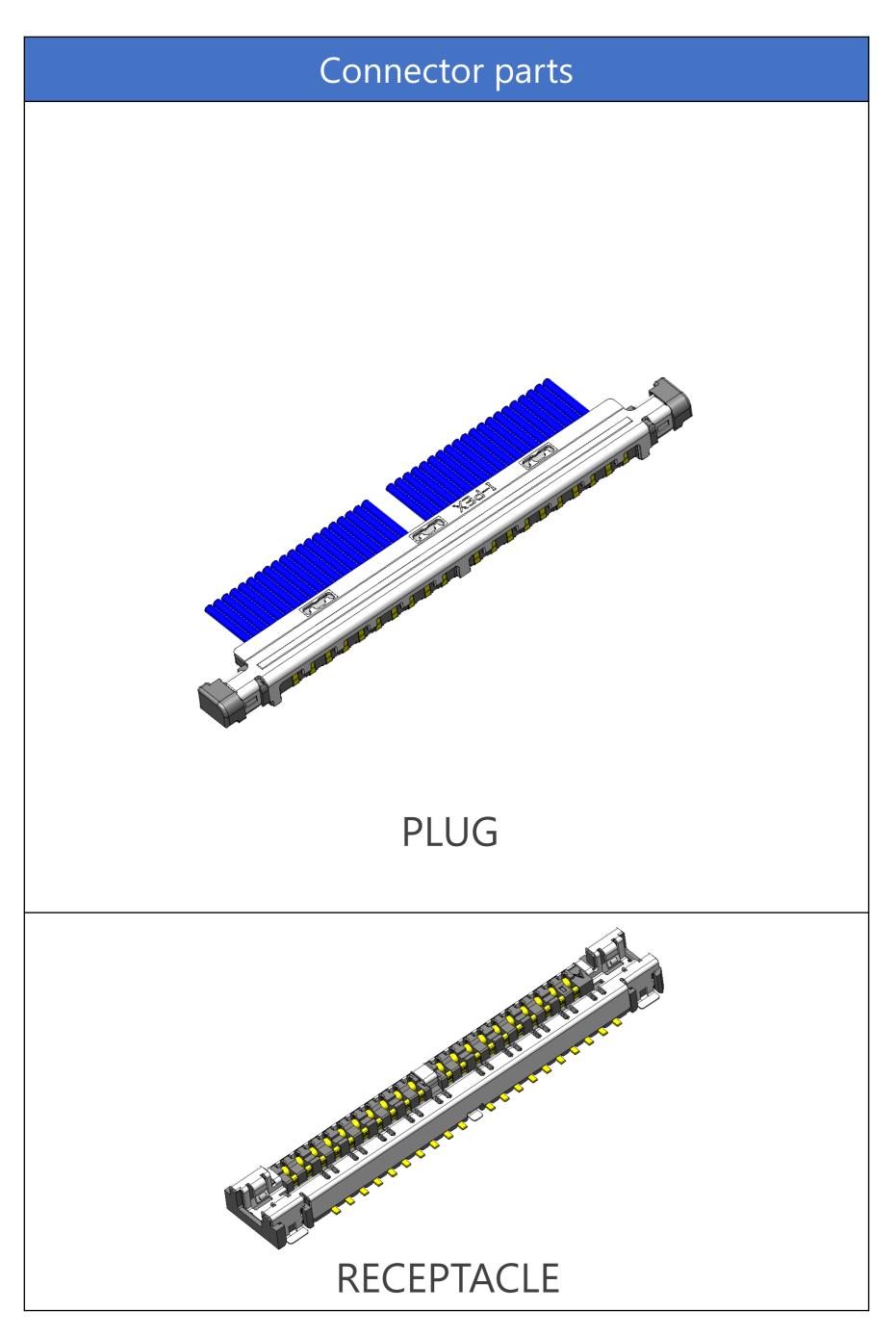
View From Underside

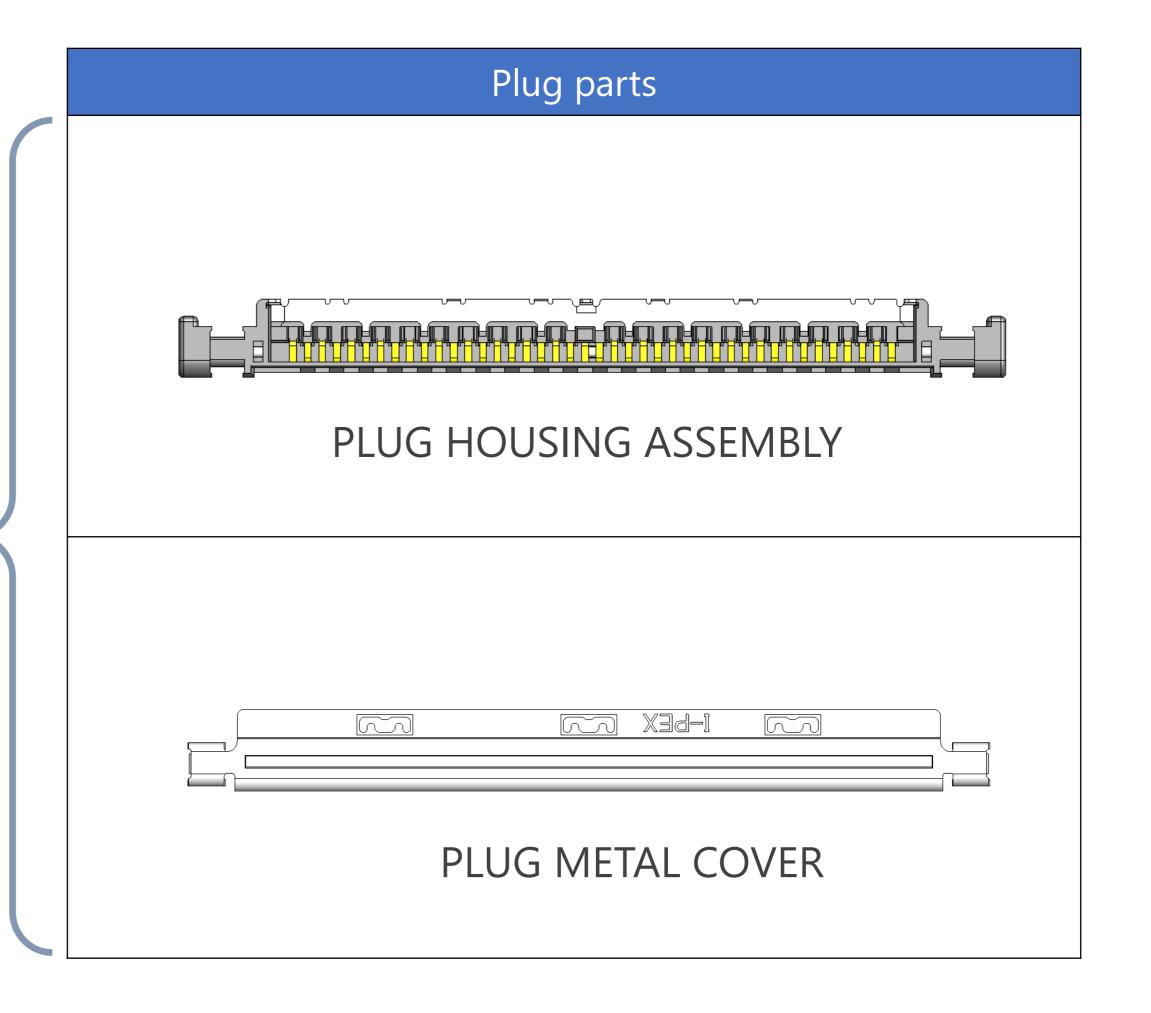




# Component Parts Details

# **Component Parts**





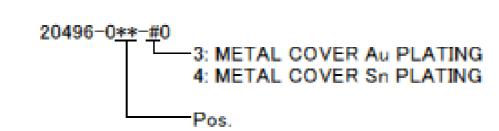
Rev.#



# Plug for Cable Assembly

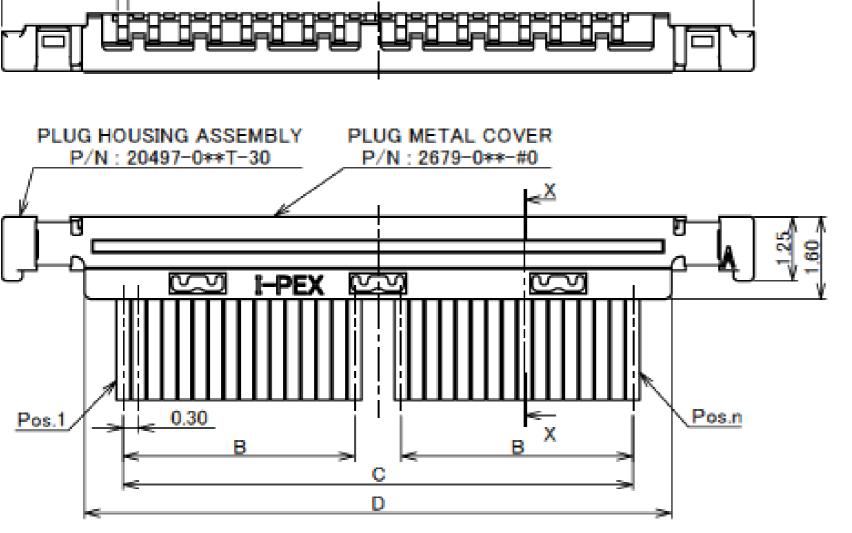
**◆MARK MEANS NOT AVAILABLE** 

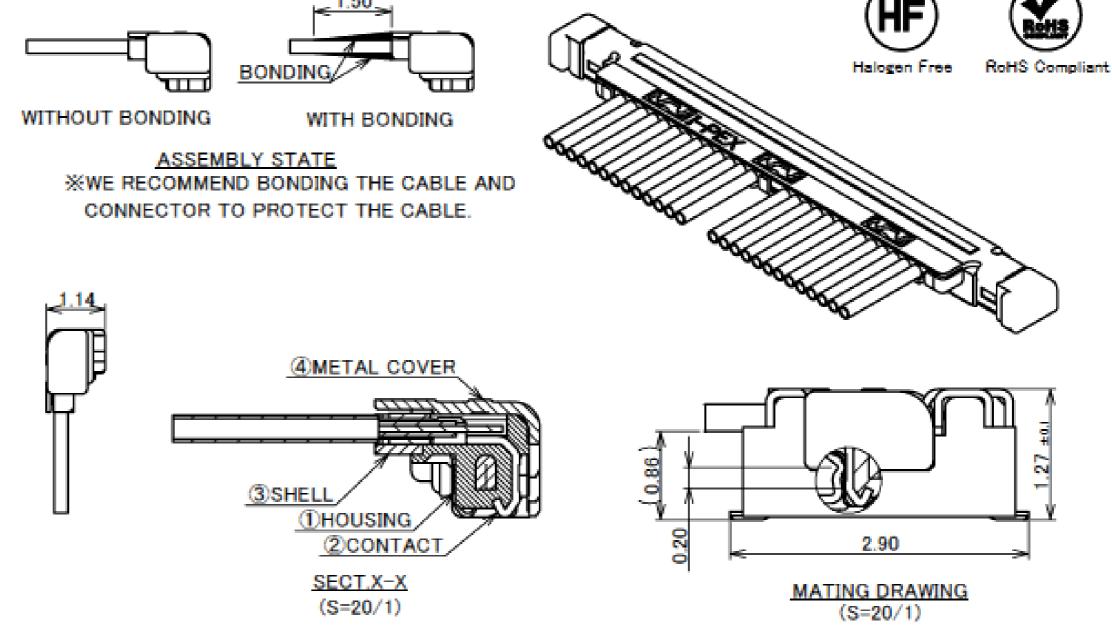
Red	commended P/	N		204	96-0	**-4	0
	PART No.	PC	S.	Α	В	С	D
	20496-026-#0	2	6	12.8	3.6	8.1	9.6
	20496-032-#0	3	2	14.6	4.5	9.9	11.4
•	20496-034-#0	3	4	15.2	4.8	10.5	12.0
	20496-040-#0	4	0	17.0	5.7	12.3	13.8
	20496-050-#0	5	0	20.0	7.2	15.3	16.8



PART COMBINATION TABLE				
PLUG CABLE ASSEMBLY	HOUSING ASSEMBLY	METAL COVER	RECEPTACLE ASSEMBLY	
20496-0**-30	20407 OneT 20	2679-0**-00	20498-0**E-3#	
20496-0**-40	20497-0**T-30	2679-0**-10	20498-0**E-4#	

PLUG HOUSING ASSEMBLY PLUG METAL COVER





-1 -1

4	METAL COVER	STAINLESS STEEL	P/N 20496-0**-30: Au $0.05\mu$ m MIN. OVER Ni $1.00\mu$ m MIN. P/N 20496-0**-40: Sn $1.00\mu$ m MIN. OVER Ni $1.00\mu$ 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
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

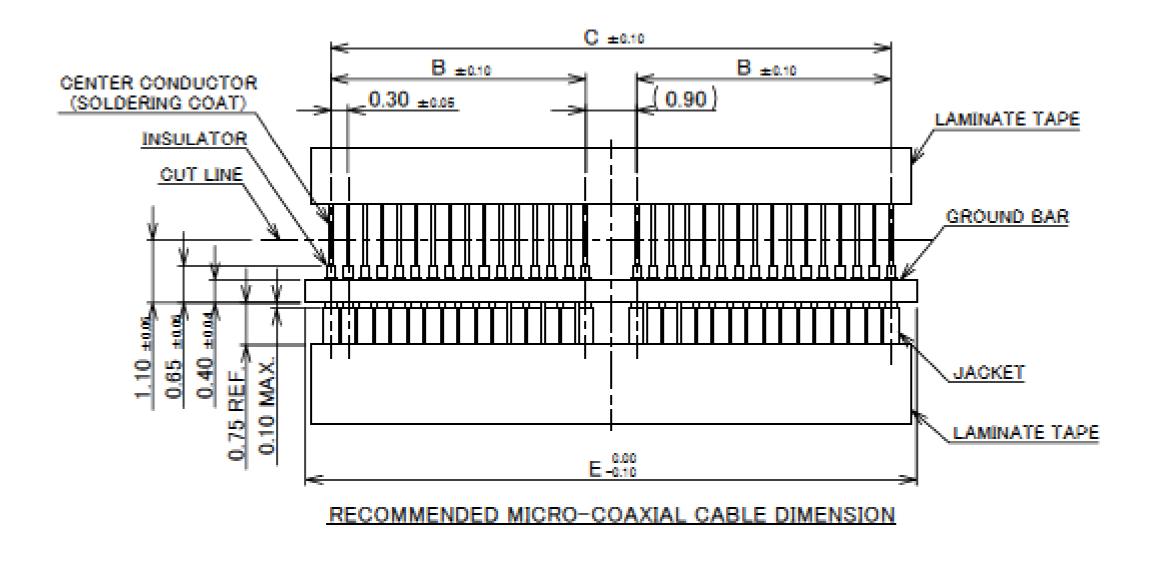
Rev.17

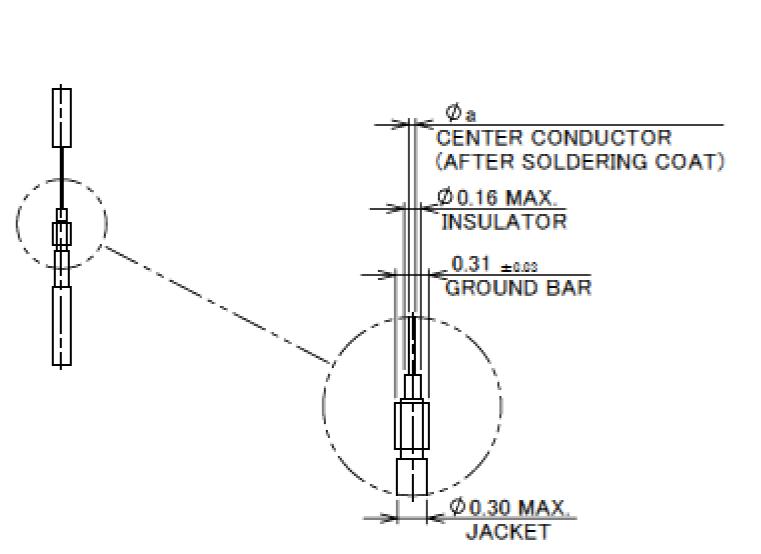
	PART No.	POS.	В	C	Е
	20496-026-#0	26	3.6	8.1	9.0
	20496-032-#0	32	4.5	9.9	10.8
•	20496-034-#0	34	4.8	10.5	11.4
	20496-040-#0	40	5.7	12.3	13.2
	20496-050-#0	50	7.2	15.3	16.2

**◆MARK MEANS NOT AVAILABLE** 

# MICRO-COAXIAL CABLE DIMENSION

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



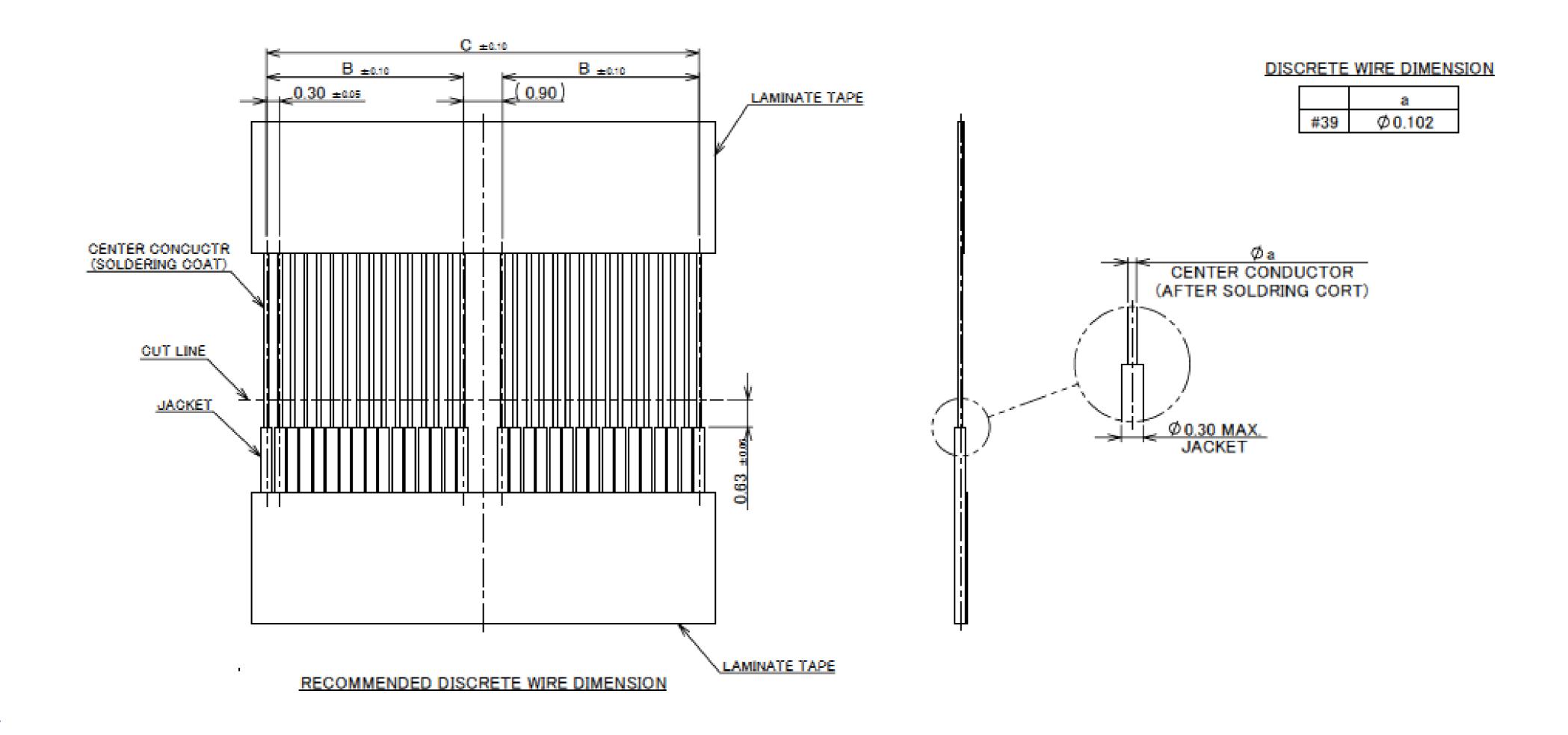




# Plug for Cable Assembly

	PART No.	POS.	В	С
	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

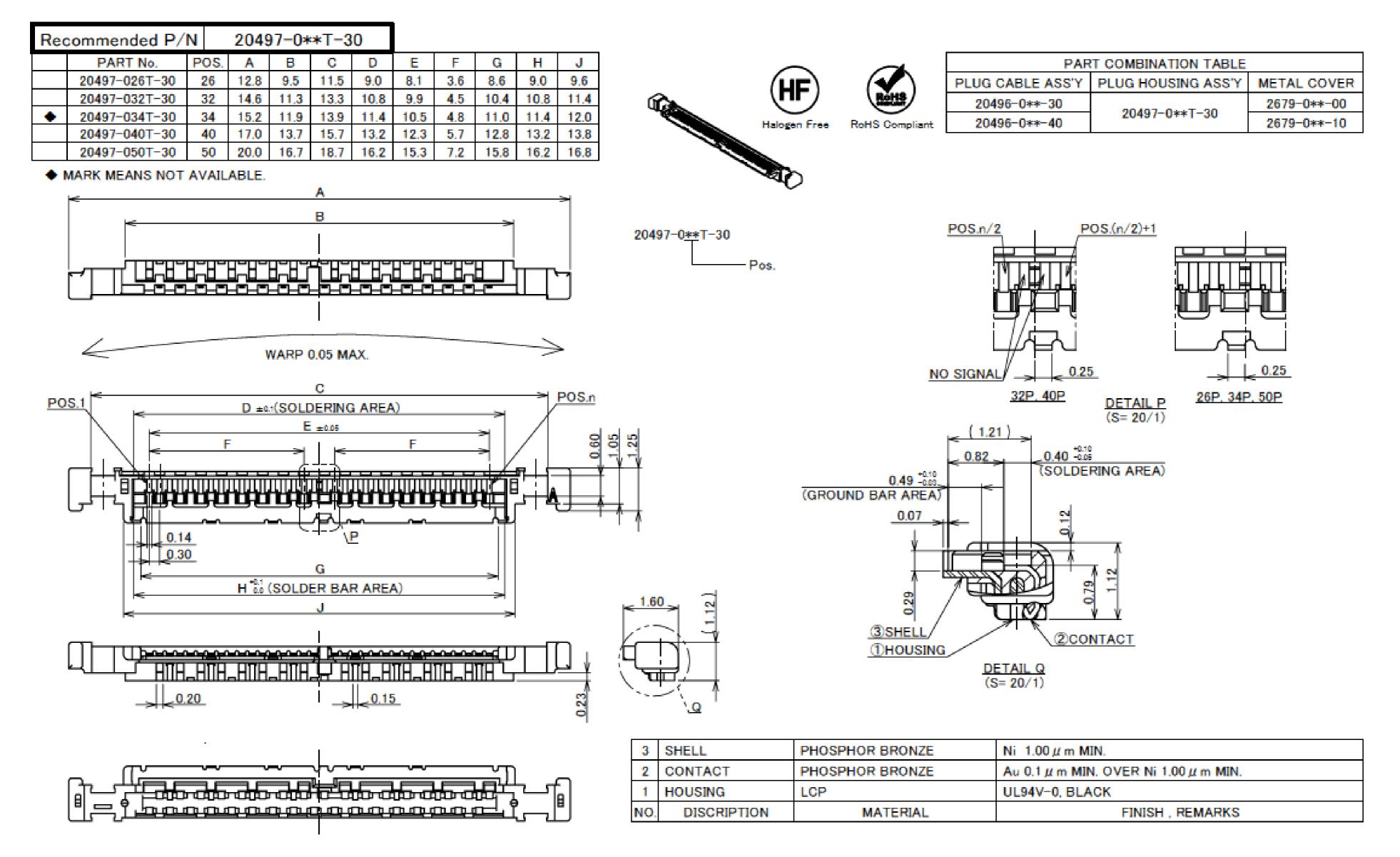


Rev.17

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXAL 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)  0.15A 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***



### **Plug Housing Assembly**

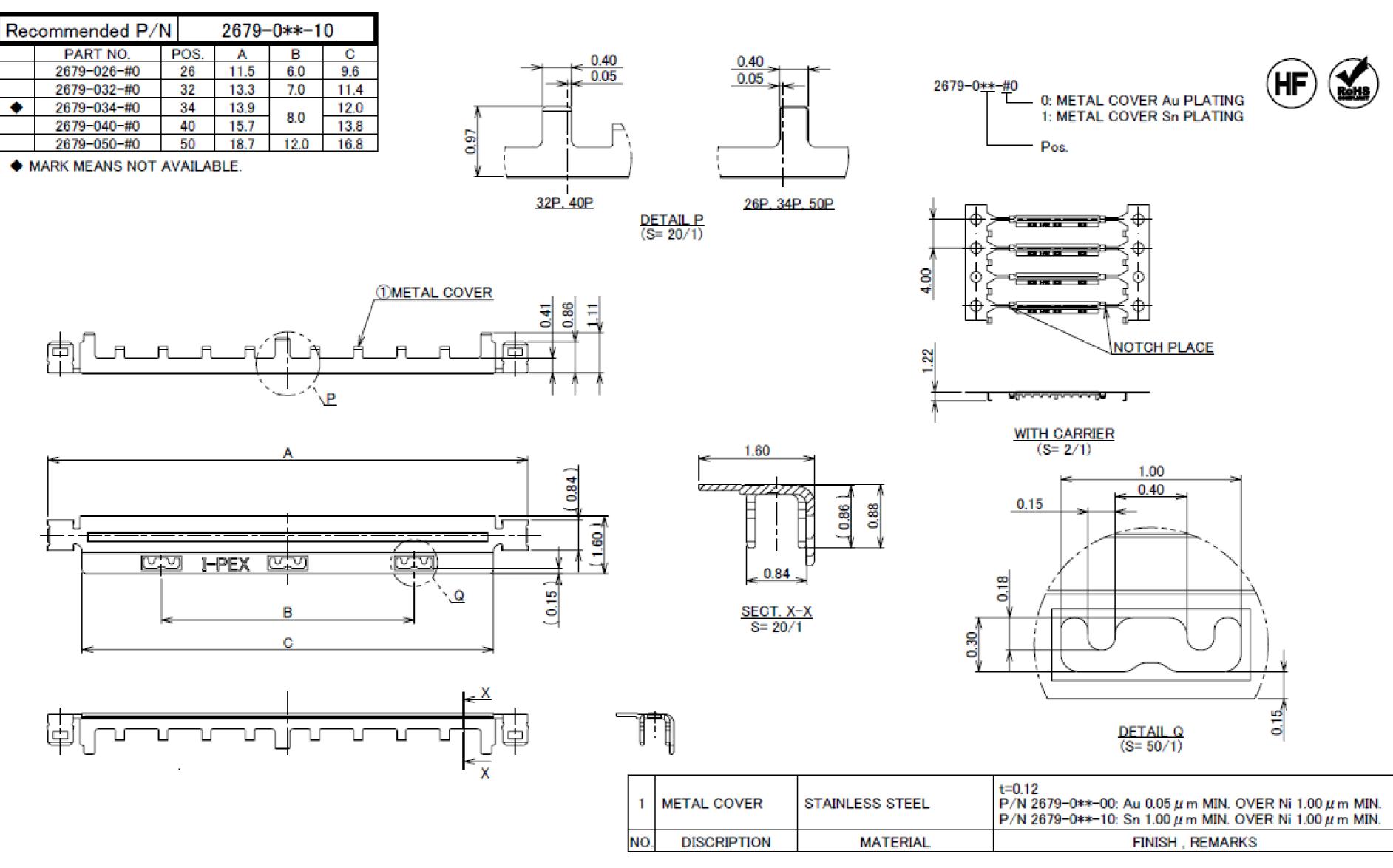


#### NOTES

- 1. THIS PART IS ASSEMBLED METAL COVER (P/N 2679-0\*\*-#0)
- AFTER SOLDERED THE COAXIAL CABLE, AND IT BECOMES P/N 20496-0\*\*-#0.
- 2. PRODUCT SPECIFICATION : DOCUMENT No. PRS-1469
  ASSEMBLY MANUAL : DOCUMENT No. ASM-09004

Rev.13

# **Plug Metal Cover**

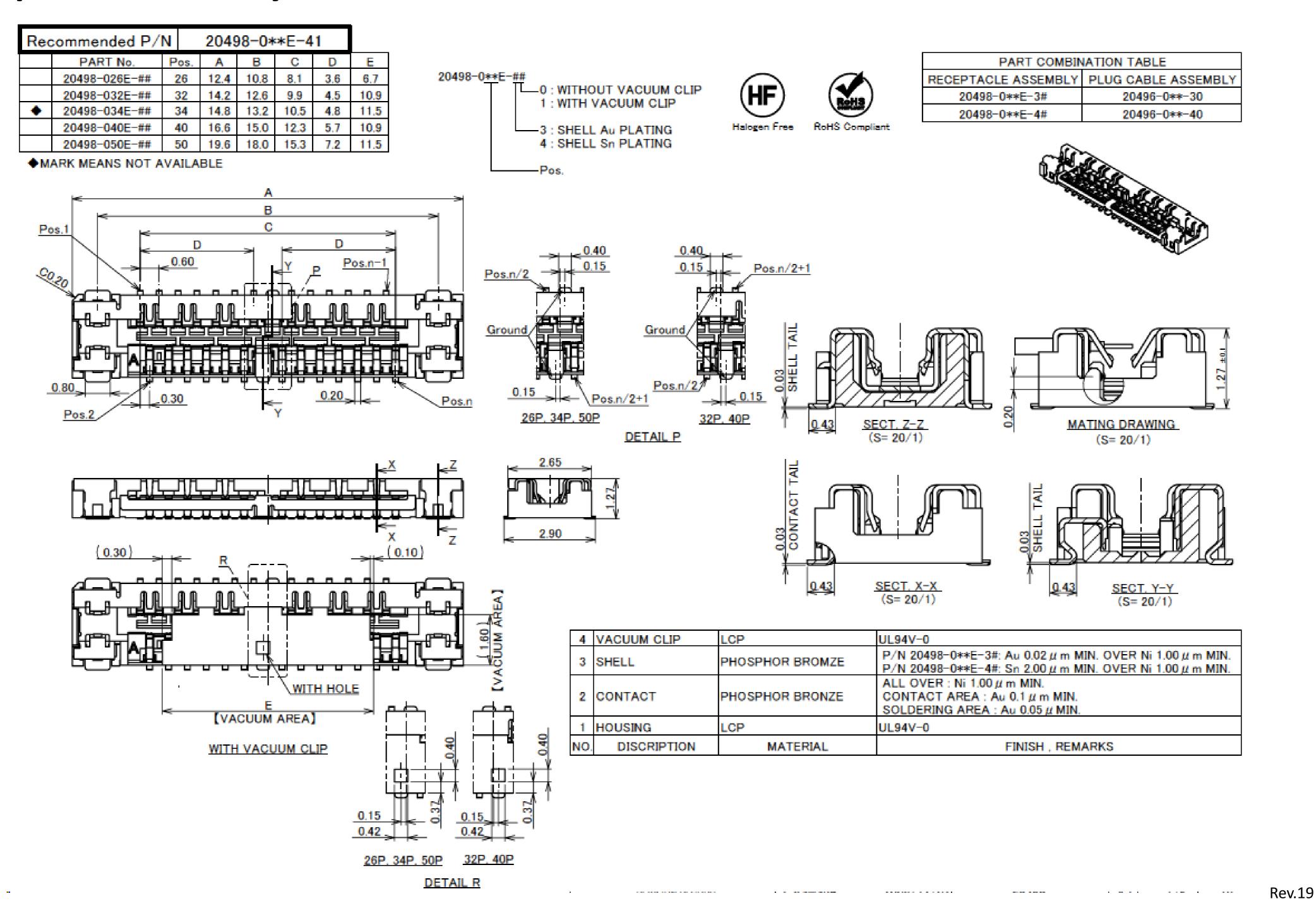


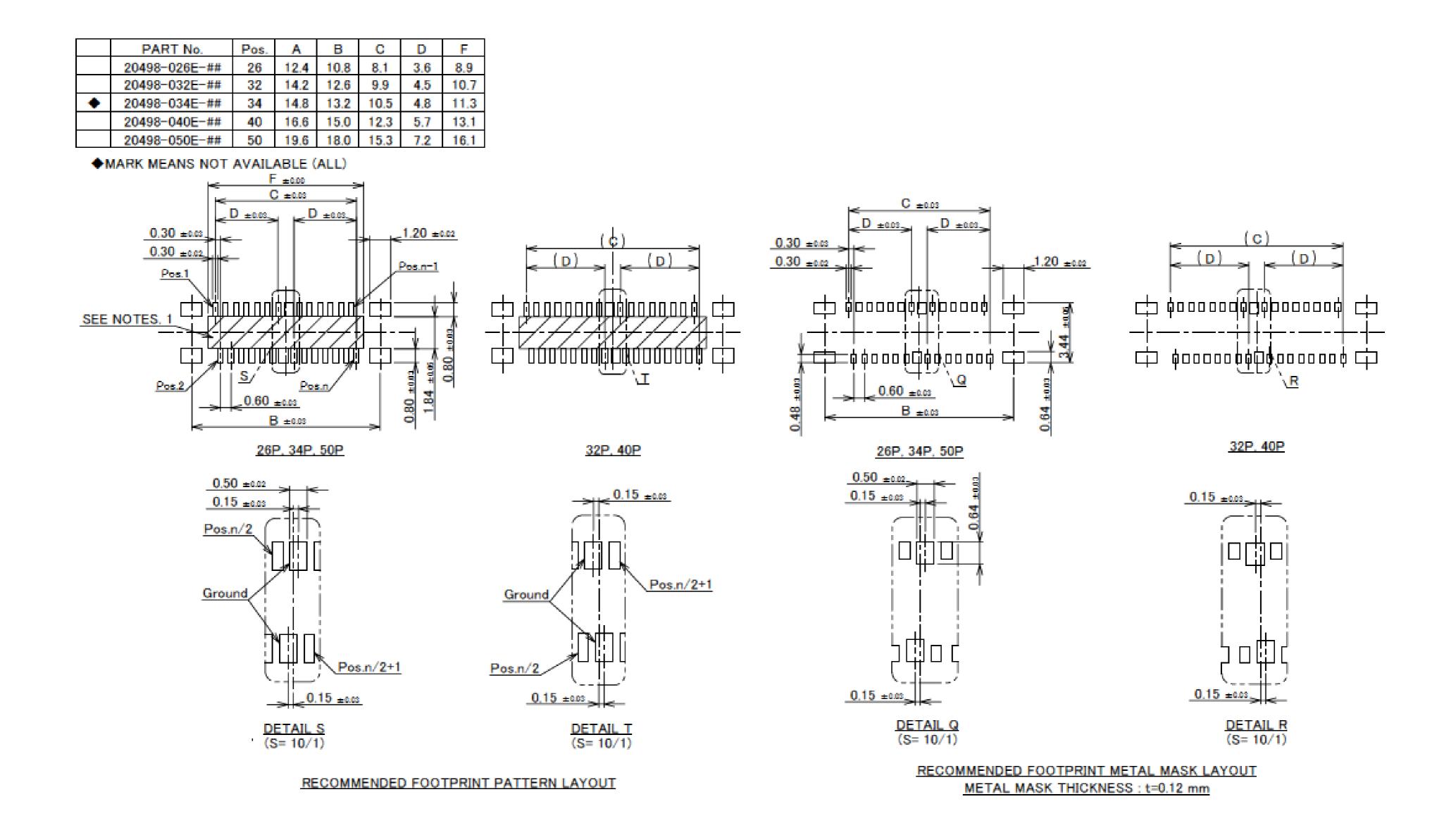
NOTES

I-PEX

- 1. APPLICABLE PLUG HOUSING ASS'Y
- P/N 20497-0\*\*T-30
- 2. PRODUCT SPECIFICATION : DOCUMENT No. PRS-1469 ASSEMBLY MANUAL : DOCUMENT No. ASM-09004

# **Receptacle Assembly**



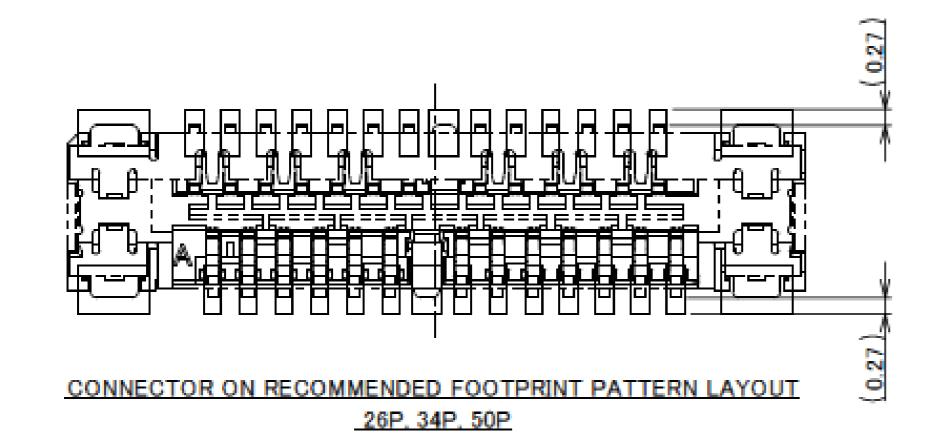


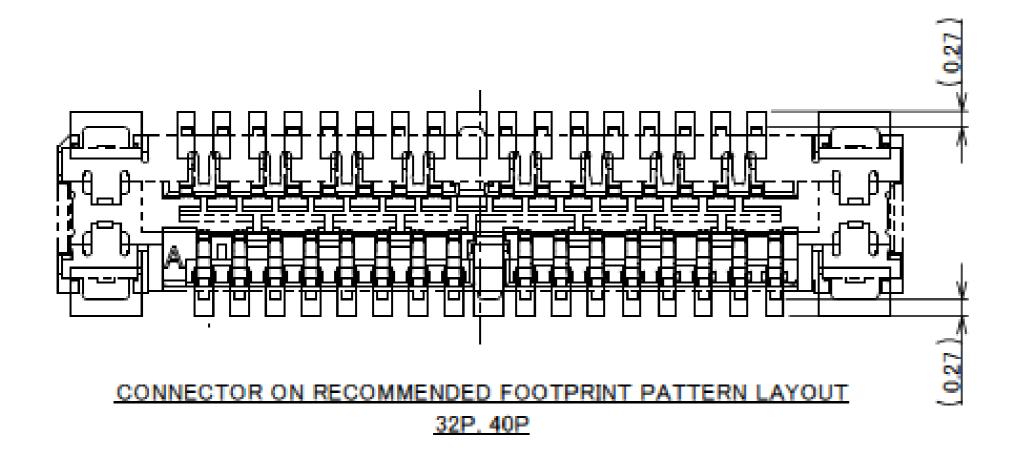
NOTES.

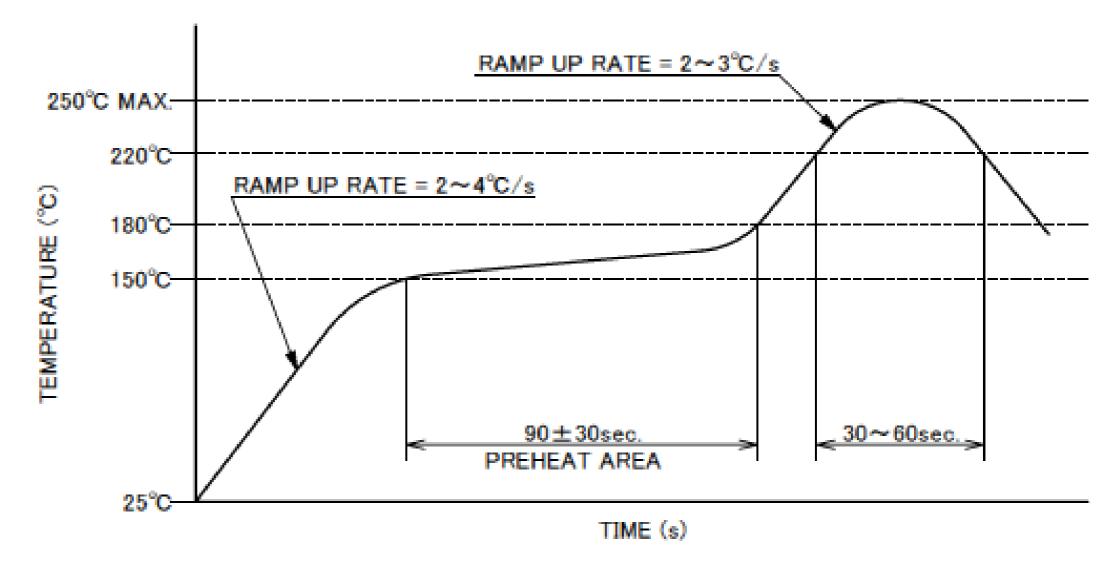
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA

I-PEX

# Receptacle Assembly







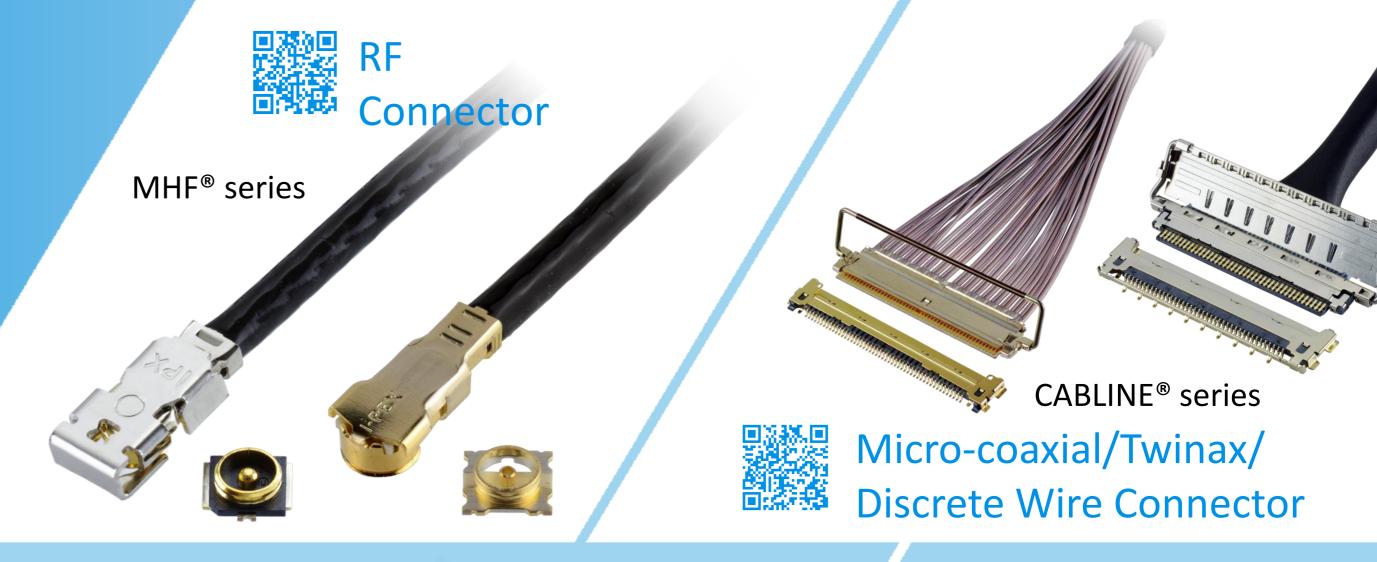
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

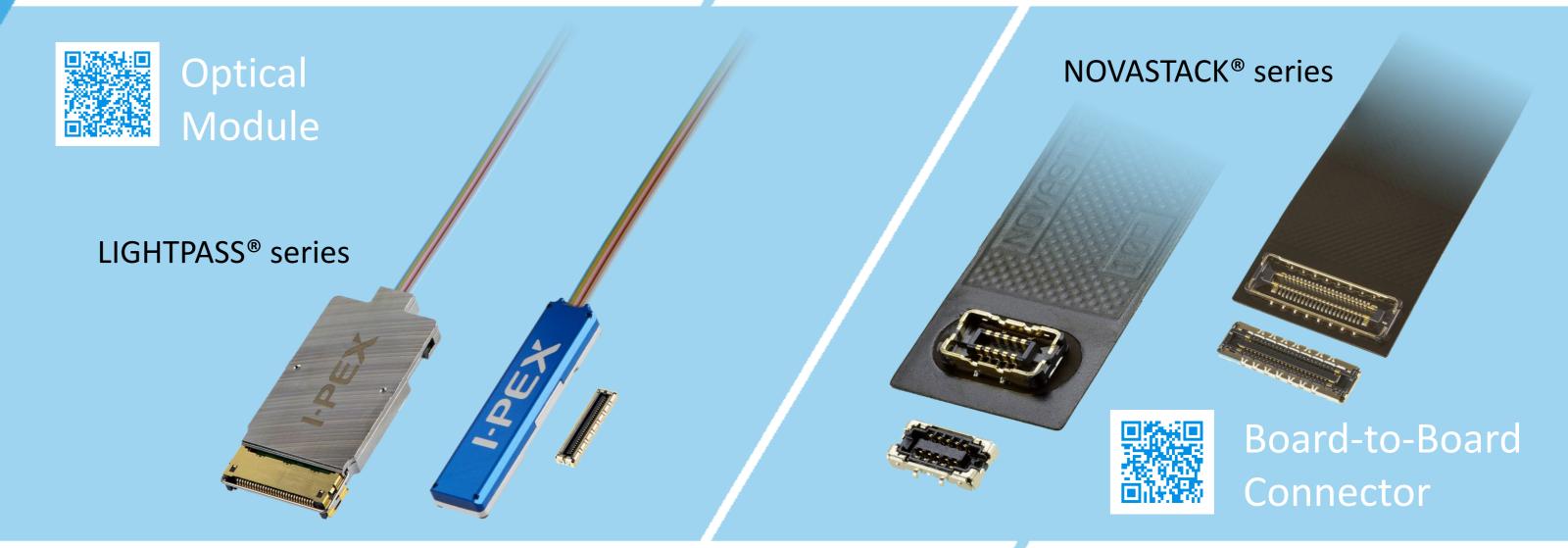
Rev.19

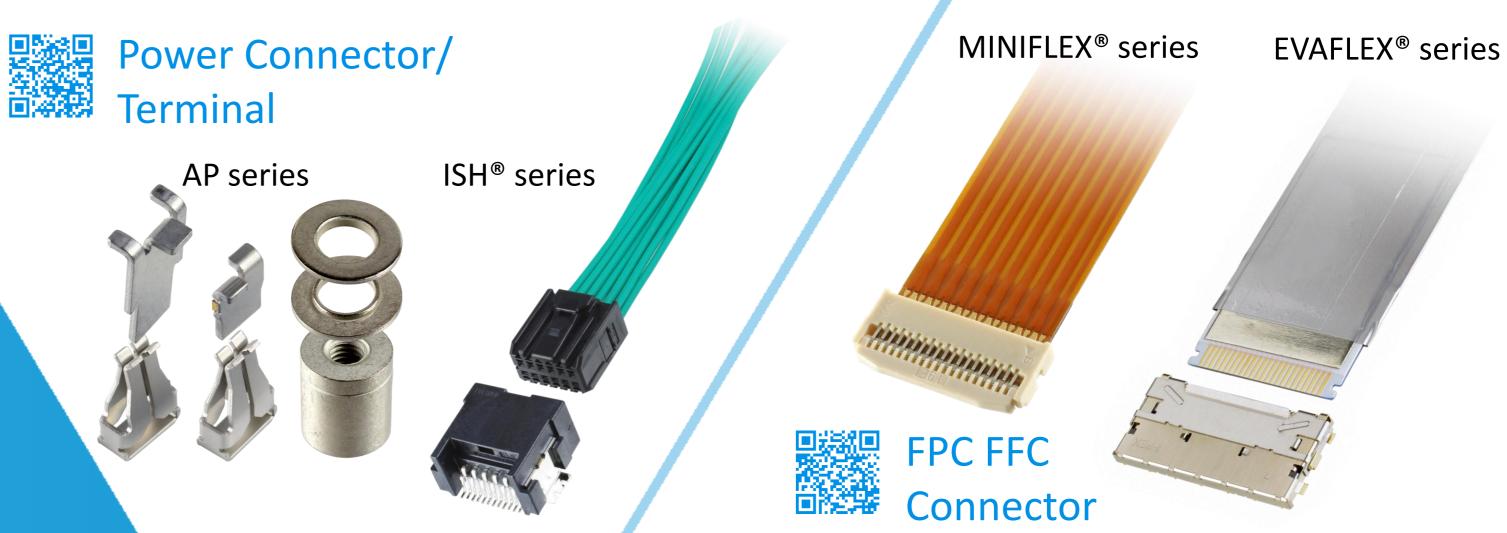
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COPLANARITY	0.10MAX
CABLE RETENTION FORCE	15.0N MIN. (AWG# 44)
PRODUCT SPECIFICATION	PRS-1469
TEST REPORT	TR-09032
PACKING STANDARD	300-697
INSTRUCTION MANUAL	HIM-09006
ASSEMBLY MANUAL	ASM-09004
APPEARANCE CRITERIA No.	QLS-A***

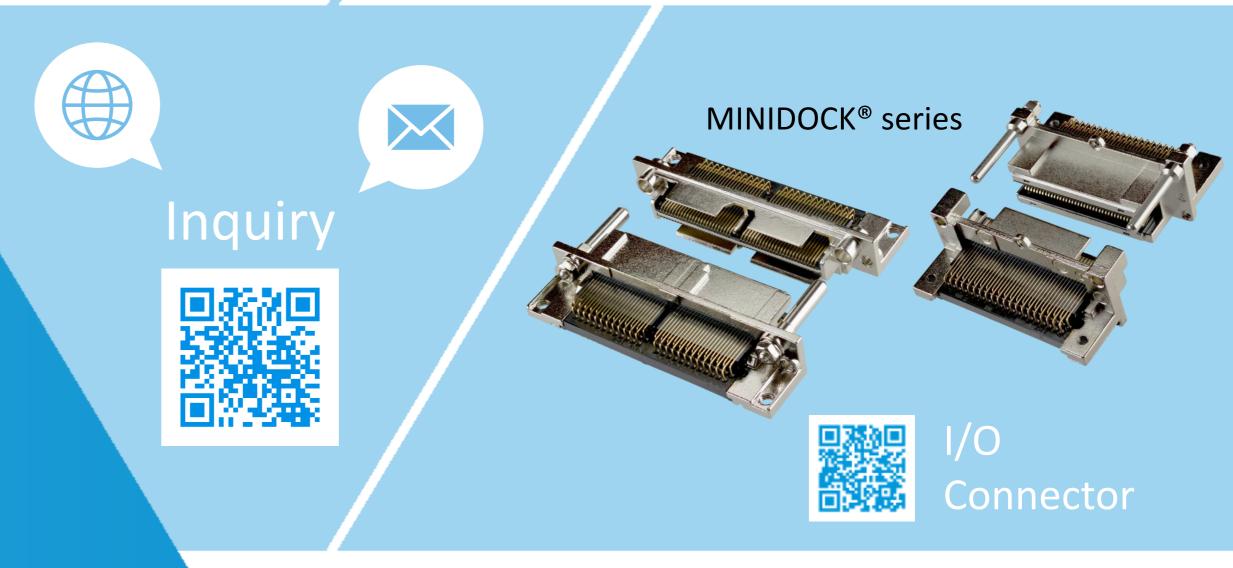


# Custom Connectors Available









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Contact your sales representative or more detailed information.

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