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		
Pili Coulits	Available	26, 32, 40, 50		

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

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

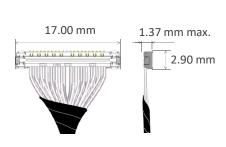
Applicable Standards (Reference Only):				
USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)				



Suitable for small connector spaces

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





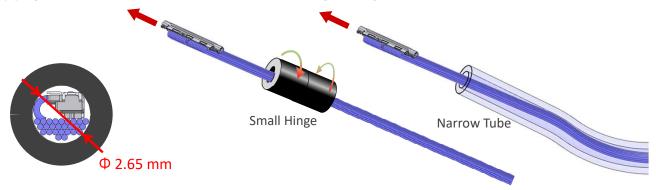


Flexible micro-coaxial cable harness is suitable for small applications with hinge design.

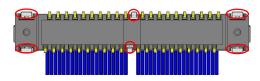
Slim plug design, suitable for through-hinge assemblies

Simulation Reference Example:

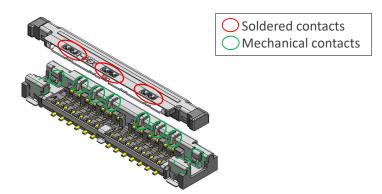
UA II 26p plug with 0.29 mm cable outer diameter harness can go through 2.65 mm inner diameter.



► EMI shielding and multi-point ground design



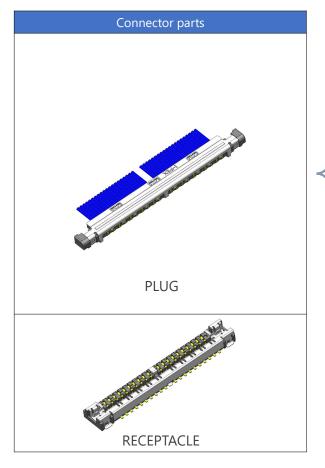
View From Underside

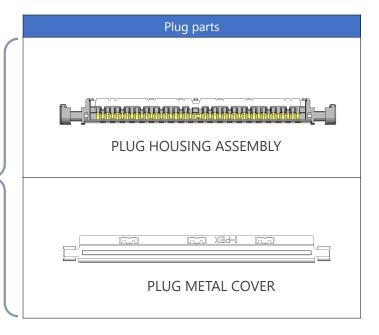




Component Parts Details

Component Parts





Rev.#



Plug for Cable Assembly

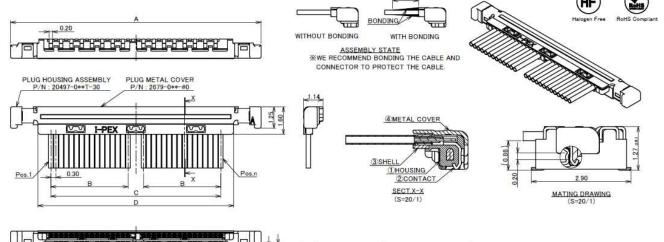
Rec	commended P	/N	204	96-0	**-4	0
	PART No.	POS.	Α	В	С	D
- 13	20496-026-#0	26	12.8	3.6	8.1	9.6
- 17	20496-032-#0	32	14.6	4.5	9.9	11.4
+	20496-034-#0	34	15.2	4.8	10.5	12.0
- 1	20496-040-#0	40	17.0	5.7	12.3	13.8
	20496-050-#0	50	20.0	7.2	15.3	16.8



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

MICRO-COAXIAL CABLE DIMENSION

♦MARK MEANS NOT AVAILABLE

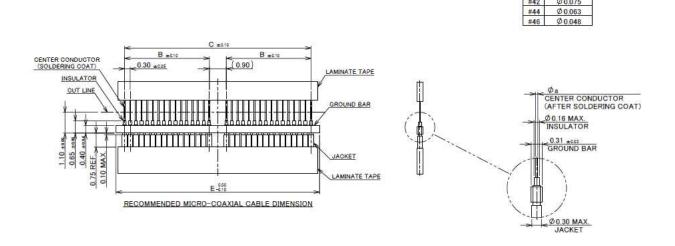


	4	METAL COVER	STAINLESS STEEL	P/N 20496-0**-30: Au 0.05μ m MIN, OVER Ni 1.00μ m MIN. P/N $20496-0**-40$: Sn 1.00μ m MIN, OVER Ni 1.00μ m MIN.
. 00	3	SHELL	PHOSPHOR BRONZE	Ni 1.00 μ m MIN.
	2	CONTACT	PHOSPHOR BRONZE	Au 0.10 μ m MIN. OVER Ni 1.00 μ m MIN.
	1	HOUSING	LCP	UL94V-0, BLACK
	NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.17

PART No.	POS.	В	C	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

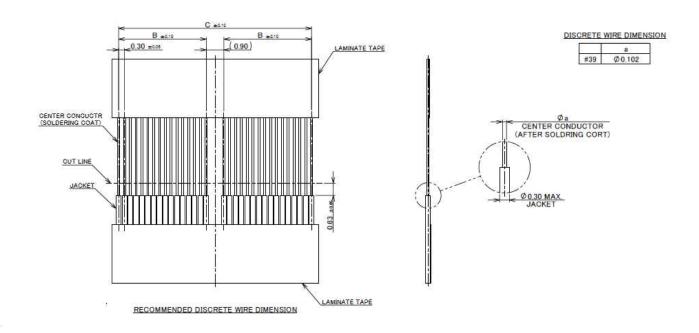




Plug for Cable Assembly

	PART No.	POS.	В	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
-00-0	20496-040-#0	40	5.7	12.3
-1	20496-050-#0	50	72	153

[◆]MARK MEANS NOT AVAILABLE

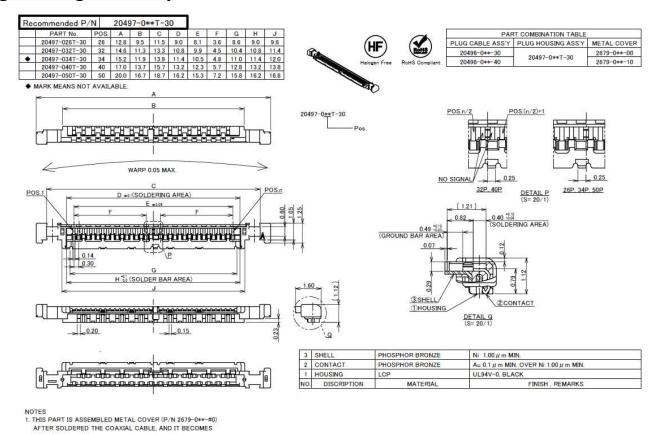


Rev.17

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: Z/40mohm MAX.				
GROUND CONTACT RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : △40mohm MAX.				
NSULATION 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

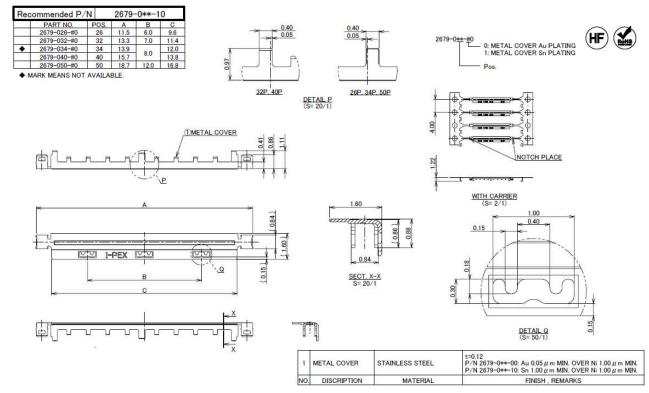


Rev.13

Plug Metal Cover

P/N 20496-0**-#0.

2. PRODUCT SPECIFICATION : DOCUMENT No. PRS-1469 ASSEMBLY MANUAL : DOCUMENT No. ASM-09004



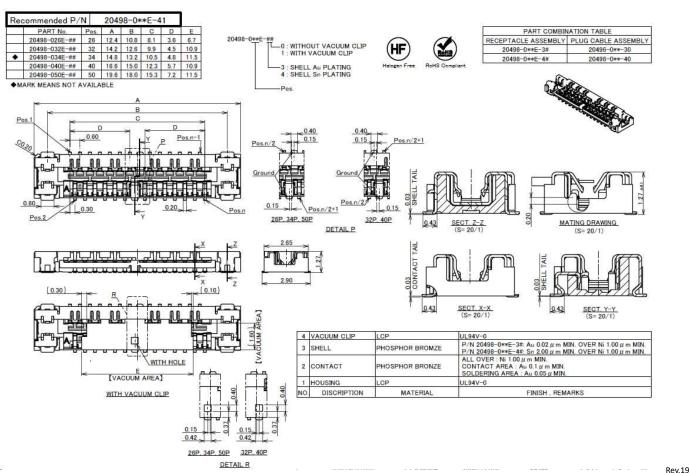
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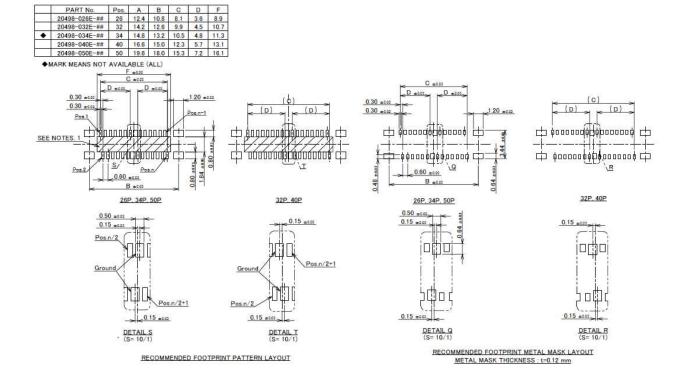
- 1. APPLICABLE PLUG HOUSING ASS'Y
- P/N 20497-0**T-30
 2. PRODUCT SPECIFICATION: DOCUMENT No. PRS-1469 ASSEMBLY MANUAL: DOCUMENT No. ASM-09004

Rev.8



Receptacle Assembly



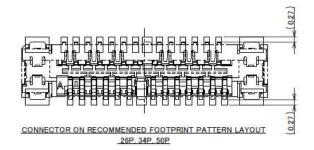


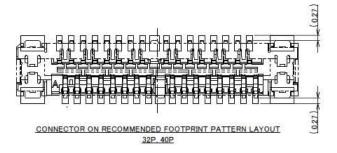
NOTES.

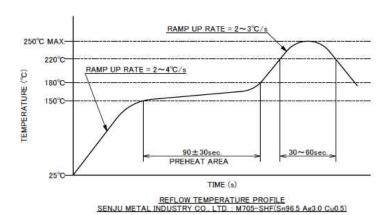
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA

I-PEX

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 RECOMENDED 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: 450mohrn MAX.(AWG#39) 700mohrn MAX.(AWG#42) 1080mohrn MAX.(AWG#44) 1880mohrn MAX.(AWG#46) AFTER TEST: Z40mohrn 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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