CABLINE®-UX II

Slim design suitable for through-hole solution, narrow pitch (0.25 mm), Right angle vertical mating type micro-coaxial connector

Product Specifications:

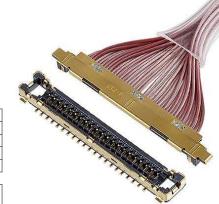
	Todact specifications.				
	Mating type		Right angle vertical		
	Board Pitch (mm)		0.5		
	Wiping Length (mm)		0.2		
	Mated size (mm)	Height	1.0 +/- 0.1		
		Width	Formula: 4.1 + (0.25*?p)		
		Depth	2.4		
		Range	Up to 50		
	Pili Coulits	Available	30, 34, 40, 50		

	Applicable	Cable Size:
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Maximum O.D. (mm)	0.25
Micro-Coaxial	45 ohm: #44 or smaller
for Signal (AWG)	50 ohm: #46 or smaller
Twinax (AWG)	=
Discrete (AWG)	#39 or smaller

Applicable Standards (Reference Only):

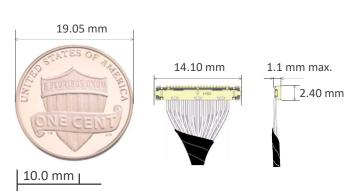
USB 3.1 Gen 1 (5 Gbps), V-By-One HS 1.4 (4 Gbps), HDMI 1.3 (3.4 Gbps)



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

Suitable for Small Connector Spaces

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



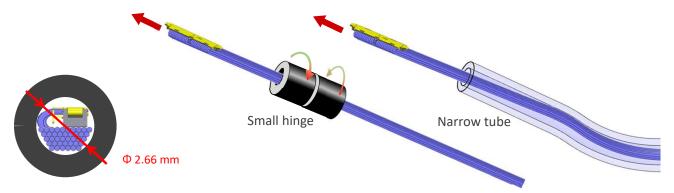


Flexible micro-coaxial cable harness is suitable for small applications with a hinge design.

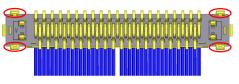
Slim Plug Design, Suitable for Through-hinge Assemblies

Simulation Reference Example:

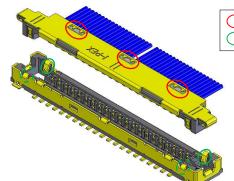
UX II 40p plug with 0.24 mm cable outer diameter harness can go through 2.66 mm inner diameter.



► EMI Shielding and Multi-point Ground Design



View From Underside

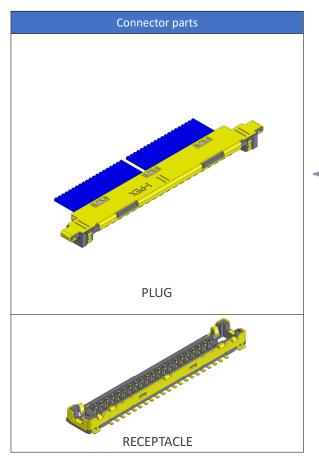


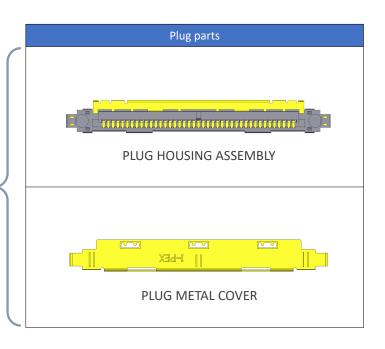




Component Parts Details

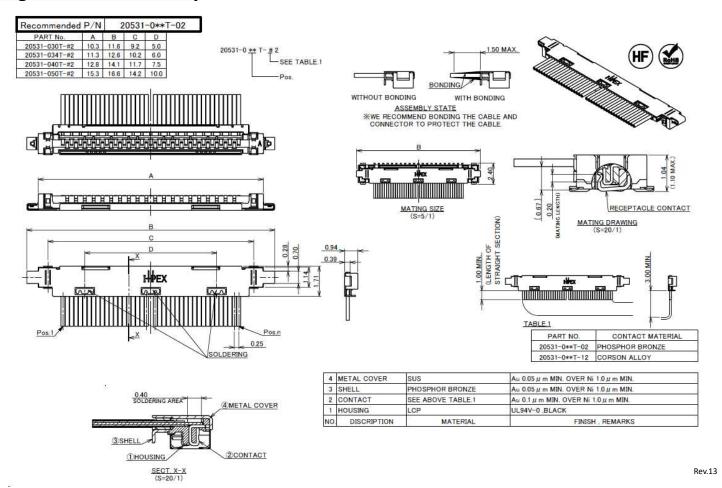
Component Parts



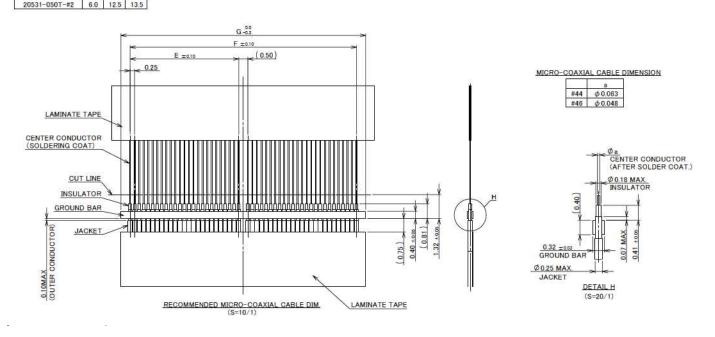




Plug for Cable Assembly



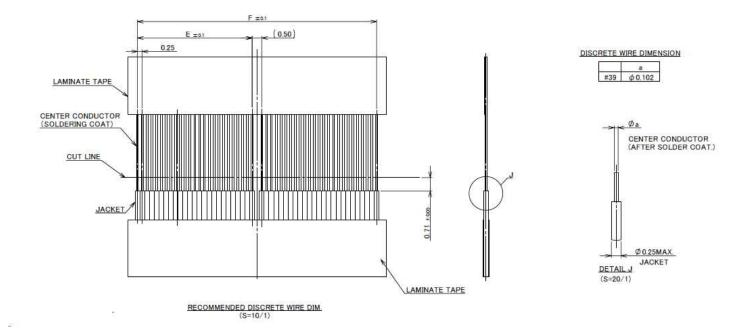
PART No.	E	F	G
20531-030T-#2	3.5	7.5	8.5
20531-034T-#2	4.0	8.5	9.5
20531-040T-#2	4.75	10.0	11.0
			40.0





Plug for Cable Assembly

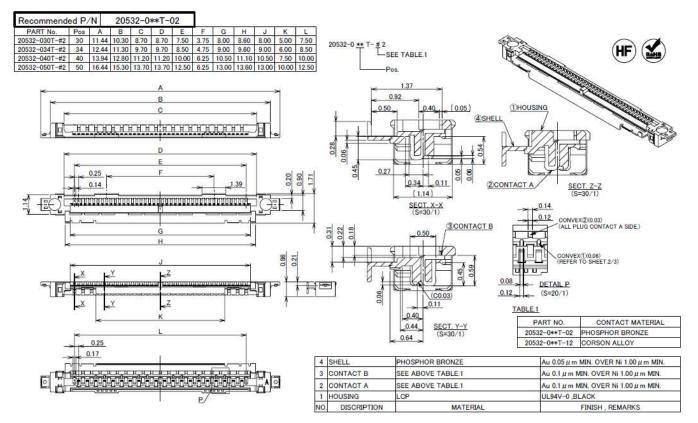
PART No.	E	F
20531-030T-#2	3.5	7.5
20531-034T-#2	4.0	8.5
20531-040T-#2	4.75	10.0
20521-050T-#2	6.0	105



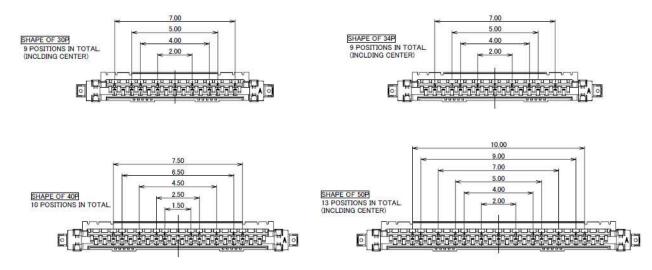
ITEMS	SPECIFICATION		
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 44,46 DISCRETE WIRE: AWG#39		
RATING VOLTAGE	50V AC (PER CONTACT PIN)		
RATING AMPERAGE (FOR CONTACT)	CONTACT MATERIAL: PHOSPHOR BRONZE (PLUG: 20531-0+*T-02 ,RECEPTACLE: 20533-0+*E) 0.50A AC/DC [AWGR39] (PER CONTACT PIN / UP TO 6 CONTACTS) 0.15A AC/DC [AWGR44] 0.10A AC/DC [AWGR46] CONTACT MATERIAL: CORSON ALLOY (PLUG: 20531-0+*T-12 ,RECEPTACLE: 20533-0+*E-01) 0.50A AC/DC [AWGR39] (PER CONTACT PIN / UP TO 8 CONTACTS) 0.19A AC/DC [AWGR44] 0.14A AC/DC [AWGR46]		
OPERATING TEMPERATURE	233~358K(−40°C~+85°C)		
OPERATING HUMIDITY	75% MAX.(NON-CONDENSING)		
CONTACT RESISTANCE	INITIAL: 450mohm MAX.(AWG#39) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST: ⊿140mohm MAX.		
GROUND SHELL 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 / AFTER TEST)	30P : 26.4N MAX. 34P : 27.6N MAX. 40P : 29.4N MAX. 50P : 32.4N MAX.		
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.5N MIN. 34P : 1.9N MIN. 40P : 2.5N MIN. 50P : 3.5N MIN.		
CABLE RETENTION FORCE	30P : 15.0N MIN. 34P : 17.0N MIN. 40P : 20.0N MIN. 50P : 25.0N MIN.		
PRODUCT SPECIFICATION	PRS-1555		
TEST REPORT	TR-10051		
INSTRUCTION MANUAL	HIM-10001		
ASSEMBLY MANUAL	ASM-10001		
APPEARANCE CRITERIA No.	QLS-A***		



Plug Housing Assembly



Rev.8



POSITION OF CONVEX®





Plug Metal Cover

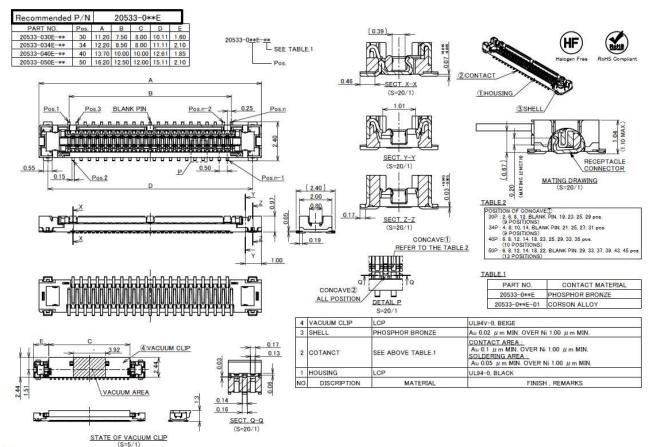
Recommended P/N 2799-0**1 PART No. A B C D E F G 2799-0301 11.60 10.50 7.85 3.75 5.00 8.70 9.20 2799-0341 12.60 11.50 8.85 4.75 6.00 9.70 10.20 2799-0401 14.10 13.00 10.35 6.25 7.50 11.20 11.70 2799-0501 16.60 15.50 12.85 6.25 10.00 13.70 14.20	0.030	HF S
B C C	0.14 0.40 DETAIL P (S=20/1)	(IMETAL COVER
D D D D D D D D D D D D D D D D D D D	0.30 0.20 DETAIL Q (S=20/1)	SECT. X-X (S=20/1)
000 XX	DETAIL R (S=15/1) CENTER MATING MARK	SECT. Y-Y (S=20/1)
	1 METAL COVER SUS NO. DISCRIPTION MATERIAL	Au 0.05 µ m MIN, OVER Ni 1.00 µ m MIN. FINISH , REMARKS

Rev.9

Receptacle Assembly

SHAPE OF 34, 40, 50P

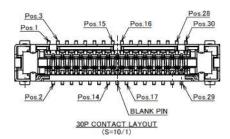
SHAPE OF 30P

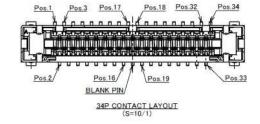


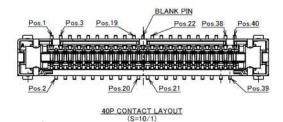


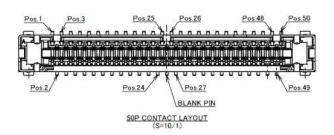
Receptacle Assembly

PART No.	Pos
20533-030E-**	30
20533-034E-**	34
20533-040E-**	40
20522-0505-++	50



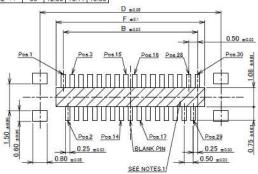




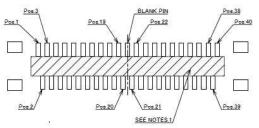


Rev.15

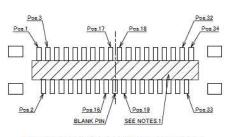
PART No.	Pos	В	D	F
20533-030E-**	30	7.50	10.11	8.30
20533-034E-**	34	8.50	11.11	9.30
20533-040E-**	40	10.00	12.61	10.80
20533-050F-**	50	12.50	15 11	13.30



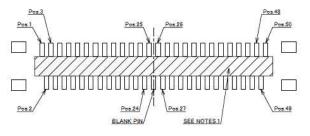




40P RECOMMENDED FOOTPRINT PATTERN LAYOUT



34P RECOMMENDED FOOTPRINT PATTERN LAYOUT



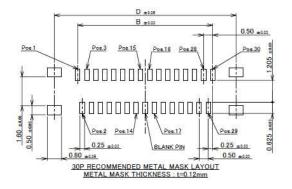
50P RECOMMENDED FOOTPRINT PATTERN LAYOUT

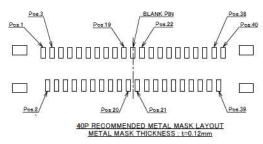
NOTES.

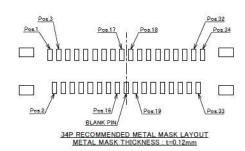
1. SOLDER RESIST SHALL BE APPLIED TO THIS AREA.

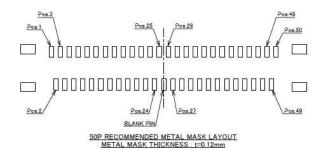
Receptacle Assembly

PART No.	Pos	В	D
20533-030E-**	30	7.50	10.11
20533-034E-**	34	8.50	11.11
20533-040E-**	40	10.00	12.61
20533-050E-**	50	12.50	15.11

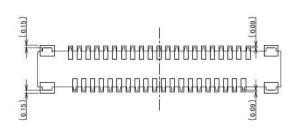


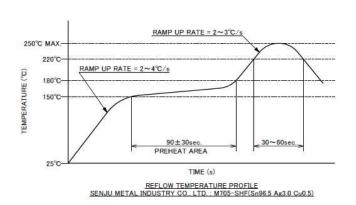






Rev.15





Receptacle Assembly

ITEMS	SPECIFICATION		
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 ,46 DISCRETE WIRE : AWG#39		
RATING VOLTAGE	50V AC (PER CONTACT PIN)		
RATING AMPERAGE (FOR CONTACT)	CONTACT MATERIAL: PHOSPHOR BRONZE (PLUG: 20531-0++T-02; RECEPTACLE: 20533-0++E) 0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 6 CONTACTS) 0.15A AC/DC [AWG#44] 0.10A AC/DC [AWG#45] CONTACT MATERIAL: CORSON ALLOY (PLUG: 20531-0++T-12; RECEPTACLE: 20533-0++E-01) 0.50A AC/DC [AWG#45] (PER CONTACT PIN / UP TO 8 CONTACTS) 0.19A AC/DC [AWG#44] 0.14A AC/DC [AWG#44]		
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)		
OPERATING HUMIDITY	75% MAX.(NON-CONDENSING)		
CONTACT RESISTANCE	INITIAL: 450mohm MAX.(AWG#39) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST: ⊿140mohm MAX.		
GROUND SHELL 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 / AFTER TEST)	30P : 26.4N MAX. 34P : 27.6N MAX. 40P : 29.4N MAX. 50P : 32.4N MAX.		
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.5N MIN. 34P : 1.9N MIN. 40P : 2.5N MIN. 50P : 3.5N MIN.		
CABLE RETENTION FORCE	30P : 15,0N MIN. 34P : 17,0N MIN. 40P : 20,0N MIN. 50P : 25,0N MIN.		
COPLANARITY	0.10mm MAX.		
PRODUCT SPECIFICATION	PRS-1555		
TEST REPORT	TR-10051		
INSTRUCTION MANUAL	HIM-10001		
PACKING STANDARD	300-874		
APPEARANCE CRITERIA No.	QLS-A***		





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