CABLINE® V

Narrow depth & width with friction lock, USB 3.1 (5 Gbps/lane), Durable to contamination, 0.4 mm pitch, Horizontal mating type micro-coaxial connector

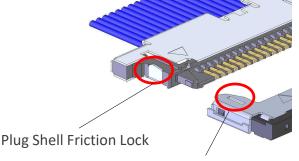
Product Specifications: Applicable Cable Size: Horizontal Maximum O.D. (mm) 0.4 Mating type Board Pitch (mm) 45 ohm: #38 or smaller 0.4 Micro-Coaxial Wiping Length (mm) 0.71 for Signal (AWG) 50 ohm: #40 or smaller 1.0 +/- 0.15 Twin Coaxial (AWG) #40 Height #36 or smaller Width Formula: 4.8 + (0.4*?p) Discrete (AWG) (mm) Depth 5.65 Applicable Standards (Reference Only): Up to 40 USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps) Range Pin Counts eDP (2.7 Gbps) MiPi standards Available 10, 15, 20, 25, 30, 35, 40



Narrow depth & width with friction lock

Width (mm)	4.8 + (0.4*?p)
Depth (mm)	5.65

CABLINE V 35p Retention Force			
With Friction Lock Type	12N		
Without Friction Lock Type	8N		



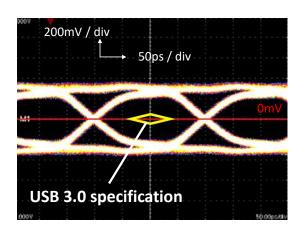
Receptacle Shell Lock Hole

High-data-rate transfer, ideal for USB 3.1 (5 Gbps/lane) applications

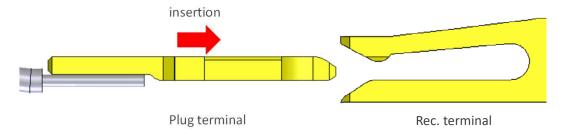
Eye pattern (Differential)

Bit rate: 5 Gbps

Rise time: 60ps (10-90%) Input voltage: 800mVp-p



Tuning fork design terminal, excellent wiping power and durable to contamination



Contamination would be wiped off during insertion

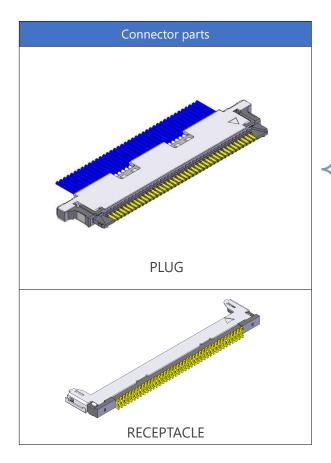


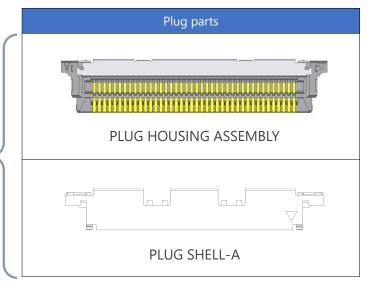
^{*} Please inquire for pin counts not listed or outside of the pin count range.

^{*}Please contact I-PEX for more test details.

Component Parts Details

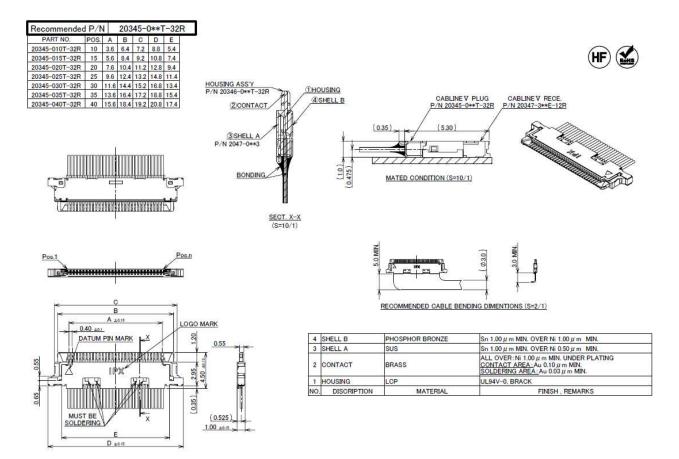
Component Parts



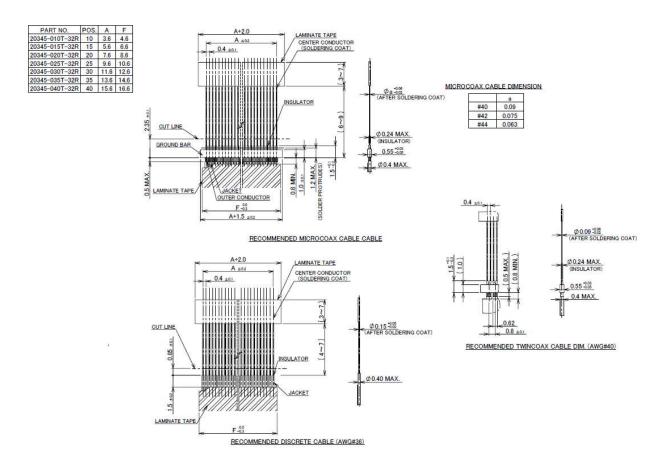




Plug for Cable Assembly



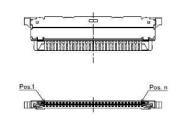
Rev.27

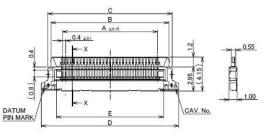


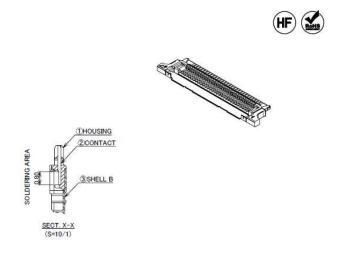


Plug Housing Assembly

Recommended	P/N 20346-0**T-32R				2R	
PART NO.	POS.	Α	В	C	D	E
20346-010T-32R	10	3.6	6.4	7.2	8.8	5.1
20346-015T-32R	15	5.6	8.4	9.2	10.8	7.1
20346-020T-32R	20	7.6	10.4	11.2	12.8	9.1
20346-025T-32R	25	9.6	12.4	13.2	14.8	11.1
20346-030T-32R	30	11.6	14.4	15.2	16.8	13.1
20346-035T-32R	35	13.6	16.4	17.2	18.8	15.1
20346-040T-32R	40	15.6	18.4	19.2	20.8	17.1





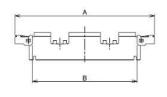


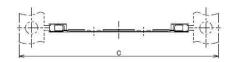
NO	DISCRIPTION	MATERIAL	FINISH, REMARKS
1	HOUSING	LCP	UL94V-0, BRACK
2	CONTACT	BRASS	ALL OVER: Ni 1.00 μ m MIN. UNDER PLATING CONTACT AREA: Au 0.10 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN.
3	SHELL B	PHOSPHOR BRONZE	Sn 1.00 μ m OVER Ni 1.00 μ m MIN.

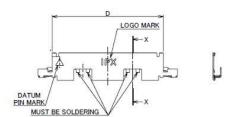
Rev.22

Plug Shell-A

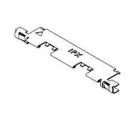
Recommended P/N				20	47-0**3
PART NO.	Α	В	C	D	
2047-0103	8.8	4.6	19.5	5.4	
2047-0153	10.8	6.6	19.5	7.4	
2047-0203	12.8	8.6	19.5	9.4	
2047-0253	14.8	10.6	27.5	11.4	
2047-0303	16.8	12.6	27.5	13.4	
2047-0353	18.8	14.6	27.5	15.4	
2047-0403	20.8	16.6	27.5	17.4	













1	SHELL A SUS		Sn 1.00 μ m MIN. OVER Ni 0.50 μ m MIN.		
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS		



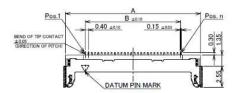


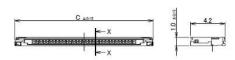
Receptacle Assembly

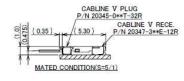
Recommended	20347-3**E-12R				
PART NO.	POS.	Α	В	C	
20347-310E-12R	10	8.40	3.60	8.80	
20347-315E-12R	15	10.40	5.60	10.80	
20347-320E-12R	20	12.40	7.60	12.80	
20347-325E-12R	25	14.40	9.60	14.80	
20347-330E-12R	30	16.40	11.60	16.80	
20347-335E-12R	35	18.40	13.60	18.80	
20347-340E-12R	40	20.40	15.60	20.80	

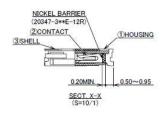


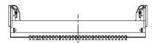










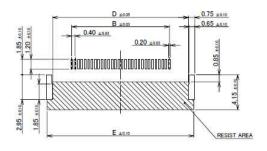


CAV. NO. & Pos. NO.	LOGO MARK

3	SHELL	PHOSPHOR BRONZE	Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER: Ni 1.00 μ m MIN. UNDER PLATING CONTACT AREA; Au 0.10 μ m MIN. SOLDERING AREA; Au 0.03 μ m MIN.
1	HOUSING	LCP UL94V-0, BRACK	
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.34

1	PART NO.	POS.	В	D	E
ı	20347-310E-12R	10	3.60	8.10	9.40
	20347-315E-12R	15	5.60	10.10	11.40
	20347-320E-12R	20	7.60	12.10	13.40
	20347-325E-12R	25	9.60	14.10	15.40
	20347-330E-12R	30	11.60	16.10	17.40
ı	20347-335E-12R	35	13.60	18.10	19.40
	20347-340E-12R	40	15.60	20.10	21.40



RECOMMENDED FOOT PRINT PATTERN & METALMASK LAYOUT RECOMMENDED METALMASK THICKNESS: t=0.12

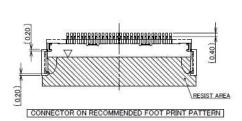
- NOTES.

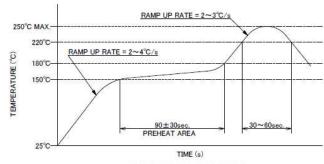
 1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

 2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



Receptacle Assembly





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

Rev.34

ITEMS	SPECIFICATION				
	MICRO COAX : AWG# 44,42,40				
APPLICABLE CABLE	DISCRETE: AWG# 36				
NOT SERVICE OF THE SE	TWINCOAX : AWG# 40				
RATING VOLTAGE	100V AC (PER CONTACT)				
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT / UP TO 40 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT / UP TO 40 CONTACTS 0.3A AC/DC [AWG#42] PER CONTACT / UP TO 40 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT / UP TO 12 CONTACTS %TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL STUJATION.				
OPERATING TEMPERATURE	233~358K(~40°C~+85°C)				
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)				
CONTACT RESISTANCE	INITIAL: 235mohm MAX.(AWG#36) / AFTER TEST:				
GROUND SHELL RESISTANCE	INITIAL: 50mohm MAX. / AFTER TEST: 240mohm MAX.				
INSULATION RESISTANCE	INITIAL: 1000Mohm MIN. / AFTER TEST: 500Mohm MIN.				
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min				
DURABILITY	30 CYCLES				
DOMADIETT	10P : 20.0N MAX.				
MATING FORCE (INITIAL / AFTER TEST)	15P : 22.5N MAX. 20P : 25.0N MAX. 25P : 27.5N MAX. 35P : 30.0N MAX. 35P : 32.5N MAX. 40P : 35.0N MAX.				
UNMATING FORCE (INITIAL / AFTER TEST)	10P: 4.0N MIN. 15P: 5.0N MIN. 20P: 5.5N MIN. 25P: 6.0N MIN. 30P: 7.0N MIN. 35P: 8.0N MIN. 40P: 8.5N MIN.				
CABLE RETENTION FORCE	10P : 4.90N MIN. 15P : 7.35N MIN. 20P : 9.80N MIN. 25P : 12.25N MIN. 35P : 14.70N MIN. 35P : 17.15N MIN. 40P : 19.60N MIN.				
COPLANARITY	0.10 MAX.				
PRODUCT SPECIFICATION	P/N 20347-3**E-12R : PRS-1461				
TEST REPORT	P/N 20347-3**E-12R : TR-08068				
PACKING STANDARD	300-308				
INSTRUCTION MANUAL	HIM-03005				
ASSEMBLY MANUAL	ASM-03002				
APPEARANCE CRITERIA NO.	QLS-A***				







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