



1. Electrical characteristics:

- 1-1. Contact current rating:

A current of 5.0A shall be applied collectively to VBUS pins and 1.25A applied to the VCONN pin with the return path through the corresponding GND pins.

A MIN 0.25A shall be applied individually to all other contacts.

- 1-2. Contact resistance:

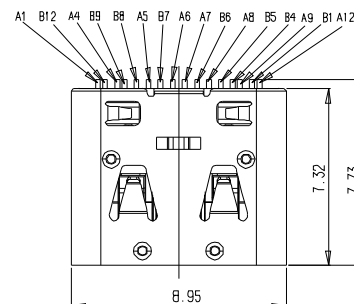
40 Milliohms (MAX) initial for VBUS, GND and all other contacts.
Maximum change (delta) of +10 Milliohms after environmental stresses.

- 1-3. Dielectric withstanding voltage : 100 V AC MIN (RMS).

- 1-4. Insulation resistance: 100 MEGOHMS MIN.

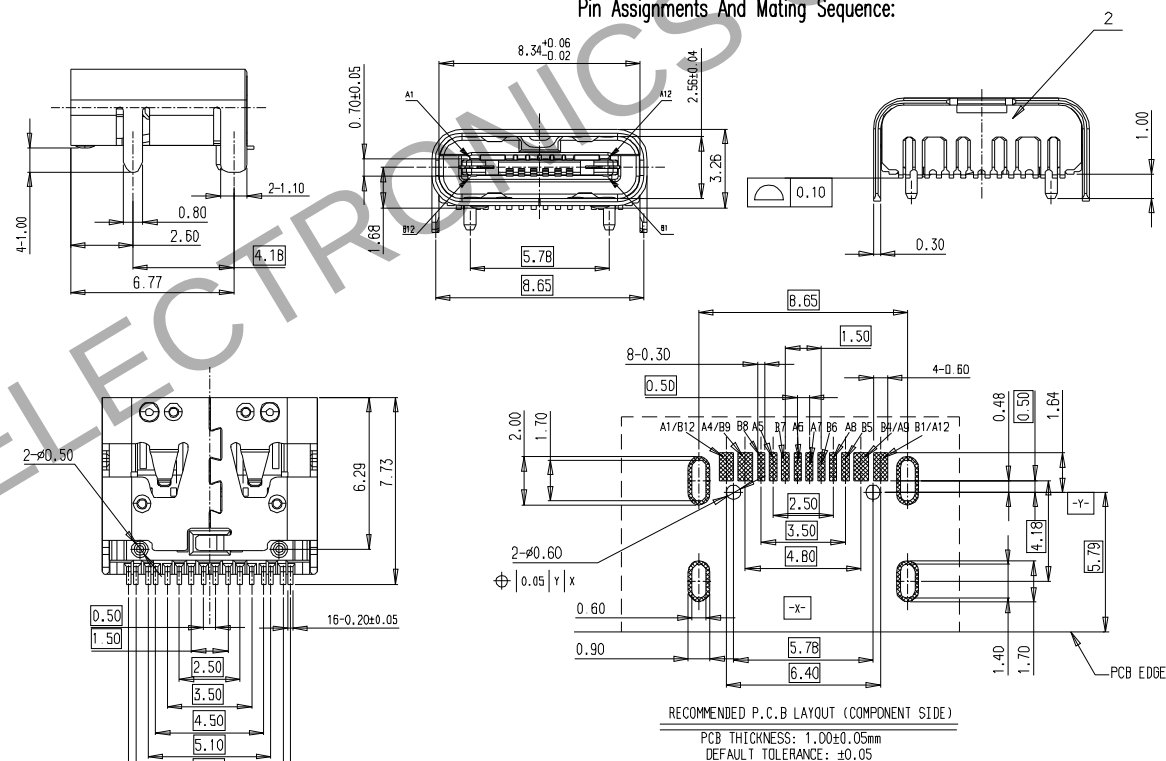
2. Mechanical characteristics:

- 2-1. Connector insertion force: 5~20N at a maximum rate of 12.5mm per minute.
- 2-2. Connector extraction force: 8~20N up to 1000 mating cycles, and 6~20N after the specified insertion/extraction or durability cycles at a maximum rate of 12.5mm per minute
- 2-3. Durability: 10000 cycles minimum.
- 2-4. Operating temperature: -55°C TO +85°C
3. The connector is rohs compliant and halogen free compliant.



Pin NO.	Signal Name	Mating Sequence	Pin NO.	Signal Name	Mating Sequence
A1	GND	First	B12	GND	First
A2			B11		
A3			B10		
A4	V _{bus}	First	B9	V _{bus}	First
A5	CC1	Second	B8	SBU2	Second
A6	D+	Second	B7	D-	Second
A7	D-	Second	B6	D+	Second
A8	SBU1	Second	B5	CC2	Second
A9	V _{bus}	First	B4	V _{bus}	First
A10			B3		
A11			B2		
A12	GND	First	B1	GND	First
Shell	GND		Shell	GND	

Pin Assignments And Mating Sequence:



8				TOLERANCE UNLESS SPECIFIED				
7								
6				WITHIN 1.5: ±0.1mm OVER 1.5: ±0.2mm ANGLES: ±2°				
5	LOWER IM	LCP	8	Ni UNDER PLATED OVERALL,GOLD PLATED AT CONTACT AREA,GOLD PLATED AT TERMINATION	ISSUE	DATE	DESCRIPTIONS	APPD.
4	UPPER TERMINAL	BRONZE	8	Ni UNDER PLATED OVERALL,GOLD PLATED AT CONTACT AREA,GOLD PLATED AT TERMINATION	TITLE:USB TYPE—C FEMALE 16PIN		UNIT:mm	DRWG. NO.:
3	LOWER IM	LCP	1	BLACK			DWN	
2	UPPER IM	LCP	1	BLACK	MODEL NO: USB-20C-F-01		SCALE:4:1	CHK'D
1	OUTER SHELL	STAINLESS STEEL	1	Ni PLATED OVERALL,TAP WITH GOLD PLATED			APPD.	
NO.	DESCRIPTION	MATERIAL	QTY	PLATING	DONGGUAN JINBAOLI ELECTRONICS CO.,LTD			