SPEC. NO.: PS-31863-XXXXX-001 REVISION: A					
SPEC. NO.: PS-318	63-XXXXX-001	REVISION: A			
	0.5 mm PITCH USB TYPE C				
	0.5 mm PITCH USB TYPE C				
PRODUCT NAME:	0.5 mm PITCH USB TYPE C				
PRODUCT NAME: 0	0.5 mm PITCH USB TYPE C				
PRODUCT NAME:	0.5 mm PITCH USB TYPE C	CONN.			

2020.10.28

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	Aces P/N:	31863/31884 series					
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1	Revision	History
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Rev.	ECN#	Revision Description	Prepared	Date
Α	ECN-000948	New product specification	Hsu, Wei Chun	2020.10.28

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2 SCOPE

This specification covers performance, tests and quality requirements for 0.5mm pitch USB Type C connector.

Aces' P/N: Receptacle: 31863

Plug: 31884

3 APPLICABLE DOCUMENTS

Universal Serial Bus Type-C Cable and Connector Specification EIA-364 : ELECTRONICS INDUSTRIES ASSOCIATION

4 REQUIREMENTS

4.1 Design and Construction

Product shall be of design, construction and physical dimensions specified on applicable product drawing.

4.2 Materials and Finish

- 4.2.1 Contact: High performance Copper alloy Finish: Refer to the drawing.
- 4.2.2 Housing: Thermoplastic, High temp. UL94 V-0
- 4.2.3 Shell: Stainless steel

Finish: Refer to the drawing.

4.2.4 Receptacle Mid-Plate: Stainless steel

Finish: Refer to the drawing.

- 4.2.5 Plug Side Latch: Stainless steel Finish: Refer to the drawing.
- 4.2.6 Plug EMC Spring: Stainless steel Finish: Refer to the drawing.

4.3 Ratings

- 4.3.1 Rated voltage: AC 20 V
- 4.3.2 Current:

A current of 9 A shall be applied collectively to V_{BUS} pins (i.e., pins A4, A9, B4, and B9) and 1.25 A shall be applied to the V_{CONN} pin (i.e., B5) as applicable, terminated through the corresponding GND pins (i.e., pins A1, A12, B1, and B12). A minimum current of 0.25 A shall also be applied individually to all the other contacts, as applicable.

4.3.3 Operating Temperature : -40°C to +85°C

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5 Performance

5.1. ELECTRICAL REQUIREMENTS

ELECTRICAL					
Item	Test Condition	Requirement			
Low Level Contact Resistance(LLCR)	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle. Measure at 20 mV (Max) open circuit at 100 mA.	40 m Ω (max) initial for all pin 50 m Ω (max) after initial measurement.			
Insulation Resistance	EIA 364-21. Mated and unmated connectors, apply 100 V DC between adjacent terminals. Applicable to both receptacle and plug.	A minimum of 100 M Ω insulation resistance			
Dielectric Withstanding Voltage	EIA-364-20 The dielectric shall withstand 100 VAC (RMS) for one minute at sea level after the environmental stress	No disruptive discharge Current leakage: 1 mA max.			
Contact Current Rating	Mate connector: measure the temperature rise at rated current after: A current of 9 A shall be applied collectively to V _{BUS} pins (i.e., pins A4, A9, B4, and B9) and 1.25 A shall be applied to the V _{CONN} pin (i.e., B5) as applicable, terminated through the corresponding GND pins (i.e., pins A1, A12, B1, and B12). A minimum current of 0.25 A shall also be applied individually to all the other contacts The ambient condition is still air at 25° C (EIA-364-70 METHOD 2)	When current is applied to the contacts, the temperature rise shall not exceed 30°C at the outside surface of the shell.			

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5.2 MECHANICAL REQUIREMENTS

	MECHANICAL			
Item	Test Condition	Requirement		
Insertion Force	EIA 364-13 Mate connector, At a maximum rate of 12.5 mm (0.492") per minute.	Within the range of 5 N to 20 N		
Extraction Force	EIA 364-13 Un-mate connector, At a maximum rate of 12.5mm (0.492") per minute.	Initial: Within the range of 8 N to 20 N. After Test: Within the range of 6 N to 20 N		
Durability	The durability rating shall be 10,000 cycles minimum for the USB Type-C connector family. The durability test shall be done at a rate of 500+/-50 cycles per hour and no physical damage to any part of the connector and cable assembly shall occur. (EIA-364-09)	No physical damage Contact resistance: 50 mΩ Max. After initial measurement Dielectric withstanding voltage:		
Durability (preconditioning)	Perform 50 unplug/plug cycles (EIA-364-09)	No physical damage		
Vibration	EIA-364-28, test condition VII, test condition letter D,15 minutes in each of 3 mutually perpendicular directions. Both mating halves should be rigidly fixed so as not to contribute to the relative motion of one contact against another.	No evidence of physical damage. No discontinuities of 1 μs or longer duration when mated connector during test. Contact resistance : 50 mΩ Max		
4-Axis Continuity Test	 -The PCB shall be clamped on three sides of the receptacle no further than 5 mm away from the receptacle outline. - 5 mm ball tipped probe applied the force - Duration: 10 seconds - Direction: four directions (i.e., left, right, up, and down). 	No discontinuities greater than 1 microsecond duration in any of the four orientations tested.		

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Wrenching Test	- Plug only - Direction: four directions (i.e., left, down) Duration: 10 seconds	Dielectric withstanding voltage:						

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5.3 ENVIRONMENTAL REQUIREMENTS

	ENVIRONMENTAL	
Item	Test Condition	Requirement
Temperature life	EIA-364-17, method A 105° C without applied voltage for 120 hours.	No evidence of physical damage. Contact resistance: 50 mΩ Max.
Temperature life (preconditioning)	EIA-364-17, method A 105° C without applied voltage for 72 hours.	No evidence of physical damage. Contact resistance: 50 mΩ Max.
Thermal shock	EIA-364-32, test condition I 10 cycles with the exception of exposure times. Place a thermocouple in the center of the largest mass component of the connector that is in the center of the test chamber to insure that the contacts reach the temperature extremes before ramping to the other temperature.	No evidence of physical damage. Contact resistance: 50 mΩ Max.
Mixed flowing gas	EIA-364-65, class II Condition A Mate connectors, and subject to the mixed flowing gas conditions. 1)expose 1/2 of the specimens unmated for 2/3 of the test duration 2)mate each specimen to the same plug that it was mated to during temperature life (preconditioning); and, 3) expose for the remainder of the test duration. Duration: 7 day	No evidence of physical damage. Contact resistance: 50 mΩ Max.
Thermal disturbance	Cycle the connector or socket between 15 °C ±3 °C and 85 °C ± 3 °C, as measured on the part. Ramps should be a minimum of 2 °C per minute, and dwell times should insure that the contacts reach the temperature extremes (a minimum of 5 minutes). Humidity is not controlled. Perform 10 such cycles.	Contact resistance: 50 mΩ Max.

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Cyclic temperature and humidity	EIA-364-31 Cycle the connector between 25 °C ±3 °C at 80 % ±3% RH and 65 °C ±3 °C at 50 % ±3% RH. Ramp times should be 0.5 hour and dwell times should be 1.0 hour. Dwell times start when the temperature and humidity have stabilized within the specified levels. Perform 24 such cycles.	No mechanical damage. Contact resistance: $50 \text{ m}\Omega$ Max. Insulation resistance: $100 \text{ M}\Omega$ min. Dielectric withstanding voltage: No disruptive discharge. Current leakage: $1 \text{ m}\Lambda$ max.
Reseating	Manually unplug/plug the connector. Perform 3 such cycles.	No physical damage

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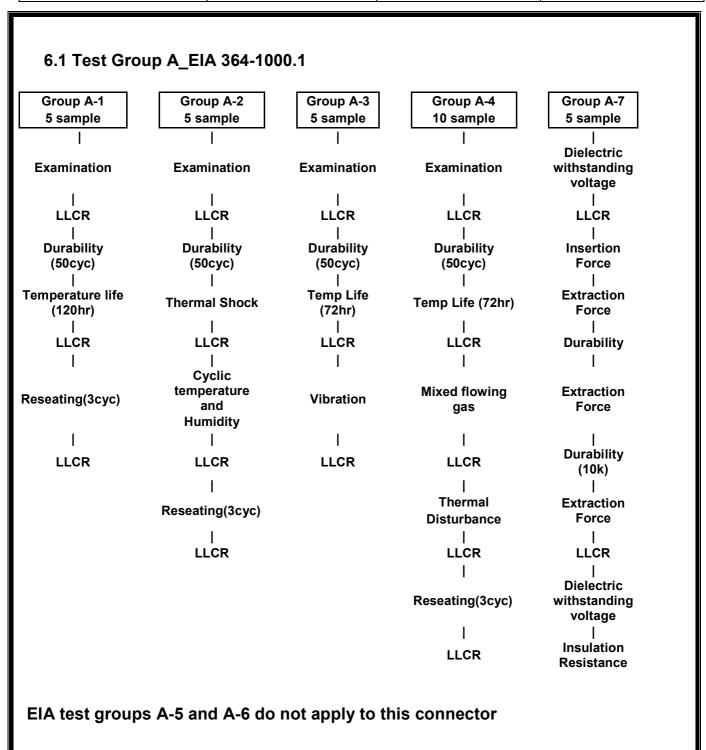
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6 PRIMARY QUALIFICATION APPROVAL TESTING

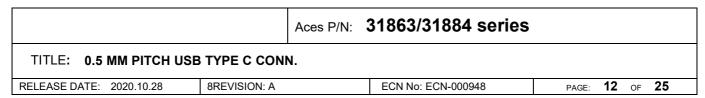
Toot Croup	Title	Number of Specimens			
Test Group	Title	Receptacle	Plug		
Test Group A	Reliability test EIA 364-1000.01 (A-1/A-2 / A-3 / A-4 / A-7)	30pcs	30pcs		
Test Group B-1	Mechanical test (B-1-4:4-Axis Continuity)	B-1-4 only ,8 pcs B-1-4 only ,8			
Test Group B-5	B-5-1 : Critical Dimensions B-5-2 : EMC Shielding Spring Inspection		3		
Test Group B-6	Test Group B-6 Connector Pair Current Rating		3		
Test Group B-7 Plug connector Wrenching test		N/A	B-7-1 ,3 pcs B-7-4 ,12 pcs		

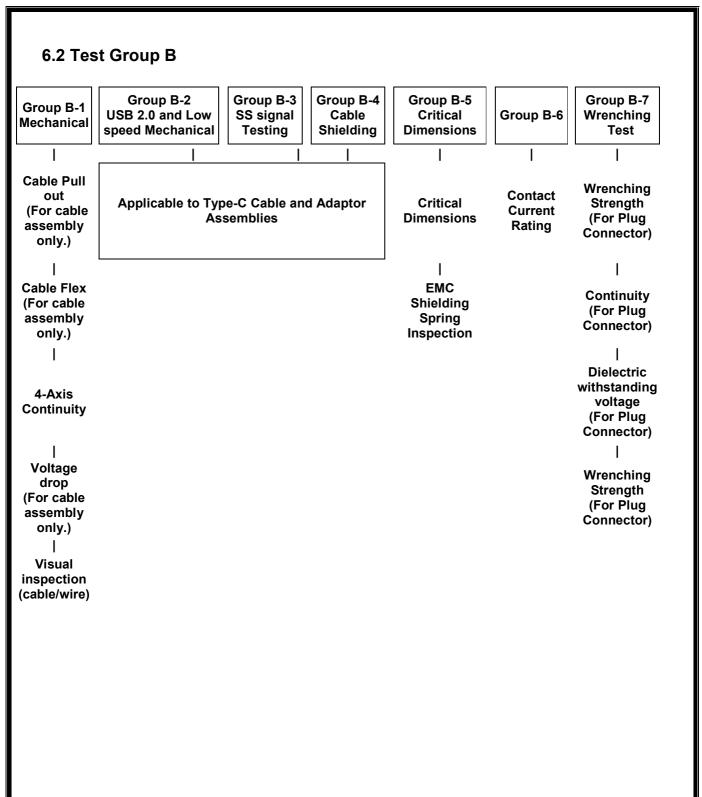
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7 GROUP TEST METHOD

Test Group A-1 (required for all connectors)

Item	Test	Test procedure	Test criteria
1	Low level contact resistance	The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle. Measure at 20 mV (Max) open circuit at 100 mA. LLCR measurement of pin "A1" Voltmeter terminal PWR supply terminal PWR supply terminal	40 milliohms max for all contacts. Baseline measurement.
2	Durability (preconditioning)	EIA-364-09 Perform 50 unplug/plug cycles.	No evidence of physical damage
3	Temperature life	EIA-364-17, method A 105° C without applied voltage for 120 hours.	None
4	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	50 milliohms max.
5	Reseating	Manually unplug/plug the connector or socket. Perform 3 such cycles.	No evidence of physical damage
6	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	50 milliohms max.

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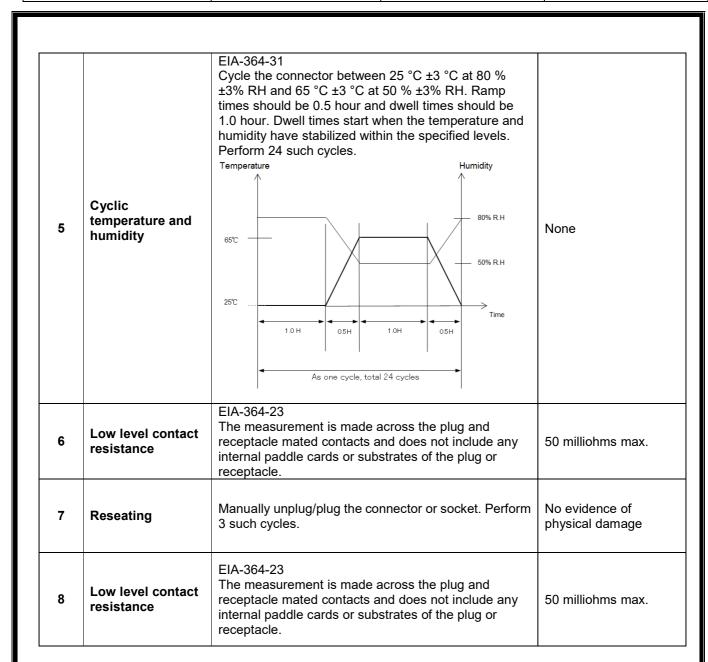
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Test Group A-2 (required for all connectors)

Item	Test		T	est proc	edure	Test criteria
1	Low level contact resistance	recepta	easurement icle mated o paddle car	40 milliohms max for all contacts. Baseline measurement.		
2	Durability (preconditioning)	EIA-364 Perforn	4-09 n 50 unplug	No evidence of physical damage		
3	Thermal shock	10 cycle Place a mass c center of reach the	4-32, test cores with the authermocour omponent confirmed test confirmed temperate temperature, °C	None		
4	Low level contact resistance	recepta	easurement icle mated of paddle car	50 milliohms max.		

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Test Group A-3 (required for all connectors)

Ite m	Test	Test procedure	Test criteria
1	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	40 milliohms max for all contacts. Baseline measurement.
2	Durability (preconditioning)	EIA-364-09 Perform 50 unplug/plug cycles.	No evidence of physical damage
3	Temperature life (preconditioning)	EIA-364-17, method A 105° C without applied voltage for 72 hours when used as preconditioning.	None
4	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	50 milliohms max.
5	Vibration	EIA-364-28, test condition VII, test condition letter D 15 minutes in each of 3 mutually perpendicular directions. Both mating halves should be rigidly fixed so as not to contribute to the relative motion of one contact against another. Value	No evidence of physical damage. No discontinuities of 1 µs or longer duration when mated connector during test.
6	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	50 milliohms max.

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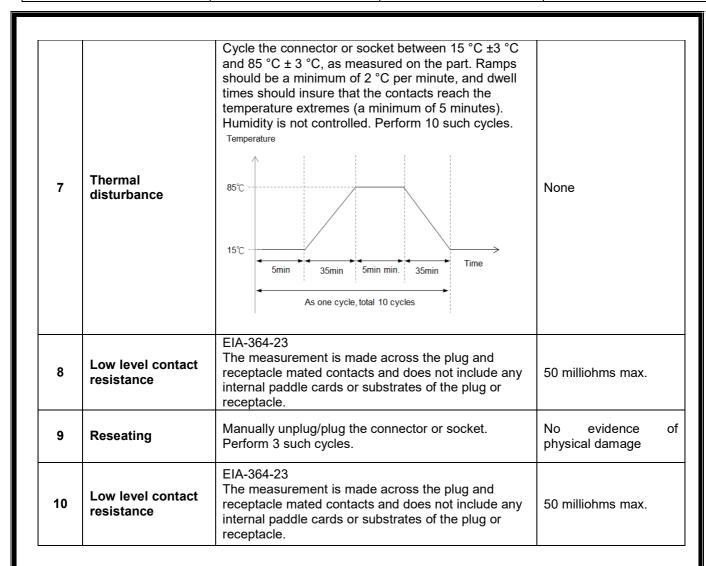
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Test Group A-4 (required for all connectors)

Item	Test	Test procedure					Test criteria	
1	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.						40 milliohms max for all contacts. Baseline measurement.
2	Durability (preconditioning)	EIA-364-09 Perform 50 unplug/pl	ug cycl	es.				No evidence of physical damage
3	Temperature life (preconditioning)	EIA-364-17, method 105° C without applie used as precondition	d volta	ge for	72 hou	ırs wh	en	None
4	Low level contact resistance	receptacle mated cor	The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or					50 milliohms max.
5	Mixed flowing gas	-Mate state (5pcs) Mate -Unmate state (5pcs) 112Hr 16 Unmate Mate	receptacle. EIA-364-65, class II Condition A -Mate state (5pcs) 168Hr Mate -Unmate state (5pcs) 112Hr 168Hr Unmate Mate Relative Rollutant Environmental Humidity Temperature Concentration, ppb Class % °C Cl ₂ NO ₂ H ₂ S SO ₂				None	
6	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.				50 milliohms max.		

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Test Group A-7 (EIA test groups A-5 and A-6 do not apply to this connector)

Item	Test	Test procedure	Test criteria
1	Dielectric withstanding voltage	EIA-364-20, 100 VAC (RMS) Perform 4 plug/unplug cycles. (Total:4 cycles)	No disruptive discharge Current leakage: 1 mA max.
2	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	40 milliohms max.
3	Durability (preconditioning)	EIA-364-09 Perform 4 unplug/plug cycles, followed by an unplug.	No evidence of physical damage.
4	Insertion force	EIA 364-13 At a maximum rate of 12.5 mm (0.492") per minute. (Total:5 cycles)	Within the range of 5 N to 20 N.
5	Extraction force	EIA 364-13 At a maximum rate of 12.5mm (0.492") per minute. (Total:6 cycles)	Within the range of 8 N to 20 N.
6	Durability	EIA 364-9 Perform 25 plug/unplug cycles. Cycle rate of 500 ± 50 cycles per hour followed by a plug. (Total:31 cycles)	No evidence of physical damage
7	Extraction force	EIA 364-13 At a maximum rate of 12.5mm (0.492") per minute (Total:32 cycles)	Within 8 N to 20 N.
8	Durability	EIA 364-9 Perform 2,468 plug/unplug cycles. (Total:2500 cycles) Rotate the receptacle or plug 180° and perform 2,500 plug/unplug cycles. Cycle rate of 500 +/-50 cycles per hour (total of 10,000 plug/unplug cycles, flipping every 2,500 cycles).	No evidence of physical damage
9	Extraction force	EIA 364-13 At a maximum rate of 12.5mm (0.492") per minute	Within 6 N to 20 N.

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10	Low level contact resistance	EIA-364-23 The measurement is made across the plug and receptacle mated contacts and does not include any internal paddle cards or substrates of the plug or receptacle.	50 milliohms max.
11	Dielectric No die		No disruptive discharge. Current leakage: 1 mA max.
12	Insulation Resistance	EIA 364-21. Mated and unmated connectors, apply 100 V DC between adjacent terminals. Applicable to both receptacle and plug.	A minimum of 100 MΩ insulation resistance is required between adjacent contacts of unmated and mated connectors

Test Group B-1: Type-C Connector and Cable Assembly Mechanical Tests

Item	Test		Test procedure)	Test criteria
B-1-4	4-Axis Continuity	receptacle no furt receptacle outline - 5 mm ball tipped - Duration : 10 sec - Direction: four dir	probe applied the fonds	ay from the force ght, up, and down).	No discontinuities greater than 1 microsecond duration in any of the four orientations tested.

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Test Group B-5: Critical Dimensions

Item	Test	Test procedure	Test criteria
B-5-1	Critical Dimensions	See customer drawing	N/A
B-5-2	EMC Shielding Spring Inspection	Visual inspection for compliance with Figure. EMC shielding spring finger tip (Not exposed in plug housing opening. Applies to all EMC shielding springs) COMPLIANT (1.300 +/- 0.025mm) Plug housing opening – one or more occurrences, any location) NONCOMPLIANT (1.300 +/- 0.025mm) Plug housing opening	No EMC shielding spring finger tip of the USB Full-Featured Type-C plug or USB 2.0 Type-C plug shall be exposed in the plug housing opening of the unmated Type-C plug.

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Test Group B-6: Connector Pair Current Rating

Item	Test	Test procedure	Test criteria
B-6	Contact Current Rating	Mate connector: measure the temperature rise at rated current after: A current of 9 A shall be applied collectively to V _{BUS} pins (i.e., pins A4, A9, B4, and B9) and 1.25 A shall be applied to the V _{CONN} pin (i.e., B5) as applicable, terminated through the corresponding GND pins (i.e., pins A1, A12, B1, and B12). A minimum current of 0.25 A shall also be applied individually to all the other contacts The ambient condition is still air at 25° C (EIA-364-70 METHOD 2)	When current is applied to the contacts, the temperature rise shall not exceed 30°C at the outside surface of the shell. This requirement applies to the USB Type-C connector mated pair only.

Current Rating Test PCB							
Item	Trace width (mm)	Trace length (mm) on each PCB	Thickness				
Signal trace 0.25 max.		13 max.	70 μm (2 oz. copper)				
Ground trace 1.57 max.		38 max.	70 μm (2 oz. copper)				
V _{BUS} and V _{CONN}	1.25 max.	30 max.	70 μm (2 oz. copper)				
PCB	N/A	N/A	0.80 - 1.20 mm				

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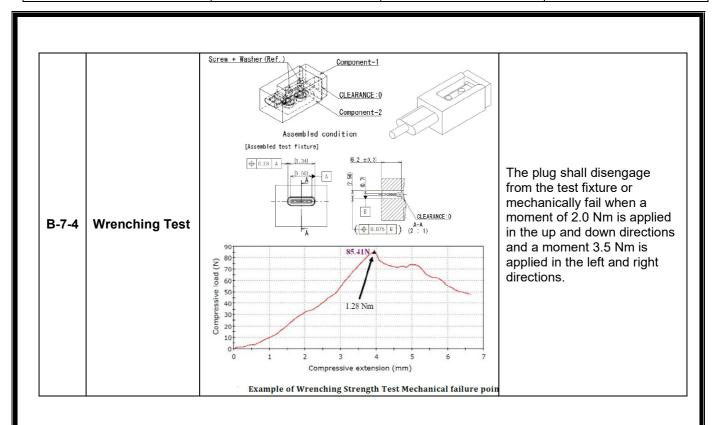
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Test Group B-7: Plug Connector Wrenching Test

Item	Test	Test procedure	Test criteria
B-7-1	Wrenching Test	- Plug only - Direction: four directions (i.e., left, right, up, and down) Duration: 10 seconds Wrenching Strength Test Fixture	The plug shall be mated with the continuity test fixture after the test forces have been applied to verify no damage has occurred
B-7-2	Continuity	Receptacle Mating Datum A WALL THICKNESS DETAIL B	that causes discontinuity or shorting. No plug damage: 0.75 Nm. No discontinuity or short after the test force applied.
B7-3	Dielectric withstanding voltage	Mated, 100 VAC (RMS)	No disruptive discharge. Current leakage: 1 mA max.

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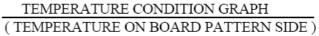


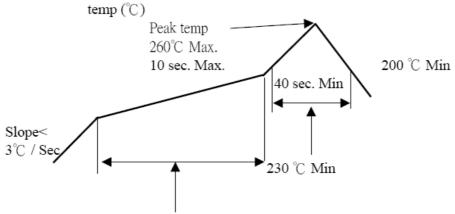
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8 INFRARED REFLOW CONDITION

8.1. Lead-free Process





Pre-heat Hold time for $150 \sim 180$ °C is $60 \sim 120$ sec.

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