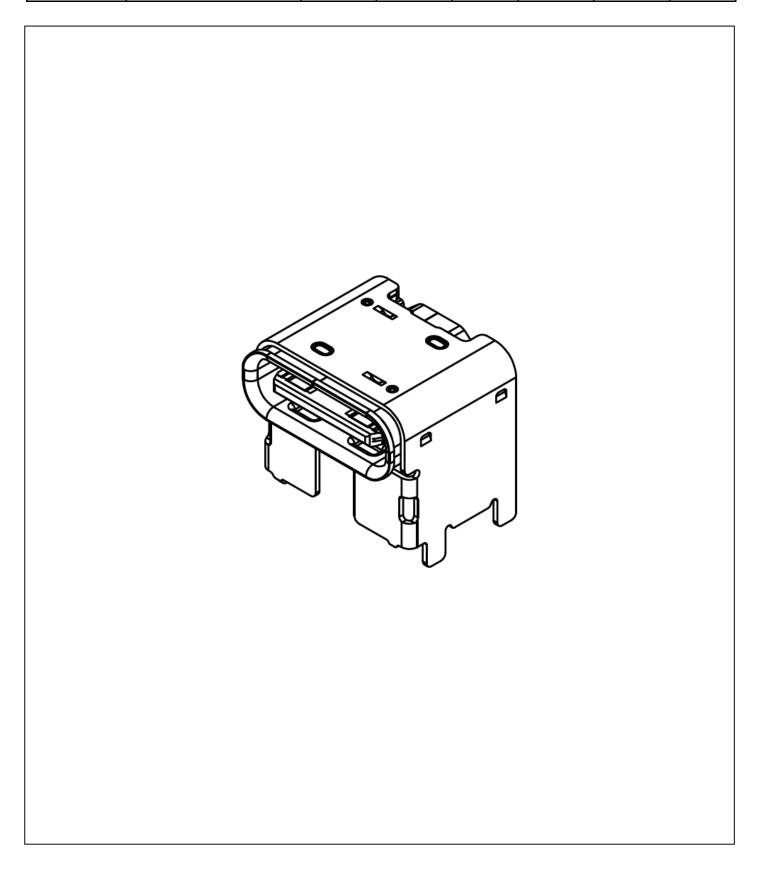
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1.0 SCOPE

This specification covers performance, tests and quality requirements for the USB Type C Receptacle USB4805.

2.0 PRODUCT NAME AND PART NUMBER

USB Type C Receptacle USB4805.

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL

Please refer to drawing.

4.0 RATINGS

4.1 Current rating: 5.00A collectively for VBUS pins(i.e., pins A4, A9, B4, and B9)

6.25A collectively for GND pins(i.e., pins A1, A12, B1, and B12)

1.25A for VCONN (i.e., A5/B5)

0.25A for all other pins, per pin

4.2 Voltage rating 48V DC

4.3 Power rating 240W

4.4 Operating Temperature Range -25°C to +85°C

5.0 TEST AND MEASUREMENT CONDITIONS

Product is designed to meet electrical, mechanical and environmental performance requirements specified below. All tests are performed in ambient conditions unless otherwise specified.

6.0 PERFORMANCE

Test No	Item	Test Condition	Requirement
6.0.1	Examination of Product	Visual, dimensional and functional inspection as per quality plan.	Product shall meet requirements of product drawing and specification.
	Reseating	Manually plug/unplug 3 times	No physical damage



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6.1 Electrical Performance

Test No	Item	Test Condition	Requirement
6.1.1	Low Level Contact Resistance	The low level contact resistance measurement is made from the solder tail of the receptacle to the soldering point of the plug. When measured at 20mV Max. open circuit at 100mA. Mated test contacts must be in a connector housing. In accordance with EIA-364-23, Test Condition B	40mΩ max (initial)
6.1.2	Insulation Resistance	Both unmated and Mated connectors, apply 100V DC for 1 minute at sea level between adjacent terminal or ground. In accordance with EIA-364-21.	100 MΩ Min (initial)
6.1.3	Dielectric Strength	Mate connectors, apply 100V AC (RMS) for 1 minute at sea level. In accordance with EIA-364-20.	No Breakdown
6.1.4	Contact current rating	A current of 5 A shall be applied collectively to VBUS pins (i.e., pins A4, A9, B4, and B9) and 1.25 A shall be applied to the VCONN 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.	The temperature rise shall not exceed 30°C at the outside surface of the shell.



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6.2 Mechanical Performance

Test No	Item	Test Condition	Requirement
6.2.1	Mating/Un-mating Force	·	
6.2.2	Durability	20,000 cycles at a cycle rate 500± 50 per hour. In accordance with EIA-364-09. (Replace the plug after 10K cycles)	Un-Mating force: within 6N to 20N Contact resistance: 50mΩ max Dielectric Strength: no breakdown
	Durability (Preconditioning)	50 cycles at a cycle rate 500± 50 per hour In accordance with EIA-364-09.	-
6.2.3	Vibration	EIA 364-28 Test Condition VII, Test 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. The method of fixturing should be detailed in the test report	No evidence of physical damage and no discontinuity longer than 1 microsecond. Contact resistance: 50mΩ max.
6.2.4	4-Axis Continuity	Shall be tested for continuity under stress using a test fixture	No evidence of physical damage and no discontinuity longer than 1 microsecond.



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6.3 Environmental Performance and Others

Test No	Item	Test Condition	Requirement
6.3.1	Cyclic Temperature and Humidity Test	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.	Contact Resistance: 50mΩ Max.
6.3.2	Salt Spray	Subject mated connectors to 5±1% salt-solution concentration, 35±2°C for 24 hours. In accordance with EIA-364-26, Test Condition B.	Shall meet visual requirements, No detrimental corrosion allowed in contact area and base metal exposed.
6.3.3	Thermal Shock	Temperature range from -55°C~+85°C. Start from -55°C. After 30 min. change to +85°C, change time is no more than 5min. Total 10 cycles. Test reference standard: EIA 364-32, test condition	No physical damage. Contact Resistance (Low Level) 50m max.
6.3.4	Solderability	Solder pot temperature: 250±5°C for 3~5 seconds. In accordance with EIA-364-52.	95% of immersed area must show no voids, pin holes.
0.0.5	Temperature life	105° C without applied voltage for 120 hours. EIA-364-17, method A	Contact resistance: 50mΩ max
6.3.5	Temperature Life (preconditioning)	105° C without applied voltage for 72 hours. EIA-364-17, method A	-
6.3.6	Mixed flowing gas	EIA 364-65, Class II A Samples should be placed in an environmentally controlled 'test chamber' that is monitored by a gas analyzing system for controlled concentrations of the specified gas mixture. Test coupons shall also be used and the weight gain reported. Test duration is 7 days.	Contact resistance: 50mΩ max
6.3.7	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: 50mΩ max

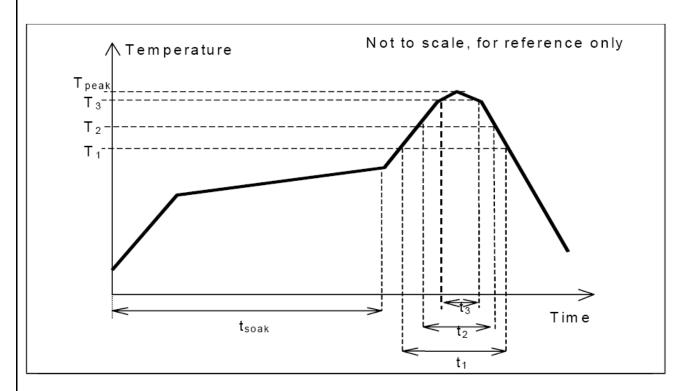


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7.0 RESISTANCE TO INFRARED REFLOW SOLDERING HEAT

Parameter	Reference	Specification
Average temperature gradient in		2.5°C/s
preheating		
Soak time	T _{soak}	2-3 minutes
Time above 217°C	T ₁	60 s
Time above 230°C	T ₂	50 s
Time above 250°C	T ₃	5 s
Peak temperature in reflow	T _{peak}	255°C(-0/+5°C)
Temperature gradient in cooling		-5°C/s max

Lead Free Process



This profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.



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8.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Note: each group test needs 5pcs samples.

Test No	Description	Requirement		
Group A-1				
6.0.1	Examination	Visual inspection; No physical damage		
6.1.1	LLCR	40mΩ Max all contacts		
6.2.2	Durability (preconditioning)	50 cycles; No physical damage		
6.3.5	Temperature Life			
6.1.1	LLCR	50mΩ Max all contacts		
6.0.1	Reseating	No physical damage		
6.1.1	LLCR	50mΩ Max all contacts		
6.0.1	Examination	Visual inspection; No physical damage		
Group A-2				
6.0.1	Examination	Visual inspection; No physical damage		
6.1.1	LLCR	40mΩ Max all contacts		
6.2.2	Durability (preconditioning)	50 cycles; No physical damage		
6.3.3	Thermal Shock			
6.1.1	LLCR	50mΩ Max all contacts		
6.3.1	Humidity			
6.1.1	LLCR	50mΩ Max all contacts		
6.0.1	Reseating	No physical damage		
6.1.1	LLCR	50mΩ Max all contacts		
6.0.1	Examination	Visual inspection; No physical damage		
Group A-3				
6.0.1	Examination	Visual inspection; No physical damage		
6.1.1	LLCR	40mΩ Max all contacts		



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Courability Geoconditioning Geoconditioni				
6.1.1 LLCR 50mΩ Max all contacts	6.2.2	•	50 cycles; No physical damage	
6.2.3 Vibration Discontinuity less than 1μs 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-4 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 50 cycles; No physical damage 6.3.5 Temperature Life (preconditioning) 6.1.1 LLCR 50mΩ Max all contacts 6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. Initial Reading	6.3.5	•		
6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-4 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 (preconditioning) 50 cycles; No physical damage 6.3.5 Temperature Life (preconditioning) 50mΩ Max all contacts 6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts Group A-7 6.1.1 LLCR No physical damage 6.1.1 LLCR 40mΩ Max all contacts More than the process of the physical damage Group A-7	6.1.1	LLCR	50mΩ Max all contacts	
Group A-4	6.2.3	Vibration	Discontinuity less than 1µs	
Group A-4 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 50 cycles; No physical damage 6.3.5 Temperature Life (preconditioning) 6.1.1 LLCR 50mΩ Max all contacts 6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. Initial Reading	6.1.1	LLCR	50mΩ Max all contacts	
6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 50 cycles; No physical damage 6.3.5 Temperature Life (preconditioning) 6.1.1 LLCR 50mΩ Max all contacts 6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. Initial Reading	6.0.1	Examination	Visual inspection; No physical damage	
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6.1.1 LLCR 6.2.2 Durability (preconditioning) 6.3.5 Temperature Life (preconditioning) 6.1.1 LLCR 50mΩ Max all contacts 6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.1 LLCR 40mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. Initial Reading	6.0.1	Examination	Visual inspection; No physical damage	
6.2.2 (preconditioning) 50 cycles; No physical damage	6.1.1	LLCR	40mΩ Max all contacts	
6.3.5 (preconditioning) 6.1.1 LLCR 50mΩ Max all contacts 6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.2.2	T	50 cycles; No physical damage	
6.3.6 Mixed Flowing Gases 6.1.1 LLCR 50mΩ Max all contacts 6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.3.5	· .		
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6.3.7 Thermal Disturbance 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.3.6	Mixed Flowing Gases		
6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.1.1	LLCR	50mΩ Max all contacts	
6.0.1 Reseating No physical damage 6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.3.7	Thermal Disturbance		
6.1.1 LLCR 50mΩ Max all contacts 6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.1.1	LLCR	50mΩ Max all contacts	
6.0.1 Examination Visual inspection; No physical damage Group A-7 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability No physical damage (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.0.1	Reseating	No physical damage	
Group A-7 Visual inspection; No physical damage 6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.1.1	LLCR	50mΩ Max all contacts	
6.0.1 Examination Visual inspection; No physical damage 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) No physical damage 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.0.1	Examination	Visual inspection; No physical damage	
 6.1.3 DWV No breakdown or flashover 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading 	Group A-7			
 6.1.1 LLCR 40mΩ Max all contacts 6.2.2 Durability (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading 	6.0.1	Examination	Visual inspection; No physical damage	
6.2.2 Durability (preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.1.3	DWV	No breakdown or flashover	
(preconditioning) 6.2.1 Insertion Force Within the range of 5N to 20N. 6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.1.1	LLCR	40mΩ Max all contacts	
6.2.1 Extraction force Within the range of 8N to 20N. Initial Reading	6.2.2	,	No physical damage	
ÿ	6.2.1	Insertion Force	Within the range of 5N to 20N.	
6.2.2 Durability 25cycles, No physical damage	6.2.1	Extraction force	Within the range of 8N to 20N. Initial Reading	
	6.2.2	Durability	25cycles, No physical damage	



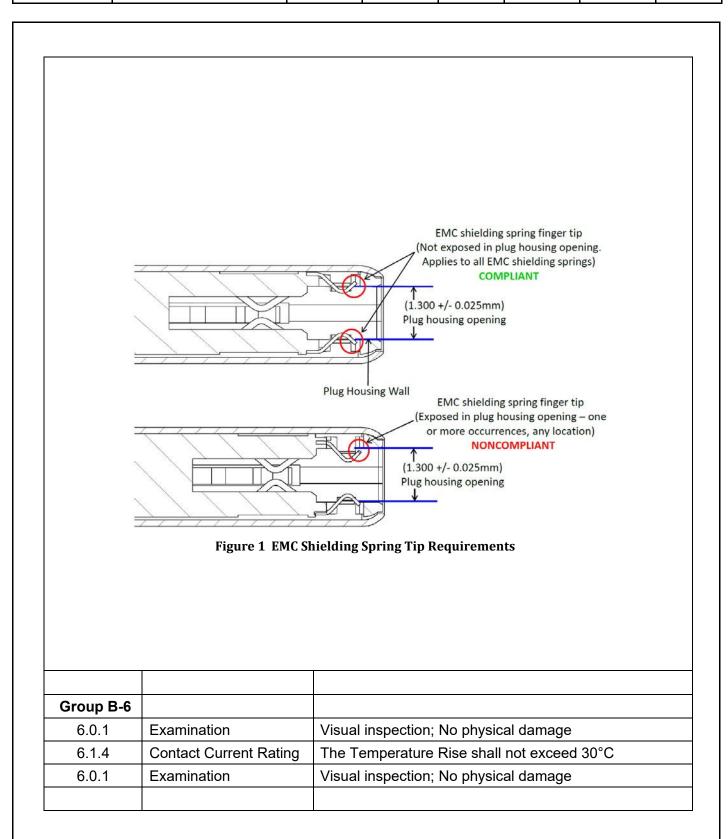
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Group B-5		
6.0.1	Examination	Visual inspection; No physical damage
6.2.4	4-Axis Continuity	Discontinuity less than 1µs
6.0.1	Examination	Visual inspection; No physical damage
Group B-1		
6.0.1	Examination	Visual inspection; No physical damage
6.1.2	Insulation Resistance	100 MΩ Max.
6.1.3	DWV	No breakdown or flashover
6.1.1	LLCR	50mΩ Max all contacts
6.2.1	Extraction force	Within the range of 6N to 20N.
		No physical damage (Replace the plug after 10K cycles)
		plug or socket 180° and then perform 2500cycles.
		180° and then perform 2500cycles. rotate the plug or socket 180° and then perform 2500cycles. rotate the
6.2.2	Durability	Perform 2468cycles and then rotate the plug or socket
6.2.1	Extraction force	Within: a) 33% of initial reading & b) 8N to 20N

	Test		
Title	EIA 364 Test	Severity or Condition of Test	Common Requirements
Critical Dimensions	18	According to USBIF requirement	All dimensions for component level qualification and overmold only for cable and adaptor assemblies.
EMC Shielding Spring Inspection	n/a	Visual inspection for compliance with Figure 1	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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Revision	Information	Page	Release Date
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А	First Release	-	17/04/2025

