

SEALING for Micro USB Receptacle 5Pos Water Proof 108–61242

23 Feb '15 Rev.A

- 1. Scope :
- 1.1 Contents

This specification covers the requirements for product performance, test methods and quality

assurance provisions of Sealing.

Applicable product description and part numbers are as shown in Appendix 1.

2. Applicable Documents:

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

- 2.1 AMP Specifications :
- A. 109-5000 : Test Specification, General Requirements for Test Methods
- B. 501-61075 : Test Report
- 2.2 Commercial Standards and Specifications
- A. ANSI/ EIA-364 Test Method for Electronic and Electric Parts
- B. Universal Serial Bus 2.0 Specification

Tyco Electronics AMP Korea Ltd.

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- 3. Requirements :
- 3.1 Design and Construction :

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

- 3.2 Materials :
- A. Housing (Sealing)

Material : Silicone

- 3.3 Ratings :
- A. Operating Environment

Operating Temperature Rating : - 30°C to +85°C (Including temperature rising)

Operating Relative Humidity : 95% Max. (non-condensing)

- * High Limit temperature includes Raised Temperature by Operation.
- B. Storage Environment

Storage temperature : - 30°C to +85°C (with Packing)

Storage Relitive Humidity : 15% to 70% RH

3.4 Performance Requirements and Test Descriptions :

The product shall be designed to meet the mechanical and environmental performance requirements specified in Fig. 1. All tests shall be performed in the Room Temperature (15~35°C), Relative Humidity (25~85%), Air Pressure(86~106kPa), unless otherwise specified.



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3.5 Test Requirements and Procedures Summary

Para.	Test Items	Requirements	Procedures
3.5.1	Examination of Product	No physical damage	Visual inspection
			No physical damage
		Mechanical Requirements	3
3.5.2	Durability	No physical damage and shall	10,000 cycles with 3kgf.
	(with WP jig condition)	meet requirements of	- Mechanically Operated : 500 cycle/hour
		subsequent tests.	with lubricant at the lock lever mating area
			- Manually Operated : 200 cycle/hour
	Vabration	No physical damage and shall	Apply for 2 hours in each 3 mutually
	(with WP jig condition)	meet requirements of	perpendicular axes(total 6 hours).
3.5.3		subsequent tests.	Frequency=10-55-10Hz
3.5.3			(Sweep time :1 minute max.)
			Amplitude=1.5mm, Current=100mA
			[EIA-364-28F Condition I]
	Random Vabration	No physical damage and shall	Apply for 15 minutes in each 3 mutually
	(with WP jig condition)	meet requirements of	perpendicular axes(total 45 minutes).
3.5.4		subsequent tests.	Frequency=50-2,000Hz
3.5.4			Power spectral density=0.02g2/Hz
			Current=100mA
			[EIA-364-28F Condition V Test Letter A]
	Shock	No physical damage and shall	Apply 3 successive shocks in each
	(with WP jig condition)	meet requirements of	direction along the 3 mutually
		subsequent tests.	perpendicular axes(total 18 shocks)
3.5.5			Pulse shape=harf sine
			Peak acceleration=490m/s2(50G)
			Duration of pulse=11ms
			[EIA-364-27B Condition I]
		Environmental Requiremen	ts
3.5.6	Thermal Shock	No physical damage and shall	Ta=-40°C for 2 hours; then change of
	(change of temperature)	meet requirement of	temp.=25°C , 5minute max.; then
	(with WP jig condition)	subsequent test.	Tb=+85°C for 2 hours. After 20cycles,
			cool to ambient for 2 hours.
3.5.7	Salt spray	No physical damage and shall	72 hours spray, At temp. 35±2 °C
	(with WP jig condition)	meet requirement of	R/H 90~95%, Salt NaCl mist 5%
		subsequent test.	After test wash parts and return to room
			ambient for 2 hours. [EIA-364-26B]



3.5.8	Waterproof IPX-5 (with WP jig condition)	Protected against water jets	Water projected at all angles through a 6.3mm nozzle at a flow rate of 12.5
			liters/min at a pressure of 30kN/m2 for 3 minutes from a distance of 3 meters.(Fig.8)
3.5.9	Waterproof IPX-8 (with WP jig condition)	Protected against water submersion	Submersion for 30 minutes at a depth of 1.5 meters. (Fig.8)

Fig.1(END)

The meaning of text "mechanical damage" in the table above is :

- No loosen between sealing and product / WaterProof jig.(or Set Case)

- No cracks and any deformation on sealing.

4. Product Qualification Test Sequence

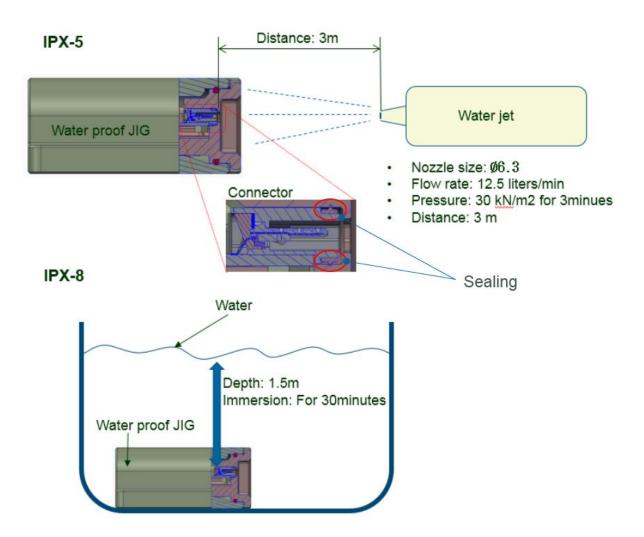
		Test Group			
Para.	Test Examination	1	2	3	4
		Test Sequence (a)			
3.5.1	Examination of Product	1,5	1,7	1,5	1,5
3.5.2	Durability	2			
3.5.3	Vabration		2		
3.5.4	Random Vabration		3		
3.5.5	Shock		4		
3.5.6	Thermal Shock				2
3.5.7	Salt spray			2	
3.5.8	Waterproof IPX-5	3	5	3	3
3.5.9	Waterproof IPX-8	4	6	4	4

a) Numbers indicate sequence in which the tests are performed.

Fig.2



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The applicable product descriptions and part numbers are as shown in Appendix.1.

Water Proof Sealing					
Description	Part Number				
Sealing	2108883-1				
Mating Product					
Description	Part Number				
Water Proof Receptacle 5pos. Standard/Onboard	2108877-1				

Appendix.1

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)