

## SPECIFICATION AND PERFORMANCE

<b>Series</b>	<b>214A-60W SERIES</b>	<b>File</b>	<b>214A-60W SERIES_SPEC_1</b>	<b>Date</b>	<b>2024/03/12</b>
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### Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of below table:

PART NUMBER	DESCRIPTIN
214A-R131	RJ45 PoE Type3 Jack, 1x1 Port, R/A Latch UP w/LED, 57V 720mA, 30u", 10/100 BASE-T, 60W
214A-R232	RJ45 PoE Type3 Jack, 1x1 Port, R/A Latch UP w/LED, 57V 720mA, 30u", 1000 BASE-T, 60W
214A-R333	RJ45 PoE Type3 Jack, 1x1 Port, R/A Latch UP w/LED, 57V 720mA, 30u", 2.5G BASE-T, 60W
214A-R434	RJ45 PoE Type3 Jack, 1x1 Port, R/A Latch UP w/LED, 57V 720mA, 30u", 5G BASE-T, 60W
214A-R535	RJ45 PoE Type3 Jack, 1x1 Port, R/A Latch UP w/LED, 57V 720mA, 30u", 10G BASE-T, 60W

### Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

### RoHS:

All material in according with the RoHS environment related substances list controlled.

### MATERIALS

NO.	PART NAME	DESCRIPTION
1	Insulator	LCP, UL94V-0, Black
2	Contact	Brass, 30u" Gold under Nickel plating
3	Shell	Brass, Nickel plated
4	LED	Steel solder tail, Tin plating
5	PCBA	FR-4

### RATING

Rated voltage	57 VDC
Rated current	720mA MAX.
Operating and Storage temperature	-40°C to +85°C
Durability	750 cycles

### ELECTRICAL

Item	Requirement	Test Condition
Isolation voltage	1000 VDC; one contact to all other contacts connected together 2250 VDS; all contacts connected together to	IEC 60512-4-4, Test 4a

	shield	
Turn ratio	TX = 1:1; RX = 1:1 @100kHz, 100mV	
Insertion Loss	Comply with Drawing	IEC 60512-27-100
Return Loss	Comply with Drawing	IEC 60512-27-100
Cross-Talk	Comply with Drawing	IEC 60512-27-100
Common mode Attenuation	Comply with Drawing	IEC 60512-27-100
DC Resistance	1.2 Ohms MAX.	

### MECHANICAL

Item	Requirement	Test Condition
Mating and unmating Force	Mate: 20N maximum Unmate: 20N maximum	Number of cycles: 10
Effectiveness of connector locking device	Tensile force: ≤ 50 N/ 60 s +/-5 s	IEC 60512-16-4, test 16d
Durability	750 cycles	IEC 60512-9-1

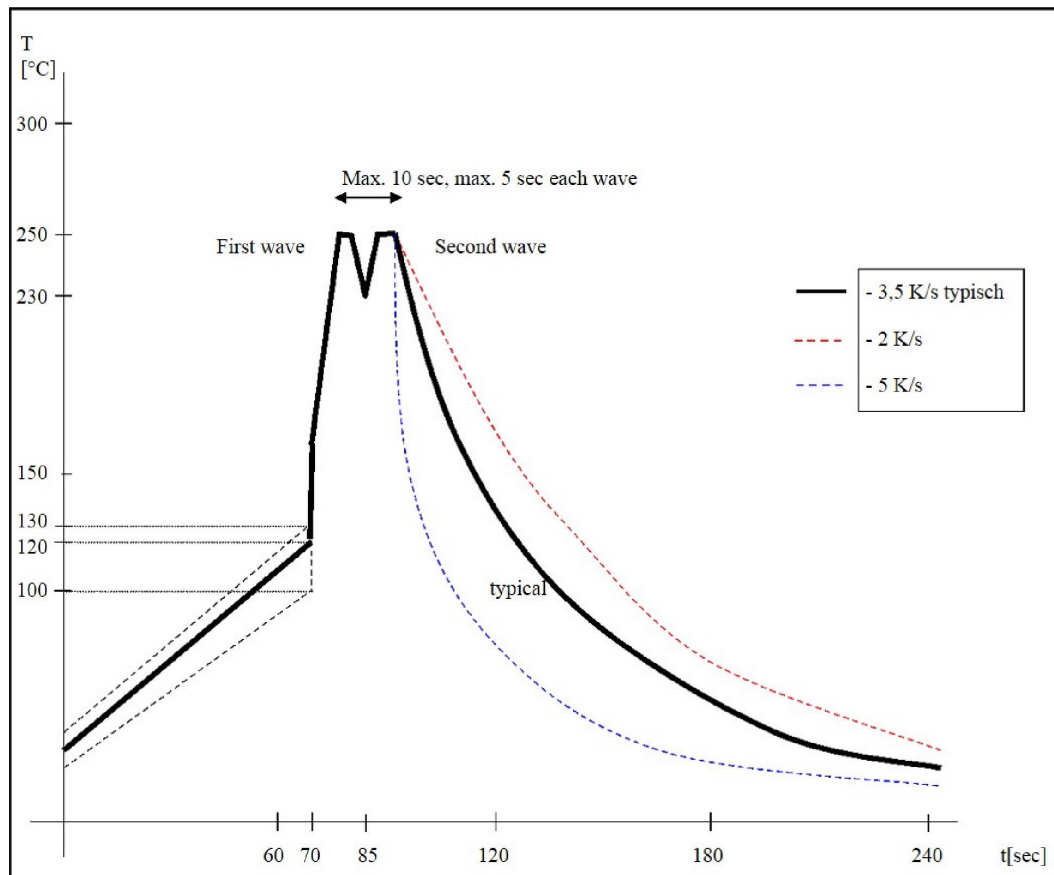
### ENVIRONMENTAL

Item	Requirement	Test Condition
Thermal shock	No breakdown	IEC 60512-11-4 Test 11e. Subject unmated to 5 cycles between -40°C for 30 minutes and 85°C for 30 minutes

### SOLDER ABILITY

Item	Requirement	Test Condition
Solderability	95% Min. of solder area	Soldering time: 4~5 second (Use flux) Solder Temperature: 245±5°C EIA-364-52

## Wave Soldering Profile



Preheating temperature: 25 ~ 140°C

Preheat Time: 80 seconds

Solder temperature: 245°C +5/-0 °C

Solder Immersion Time: Single Wave Simulation 5 +/-1 seconds

Dual Wave Simulation First Wave - 5 +/-1 seconds Second Wave - 5 +/-1 seconds