



# Plug Master Industrial Co., Ltd

<b>ENGINEERING</b>  <b>DEPT.</b>	<b>PRODUCT SPECIFICATION</b> <b>For P8 Series (8P8C) network plug</b> <b>technical specification</b>	<b>ReportNo.:</b> <b>HC20051C/2014</b> <b>Page:1 of 3</b>
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## 1 · SCOPE:

The test tested according to the standard foundation, tested aspect and obeyed allied editor request

## 2 · APPLICABLE STANDARDS :

EIA-364-23B Electrical Connector Tests

## 3. APPLICABLE SERIES NO.:

PMC#P8-001~P8-064 (8P8C Unshielded ,8P8C Shielded Modular Plug)

## 4. SHAPE,CONSTRUCTION AND DIMENSIONS

See attached drawings

## 5. MATERIALS:

Housing: Polycarbonate 94V2s 、 94V0s(UL NO:E205572)NO Poison

Contact: high and strong standard material of the power copper metal alloy

JIS C5191 Rs-Hs(PBR-2)

## 6. TEST ENVIRONMENT:

Test and measurements shall be conducted under

the below ambient conditions:

Room temperature: $25\pm 2^{\circ}\text{C}$

Room humidity: $55\pm 5\%$



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## 7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Withstand Voltage	Apply 1000V AC for 1 minute between adjacent terminal	No breakdown
7.2	Rated current and voltage	Operation temperature:-40~+125°C Suitable Wiring:AWG24-26	1.5A 125V AC(r.m.s.)
7.3	Contact Resistance	Dry circuit of DC 20mV MAX, 100mA MAX	20MΩ MAX
7.4	Insulation Resistance	Apply 500V DC for 1 minute between adjacent terminal	500MΩ MIN

## 8.MECHANICAL PERFORMANCE

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Insert Force	Insert applicable jack at a rate of 10mm/second	20N MAX
8.2	Retention Force	Pull out applicable plug at a rate of 10mm/ second	75.46N MIN
8.3	Durability	Strike handle 1000times at a rate of 30 times/minute	No rupture、 No crack



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## 9.ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Salt Spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Salt Solution Density: $5 \pm 1\%$ Duration: $48 \pm 4$ hours Measurement must be take after Water rinse	Contact resistance: 20 MΩ MAX
9.2	Vibration	1.5mm 10-55-10HZ/minute each 2 hours for X,Y and Z directions	Appearance: No damage Discontinuity: 1 micro second MAX
9.3	Heat aging	$96 \pm 2^{\circ}\text{C}$ for 96 hours	Contact resistance: 20 MΩ MAX
9.4	Humidity	$40 \pm 2^{\circ}\text{C}$ ,90~95% RH,96 hours	Contact resistance: 30 MΩ MAX
9.5	Thermal Shock Test	$-25 \pm 3^{\circ}\text{C}$ for 30 minute $+95 \pm 3^{\circ}\text{C}$ for 30 minute on Continuous for 25 cycles	Contact resistance: 20MΩ MAX Insulation resistance: 500 MΩ MIN Withstand Voltage: 1000V AC/Minute

<b>APPROVE</b>  Jason	<b>CHECK</b>  Chris	<b>TEST</b> ZhaoQingFeng 2014.06.13
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