SPECIFICATION

REV: XA

DATE: 04-Dec-2017

TITLE: LP24-RJ45 series connector

	APPROVED	CHECKED	PREPARED	
NAME	Ferry	Robin	William	

• Material Designation: LP24-RJ45 series connector





• Ratings:

Item	Standard
Operating voltage	AC 42Vrms maximum
Rated current	1. 2A
Working temperature	-25℃~+85℃, 85% RH Max
Storage temperature	-25℃~+85℃, 85% RH Max

• Test condition:

The test and measurement, unless otherwise specified, shall be carry out at a temperature of 15 to $35\,^{\circ}$ C, Relative humidity of 25 to 85%, and atmospheric of 86 to 106kPa. However, when any doubt arises on the judgment value it, the test and measurement shall be carry out at a temperature of $20\pm2\,^{\circ}$ C, relative humidity of 60 to 70%, and atmospheric pressure of 86 to 106Pa.

Technical data:

■ Electrical:

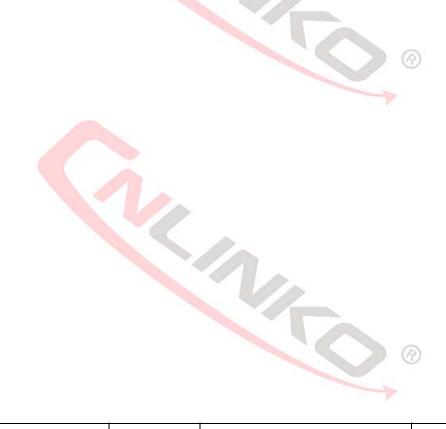
NO.	Item	Test Method	Requirement
1. 1	Contact Resistance	Mate connectors, Measure by dry circuit, 20mV Max, 100mA {EIA-364-23}	40mΩ Max (initial)
1. 2	Insulation Resistance	Unmated connectors, apply 500V DC between adjacent terminal or ground. {EIA-364-21}	500MΩ Min
1. 3	Withstanding Voltage	Unmated connectors, apply 1000V AC for 1 minute between adjacent terminal or ground. {EIA-364-20}	No Break down Current Leakage: <0.5mA

■ Mechanical:





NO.	Item	Test Method	Requirement
2. 1	Insertion force	Measure mating force necessary to mate connector. Operation speed: 12.5mm/minute {EIA-364-13}	22.25N {2.27kgf} Max
2. 2	Withdrawal force	Measure unmating force necessary to mate connector. Operation speed: 12.5mm/minute {EIA-364-13}	
2. 3	Normal force	Measurements done in assembled connector, with nominal deflection, 5 samples of each unique contact. {EIA-364-04}	O. 1N min
2. 4	Retention Force	Perform a forced disassembly axial load to each contact at a maximum rate of 25.4 millimeters (1.0 inch) per minute until The contact retention features fail and allow the contact to become dislodged from their proper position in the housing. Reference to EIA-364-29 Method C - Test to Destruction	5N min



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NO.	Item	Test Method	Requirement	
			Appearance	NO damage
2. 5	Durability	Mated and unmated connectors up to 750 cycles at a maximum rate of 200 cycles per hour {EIA-364-09}	Contact Resistance	40mΩ Max
			Insertion force	
			Withdrawal force	
2.6 Vibratio		Amplitude: 1.52mm. Sweep time: 50~2000~50Hz Duration: 10 minutes in each(total of 30	Appearance	NO damage
	Vibration	minutes)X,Y,Z azes. {EIA-364-28 Test condition V test letter A}	Discontinuity	1 Microsecond Max.
2.7	Mechanical	Pulse width: 11 msec; Mate connectors to 490m/s2 50g's half-sine shock pulses of 11ms duration. Three shocks in each	Appearance	NO damage
	Shock	direction applied along three mutually perpendicular planes for a total of 18 shocks {EIA 364-27B}	Contact Resistance	40mΩ Max

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	■ Environment	CLI •		
NO.	Item	Test Method	Requiremen	nt
		Temperature: 40±2°C	Appearance	NO damage
3.1 Humid		Relati <mark>ve Hum</mark> idity:90~95% Duration:4 cycles (96 hours)	Contact Res	40mΩ Max
	Humidity test	Upon completion of the test, specimens conditioned at ambient room conditions for 1 {EIA-364-31	Insulation Resistance	100MΩ Min
		Test condition A method III}	Withstandin Voltage	No breakdo
3. 2	Salt mist spray	Salt concentration: 5%±1% Temperature: 35±2°C; Testing time: 24±2 hours ,After salt is removed by running water and a drop is removed, it is measured. {EIA-364-26A, condition A}	NO damage Appearance extremely r	
3.3 Thermal shock	Thormal shock	Mate connentors together and perform the test as follows. 10 cycle of: A)-55℃ for 30 minutes;	Appearance	NO damage
	Thermai shock	B) +85°C for 30 minutes; $\{EIA-364-32, Condition I\}$	Contact Res	40mΩ Max
3.4 Heat test	Heat test	The connector is exposed to $70\pm2^{\circ}$ C atmosphere for 96 hours. After testing it shall be left alone for 1 to 2 hours in room ambient.	Appearance	NO damage
	neat test		Contact Res	40mΩ Max
3.5 Cold test	The connector is exposed to $-40\pm2^{\circ}\text{C}$ atmosphere for 96 hours. After testing	Appearance	NO damage	
	it shall be left alone for 1 to 2 hours in room ambient.	Contact Res	40mΩ Max	
3. 6	Waterproof Test	 The connector is mounting with a sealing Test box which the plug-in hole is opening. Completely immerse the full test boxes into water. The connector plug-in hole is located 1000 mm below the surface of the water. Under water test duration is 30 min. After immersion, allowed dry the receptacle plug-in hole by pressure air before dielectric withstanding voltage test. 	No water pe into the te by visual i after test.	st boxes

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• Material Introduction:

■ Basic Information

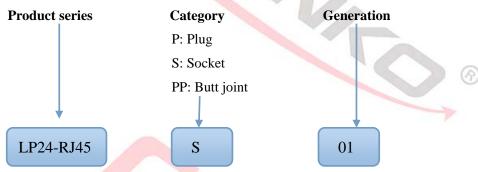
Complying with class D or CAT 5e standard of TIA/EIA 568B and ISO/IEC11801, data transfer rate is up to 10Gbit/s. Multi-style connecting modes. 1/4 bayonet connect (YT01), quickly plug /unplug(YT09/04), can be used in harsh environments. Shield system with high frequency noise immunity and electromagnetic interference protection.

■ Packing and Storage:

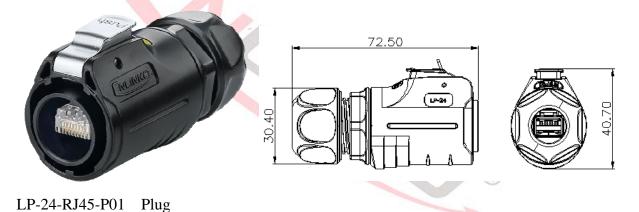
The production are packed in plastic bag, The packing list must be set in every carton, which has been given clear information of material designation, part number, production order number, packet quantity and total product quantity. The packaged production should be stored in the storeroom ,in which Environment Temperature is $-40\,^{\circ}\text{C}$ ^ $+80\,^{\circ}\text{C}$, Relative humidity $\leq 85\%$, no acidic, alkaline and other corrosive gases.

- Mating Type.
 - Mated with: LP24-RJ45 connector (male)
- Applicable Standards: Meeting FCC、TIA/EIA 568、MIL、IEC、CNS Standards

PRODUCT CODE



• Outline dimension



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