



## L25 – STRAIGHT CONNECTORS

### 1: Appearance&Environment Description

1.1 Reference dimension (L\*W\*H) (mm): the drawing is only for reference, please make the object as the standard

#### 1.2 Application Environment

Operating Temperature : -45°C~105°C  
 Atmospheric pressure: (86~106) Kpa  
 Waterproof Level: IP68

Storage Temperature: -25°C~85°C  
 Humidity ≤ 90%  
 Pin: 3pin

### 2: Product Structure

- 2.1 Wire Mean: screw
- 2.2 Max OD:  $\Phi$ 16mm
- 2.3 Contact Material: Copper Nickel Zinc plated
- 2.4 Material: Nylon, V-0
- 2.5 Waterproof Ring: silica gel
- 2.6 Glue: Epoxy Resin
- 2.7 Max Current Rating: 35A
- 2.7 Voltage Rating: 500V AC

### 3: Test

- 3.1 Breakdown Voltage: In accordance with method 1005 in GJB1217-1991, under the normal temperature and atmospheric pressure, the valid voltage between conductor and insulator is AC 1500V/50Hz, stand 1 min have no breakdown or flashover, the leakage current is less than 2mA
- 3.2 Insulation Resistance: In accordance with method 1005 in GJB1217-1991, under the normal temperature and atmospheric pressure, the voltage between conductor and insulator is DC500V, the insulation resistance is more than 100M $\Omega$ .
- 3.3 Salt Spray Test: In accordance with method 1001 in GJB1217-1991, the unplug connectors don't be corrosion at the temperature 35 $\pm$ 2°C with 5% NaCl liquor spray test after 48 hours.
- 3.4 Waterproof performance: under the normal temperature, plug the male female connector put into the 1m depth water inner connector have no permeate happened after 0.5 hour.
- 3.5 Adapt to Environment : Connector achieve all requirement of the form 1 after test .
- 3.6 Test Way: Except other regulation, the normal temperature: 15°C~35°C, humidity: 45%~75%, Atmospheric pressure: 86KPa~106KPa

Form

Project		Test Condition		Test Way	Requirement
2	Low temperature	Storage temperature, °C	-25 $\pm$ 2	GB/T2423.1-2001中"Test Ab"	
		Durability time, h	16		
		Resume time, h	2		
3	High temperature	Storage temperature, °C	85 $\pm$ 2	GB/T2423.2-2001中"Test Bb"	
		Durability time, h	16		
		Resume time, h	2		
4	constant temperature and moisture	operating temperature, °C	85 $\pm$ 2	GB/T2423.9-2001中"Test Cb"	
		Relative moisture, %	93 $\pm$ 3		
		Durability time, h	48		
5	vibration	Resume time, h	2	GB/T2423.10-1995中"Test Fc"	
		frequency, Hz	10~55		
		amplitude, mm	0.35		
5	vibration	Vibration direction	three mutually perpendicular direction	GB/T2423.10-1995中"Test Fc"	
		Durability time as time of circular of sweep frequency	10 time		
6	Free fall	Height, mm	300	GB/T2423.10-1995中"Test Fc"	
		Time	2		

Dimension

