

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-90-2012-1
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* 2012 SERIES CONNECTORS SYSTEM *

This specification describes the characteristics , test condition and particular sanctions applicable to LEOCO 2012 series board in connector and 2012 series crimp board in terminal.

1. Electrical performance 电气特性:

ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法及条件	REQUIREMENT 要求
1-1	Rated voltage and current 额定电压电流		AC 250V 2A DC 250V 2A
1-2	Dielectric Strength 耐电压	When applied AC 1000V 1 minute between Adjacent terminal.	No change
1-3	Insulation Resistance 绝缘电阻	When applied DC 500V between adjacent Terminal or ground.	1000 Megaohms min.

2. Mechanical Performance 机械特性:

ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法及条件	REQUIREMENT 要求
2-1	Wire size 线材规格	Specified wire size.	Accepts AWG #30--#24.
2-2	Terminal Crimp Strength 端子铆合力	When crimped AWG #24 size wire	4.5 Kg min.
		When crimped AWG #26 size wire	2.7 Kg min.
		When crimped AWG #28 size wire	1.5 Kg min.
		When crimped AWG #30 size wire	1.0 Kg min.
2-3	Terminal insertion Force 端子插入力	Insertion speed 25±3mm per minute into housing.	Kg per contact Max.
2-4	Terminal retention force 端子保持力	Retention speed 25±3mm from housing per minute.	1.5 kg min.

3.Environmental Performance 环境特性:

3-1	Temperature Rise 升温测试	Then carried the rated current	30 deg. C max.
3-2	Vibration 振动性	1.5mm 10-55-10hz/minute each 2 hours for x,y and z directions	Discontinuity: 1 micro second max , Appearance :no damage
3-3	Shock 冲击测试	50g , each 3 times for x,y & z Directions Applying 0-1 A-DC	Discontinuity: 1 micro second max , Appearance :no damage
3-4	Solder ability 着锡性	Soldering time :5±0.5 second Soldering pot:245±5 deg. C	Mininum:75% of immersed area
3-5	Resistance to soldering heat 耐高温焊接	Solder time :5±0.5 second Solder pot:260±5 deg. C	No damage

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Item 项目	Description 内容	Test Method & Condition 测试方法及条件		Requirement 要求	
3-6	Heat aging 耐高温老化测试	85±2 deg. C. 500 hours		No damage	
3-7	Humidity 耐湿性	40±2 deg. C.90-95% rh, 96 hrs measurement must be taken within 30 min. after tested.		Contact resistance: Less than twice of Initial.	
				Dielectric strength : To pass para 1-2	
				Appearance: No damage	
3-8	Temperature cycling 温度循环测试	One cycle consists of : (1) -25±3 deg. C 30 min (2) Room temp. 10-15 min (3) 85±2 deg. C 30 min (4) Room temp. 10-15 min		Appearance: No damage	
3-9	Salt Spray 盐雾测试	Temperature : 35±3 deg. C Solution : 5±1% Spray time : 48±4 hours Measurement must be taken after water Rince.		Appearance: No damage	
3-10	NH4 gas 耐碱性	40 minutes in saturated ammonia gas by 28% liquid ammonia at 25±2 deg. C		Appearance: No damage	
4. Ambient temperature range 温度范围 : -25 to +85 degree c.					
5. construction and dimensional 产品结构与尺寸: see attached drawing.					
APPR BY:		CHKD BY:		SPEC BY:	