

<b>LEOCO CORPORATION</b>	<b>PRODUCTION SPECIFICATION</b>	<b>No.</b>	<b>S-09-1293</b>	<b>Rev.</b>	<b>1</b>
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\* 1293 Series Insulation Displacement Connector System \*

This product specification contains the test method, the general performance and requirements for 1.27mm IDC connector male on wire type

1. Construction and dimensions shall be in accordance with the referenced drawings

产品结构及尺寸依据所提供的图面

2. Characteristics 特性:

Current rating 额定电流: 1A AC/ DC

Voltage rating 额定电压: 30V AC/ DC

Temperature rating 额定温度: -40°C ~ +85°C

Applicable wire 适用线材: AWG 28, UL style 2651

**3. Electrical Performance 电气性能**

Item 项目	Description 内容	Test Method & Condition 测试方法及条件	Requirements 要求
3-1	Contact Resistance 接触阻抗	EIA-364-23 Subject mate connects assembled in housing to 20mV max open circuit at 100mA max 将待测物接至电压不大于 20mV, 开路电流最大为 100mA 电路中	20mΩmax 不大于 20mΩ
3-2	Insulation Resistance 绝缘电阻	EIA-364-21 Subjected to 500V DC for 1 minute between adjacent terminals 相邻端子施加 500V 直流电 1 分钟	1000MΩ min 不小于 1000MΩ
3-3	Dielectric Withstanding Voltage 耐电压	EIA-364-20 Unmated connectors shall be tested by supplying 500V AC (rms) for 1 minute between adjacent contacts 施加 500V(rms)交流电 1 分钟于相邻端子	No evidence of damage and flashover 无明显损坏及火花产生

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<b>4. Mechanical Performance 机械性能</b>							
Item 项目	Description 内容	Test Method & Condition 测试方法及条件			Requirements 需求		
4-1	Terminal Retention Force 端子保持力	EIA-364-29 Pull out at a speed of 25±3mm/minute 拔出速率: 25±3mm/分钟			0.3kgf/contact min 每个端子不小于 0.3kgf		
4-2	Axial strength of wire termination 线端轴向拉力	EIA-364-29 Pull out at a speed of 25mm/minute 轴向拔出速率: 25±3mm/分钟			1kgf/contact min 每个线端不小于 1kgf		
4-3	Vibration 振动测试	EIA-364-28 Frequency Range 频宽: 10~55Hz Amplitude 振幅: 1.52mm Period 周期: 2 hours for each direction			1. No physical damage 无损坏 2. Contact resistance shall be 20mΩ max 接触阻抗不大于 20mΩ 3. Discontinuity shall be 1μs max 中断不超过 1μs		
4-4	Solderability 焊锡性	EIA-364-52 Soldering Temperature: 245±5°C Soldering Time: 5±0.5 seconds 焊接温度: 245±5°C 焊接时间: 5±0.5 秒			Continuous solder coating with a minimum 95% coverage. 连续的焊料涂层面积不小于 95%		
4-5	Resistance to Solderability Heat 耐焊锡热	EIA-364-56 Temperature: 260±5°C Immersion Duration: 5±0.5 seconds 温度: 260±5°C 浸入时间: 5±0.5 秒			No physical damage 无损坏		
4-6	Durability 耐久力	EIA-364-09 Connector shall be subjected to 30 cycles of insertion and withdrawal at a rate of 10 cycles/minute 产品插拔 30 次, 每分钟插拔 10 次			1. No physical damage 无损坏 2. Contact resistance shall be 20mΩ max 接触阻抗不大于 20mΩ		

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<b>5. Environmental Performance 环境性能</b>							
Item 项目	Description 内容	Test Method & Condition 测试方法及条件			Requirement 需求		
5-1	Humidity 耐湿性	EIA-364-31 Method II Test Condition A Subject unmated connectors to 96 hours at 40±2°C with 90~95% RH 在温度 40±2°C, 相对湿度 90~95% 下经 96 小时 试验后常温干燥			1.No physical damage 无损坏 2.Insulation resistance shall be 1000MΩmin 绝缘阻抗大于 1000MΩ 3.Dielectric withstanding voltage: No evidence of damage and flashover 耐电压测试无损坏火花		
5-2	Salt Spray 盐雾测试	EIA-364-26 Test Condition B Connectors shall be tested by exposing to 48 hours at 35±2°C and density 5% in weight 在 35±2°C, 盐水浓度 5% 经 8 小时喷雾后, 经 常温水洗, 常温干燥			1. No physical damage 无损坏 2. Contact resistance less than twice of initial 接触阻抗小于初始值 2 倍		
5-3	Thermal Shock 冷热冲击	EIA-364-32 Connectors shall be subjected for 5cycles between -40°C and +105°C with 15 minutes at both extreme temperatures 在-40°C ~ +85°C 循环 5 次, 在-40°C, +85°C 的时间为 15 分钟			1. No physical damage 无损坏 2. Insulation resistance shall be 1000MΩmin 绝缘阻抗大于 1000MΩ 3. Dielectric withstanding voltage: No evidence of damage and flashover 耐电压测试无损坏火花		
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