

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96-7555-4
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* 7555 Series And 7556 Series Connector *

This product specification contains the test method ,the general performance and requirements for interconntection system connector. With 7555 series socket ,7556 series header and 7553 series terminal .

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

产品结构 and 尺寸依据所提供的产品图面.

2. Characteristics 特性;

Current rating 额定电流 : 5 A DC

Voltage rating 额定电压: 250 v AC ,

Temperature rating 额定温度 :-25°C-----+105°C

Applicable wire 适用线材: conductor construction size # 18---# 26.

3. Electrical performance 电气特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需 求
3.1	Contact Resistance 接触阻抗	It should be tested in accordance with method EIA-364-23	Initial: 20 mΩ max After environmental test: 40 mΩ max
3.2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with method EIA-364-21	Initial: 1000 MΩ min After humidity test: 500 MΩ min
3.3	Dielectric withstanding voltage 耐电压	Unmated connector shall be tested in accordance with method EIA-364-20. When the AC 500 V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover

4. Mechanical Performance 机械特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需 求
4.1	Crimp tensile strength 铆合张力强度	Pulling load shall be applied between correctly crimped contact and wire at a constant speed .pulling speed :25 mm/minute.	AWG #18: 10.0 kgf min. AWG #20: 6.0 kgf min. AWG #22: 4.0 kgf min. AWG #24: 2.5 kgf min..
4.2	Contact insertion force 接触插入力	The force required to insert a contact into a housing :inserting speed:25 mm/minute.	1.2 kgf max.
4.3	Contact removal force 接触拨出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm/minute.	3.0 kgf min.

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ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
4.4	Insertion force 插入力	Housing with contact mating header at a constant speed of 25 mm/minute.	2.0 kgf max
4.5	Withdrawal force 拨出力	Housing with contact mating header ,pull out from header at speed 25 mm/minute.	0.5 kgf min
4.6	Durability 耐久性	It should be tested in accordance with method EIA-364-09. connectors shall be subjected to 100 cycles of insertion and withdrawal.	No defects. Contact resistance shall be 20 mΩ max
4.7	Post retention force 保持力	The end of a post shall be pushed in a perpendicular to base housing at a constant speed of 25 mm/minute.	1.5 kgf min
4.8	Vibration 振动测试	The connector mated PCB shall be vibrated in accordance with method EIA-364-28. There shall be no current discontinuity longer than 1 microsecond during the test . Frequency : 10-55-10 hz/min. Amplitude: 1.52mm Period : 2 hours for each direction.	No evidence of loosening of parts or electric discontinuity . Contact resistance less than twice of initial.

5. Environmental Performance 环境特性 :

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
5.1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method EIA-364-31. Temperature: 40±2℃ Humidity:90—95% (RH) Period: 96 hours	No damage. Contact resistance Less than twice of initial. Insulation resistance:lvchghghdara.3-2 Dielectric withstanding voltage: to pass paragraph 3-3
5.2	Salt spray 盐雾试验	Connector shall be tested in accordance with method EIA-364-26. Temperature: 35±2℃ Density: 5% in weight. Period: 48 hours.	No damage. Contact resistance less than twice of initial.

SHEET:

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ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
5.3	Thermal shock 冷热冲击	Connector shall be subjected to thermal shock cycling in accordance with method EIA-364-27. One cycle consists of: -25°C for 30 minutes . +105°C for 30 minutes. Times of cycle:25 cycles.	No damage. Contact resistance less than twice of initial. Insulation resistance:to pass paragraph.3-2. Dielectric withstanding voltage:to pass paragraph3-3
5.4	Solderability 着锡性	Connector termination ends shall be checked for solderability in accordance with method EIA-364-252. Solder temperature : 245±5°C Immersion period :5±0.5 sec.	No damage. Minimum: 95% of immersed area.
5.5	Resistance to soldering heat 附着耐热性	Specimen shall be mounted on PCB. Solder temperature : 260±5°C Immersion period :5±0.5 sec.	No damage and deformation

6. Mating force and unmating force:

unit: Kgf

Number of circuits	Mating force	Unmating force (min)
	Initial max Initial	Initial
2	6.4	1.05
3	7.9	1.20
4	8.9	1.30
5	9.3	1.40
6	10.8	1.70

APPR BY :

CHKD BY :

SPEC BY :SMILE