LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-11-2017-1

＊ 2017 SERIES CONNECTOR ＊

This product specification contains the test method, the general performance and requirements for interconnection systems connector with 2017 series socket, 2017 series header and 2017 series terminal.

1. Construction and dimensions shall be in accordance with the referenced drawings.
   产品结构和尺寸依据所提的产品图面
2. Characteristics 特性:
   Current rating 额定电流: 2A DC
   Voltage rating 额定电压 : 125V AC
   Temperature rating 额定温度: -25℃ ~ +105℃
   Applicable wire 适用的线: conductor construction size #24 ~ #30
3. 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
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method EIA-364-23	Initial : 20 mΩ max. After environment -al tested: 40 mΩ max.
3-2	Insulation Resistance 绝缘电阻	It should be. tested in accordance with method EIA-364-21	Initial : 1000 MΩ min. After humidity tested: 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 500V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover,

4. 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
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 #24: 2.5kgf min. AWG #26: 1.5kgf min. AWG #28: 1.0kgf min. AWG #30: 0.8kgf 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.	0.9 kgf max.
4-3	Contact removal force 接触拔出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm / minute.	1.0kgf min.
4-4	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 25mm/minute.	1.0kgf min.

Item 项目	Description 内容	Test Method & Condition 测试方法及条件	Requirement 要求
4-5	Insertion force 插入力	Housing with contact mating header, at a constant speed of 25mm/minute.	0.65 kgf max.
4-6	Withdrawal force 拔出力	Housing with contact mating header, Pull out from header at speed 25mm/minute.	0.1kgf min.
4-7	Durability 耐久力	It should be tested in accordance with method EIA-364-09 Connector shall be subjected to 100 cycles Of insertion and withdrawal.	No defects. Contact resistance shall be 20 mΩ max.
4-8	Vibration 振动性	The connector mated PCB shall be vibrated in accordance with method EIA-364-28 tested condition B. 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:			
5-1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method EIA-364-31 test procedure type I condition B. Temperature:40±2℃ Humidity:90-95% (RH), Period:96 hours	No damage. Contact resistance: Less than twice of Initial. Insulation resistance: 1vchghghdara .3-2. Dielectric withstanding voltage: to pass para 3-3.
5-2	Salt Spray 盐雾测试	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.
5-3	Solder ability 着锡性	Connector termination ends shall be checked for solder ability in accordance with method EIA-364-52 Solder temperature:245±5℃ Immersion period:5±0.5sec.	No damage Minimum:95% of immersed area.

Item	Description	Test Method & Condition	Requirement
5-4	Resistance to soldering heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature:255±5℃ Immersion period:5±0.5sec.	No damage and deformation.

6. 2017 Series Mating force and unmating force:

Unit:Kgf

Number of Circuits	Mating Force Initial(max.)	Unmating Force Initial (min.)	Unmating Force 50^{th} (min.)
2	2.50	0.80	0.60
3	3.00	0.80	0.60
4	3.50	1.00	0.80
5	4.00	1.00	0.80
6	4.50	1.20	1.00
7	5.00	1.20	1.00
8	5.50	1.40	1.20
9	6.00	1.40	1.20
10	6.50	1.60	1.40
11	7.00	1.60	1.40
12	7.50	1.80	1.60
13	8.00	2.00	1.80
14	8.00	2.00	1.80
15	8.00	2.00	1.80
16	9.50	2.60	2.20