

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-17-4035	Rev	1
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* 4035 SERIES CONNECTOR *

This product specification contains the test method, the general performance and requirements for interconnection systems connector with 4035 series Connector.

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

产品结构尺寸依据所提的产品图面

2. Characteristics 特性:

Current rating 额定电流: Solid wire: AWG24 5.0A AC/DC
AWG22 5.0A AC/DC
AWG20 6.0A AC/DC
AWG18 9.0A AC/DC
Strand Wire: AWG20 6.0A AC/DC
AWG22 5.0A AC/DC

Voltage rating 额定电压 :300V AC/DC

Temperature rating 额定温度: -40°C~+105°C

Applicable wire 适用的线:solid wire size: AWG 24 ~ 18

Strand wire size: AWG 22~ 20

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 : 10 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.
3-3	Dielectric withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method EIA-364-20 When the AC 1600V rms for one minute applied between adjacent contacts.	No breakdown
3-4	Temperature Rise 温升测试	Apply specified current to contacts connected in series. Measure change of temperature on contact using thermocouples or 4 hours. Test Method : EIA-364-70B Conditions 1 Method 1	Temperature rise value : 30°C (Max.)

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	Wire Mating Force 接触插入力	Measure force necessary to mate between the counterpart connectors. Testing speed : 25±3mm / minute.	1.5 kgf max.
4-2	Wire Un-mating Force 接触拔出力	Measure force necessary to unmate between the counterpart connectors. Testing speed : 25±3mm / minute.	AWG 24: 2.85kgf min. AWG 22~18 : 5.10kgf min.

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Item 项目	Description 内容	Test Method & Condition 测试方法及条件		Requirement 要求			
4-3	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 electrical discontinuity more than 1μ s. No damage.			
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:60±2℃ Humidity:90-95% (RH), Period:240 hours		No damage. Insulation Resistance : 100MΩ (Min.) Voltage proof : 1600V r.m.s.1 minute. No breakdown. Contact Resistance : 30 mΩ (Max.)			
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 : Terminal or contact (Pressing before plated for 48 hours); Terminal or contact (Pressing after plated for 8 hours);		No damage. Contact Resistance : 30 mΩ (Max.)			
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±2℃ Immersion period:3±0.5sec.		No damage Minimum:95% of immersed area.			
5-4	Resistance to soldering heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature:260℃ Max Immersion period: 10sec Max.		No damage and deformation.			
APPROVAL BY:CHARD		CHECKED BY:ANGEL			SPEC BY:BRIAN		