

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-98-5200-3
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\* 5200 F Series and 5200 M Series Connector System \*

This product specification contains the test method, the general performance and requirements  
For wire to wire power connector with 5200 F series receptacle connector and mates with 5214 crimp terminal, 5200 M series plug connector mates with 5213 crimp 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: 5A AC

Voltage rating 额定电压: 250V DC

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

Applicable wire 适用线材: conductor construction size #16 ~ #20

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 3004.1 of MIL-STD-1344A.	20 mΩ max.
3-2	Insulation Resistance 绝缘电阻	It should be tested in accordance with Method 3003.1 of MIL-STD-1344A. or method 302, condition B of MIL-STD-202F	1000MΩ min.
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connectors shall be tested in Accordance with method 3001.1 of MIL-STD-1344A when the AC 1500 V rms for one minute applied between adjacent contacts.	No evidence of break-Down 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 #16: 10.0 kgf min AWG #18: 10.0 kgf min. AWG #20: 8.0 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.	1.50kgf 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.	4.0 Kgf min.

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4-4	Insertion Force 插入力	Receptacle with contact mating plug at a constant speed of 25 mm / minute.		1.5 kgf max.per contact	
4-5	Withdrawal Force 拨出力	Housing with contact mating header, Pull out from header at speed 25 mm / minute.		1.20 kgf min.per contact 0.60 kgf min.per contact after 30 cycles	
4-6	Durability 拨出力	It should be tested in accordance with method 2016 of MIL-STD-1344A. Connector shall be subjected to 100 cycles of insertion and withdrawal		No defects. Contact resistance shall be 20mΩ max	
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 1002.2 of MIL-STD-1344A test procedure type I condition B. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.		NO damage. Contact resistance less Than twice of initial. Insulation resistance: to pass para. 3-2. Dielectric withstanding voltage: to pass para 3-3	
APPR BY:		CHKD BY:		SPEC BY:	