LEOCO CORPORATION PRODUCT SPECIFICATION No. S-96-6740 Rev 5

* 6740 & 6741,6742& 6745 Series Power Connector *

This product specification contains the test method, the general performance and requirements for 4.20mm(.165")pitch diameter connector. 6740 series receptacle & plug connector and 6741, 6742 series crimp terminal and 6745 series plug & pin header.

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

(产品结构和尺寸依据所提供的产品图面.)

2. Characteristics (特性):

Voltage rating (额定电压): 600V

Current rating (额定电流): Wire gage 2 4-6 8-10 12-24 ─ Circuits

Applicable wire: ------

8A 7A #18 9A 6A #20 6A 5A 5A 7A 5A 4A 4A 5A 3A 3A 4A 4A 2A 3A 2A 3A

3. Electrical performance (电气特性):

3-2 I	Contact Resistance (接触阻抗)	It should be tested in accordance with	Initial, 00 mg and
	✓ 4~ √ / 10-24 (1-77-4 / 10 / 1)	method EIA-364-23.	Initial: 20 mΩ max.
(Insulation Resistance (绝缘阻抗)	It should be tested in accordance with Method EIA-364-21	Initial: 1000MΩ min.
\ \	Dielectric Withstanding Voltage (耐电压)	Unmated connectors shall be tested in Accordance with method EIA-364-20 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 #18: 10.0 kgf min. AWG #20: 6.0 kgf min. AWG #22: 4.0 kgf min. AWG #24: 2.5 kgf min. AWG #26: 1.5 kgf min.	
4-2	Contact Insertion Force (端子插入力)	The force required to insert a contact into a housing. Inserting speed: 25 mm / minute.	1.50 Kgf max.	

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Item	Description (内容)	Test Method & Condition (测试方法与条件)	Requirement (需求)		ent	
4-3	Contact removal Force (端子拔出力)	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm / minute.	3.0 Kgf min.			
4-4	Post Retention Force (保持力)	The end of a post shall be pushed in a perpendicular to base housing at a constand speed of 25 mm / minute.	1.0 Kgf min.			
4-5	Insertion Force (PIN 插入力)	Using 1.14mm square pin at a constant speed 25 mm / minute.	0.4	5 Kgf max.		
4-6	Withdrawal Force (PIN 拔出力)	Using 1.14mm square pin at a constant speed 25 mm / minute.	0.1	5 Kgf min.		
4-7	Mating and unmating force (only 4 position) (公母配合的插拔力)	Two mating connectors shall be fully mated or coupled at a rated specified.	See	parameters 6.		
4-8	Durability (耐久性)	It should be tested in accordance with method EIA-364-09. Connector shall be subjected to 30 cycles of insertion and withdrawal	No defects. Contact resistance shall be 20 mΩ max.			
5. Env	ironmental Performan	ce(环境特性):				
Item	Description (内容)	Test Method & Condition (测试方法与条件)		Requireme (需求)	nt	
5-1	Humidity (耐湿性)	The unmated connector shall be tested in accordance with method EIA6364-31. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.	in NO damage. Contact resistance les Than twice of initial. Insulation resistance: to paragraph. 3-2. Dielectric withstand ing voltage: to paragraph 3-		al. nce: nd ing	
5-2	Salt Spray (盐雾试验)	Connector shall be tested in accordance with method EIA-364-26. Temperature: 35±2 °C Density: 5 % in weight. Period: 48 hours.	NO damage. Contact resistance less than twice of initial.			
5-3	Solderability (着锡性)	Connector termination ends shall be checked for solderability in accordance with method EIA-364-252. Solder temperature: 260±5 °C Immersion period: 5±0.5 sec.	Mir	damage. nimum: 95 % of nersed area.	f	

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Item	Description (内容)	Test Method & Condition (测试方法与条件)	Requirement (需求)		nt		
5-4	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 :

Mating force and	unmating force :	Unit : Kgf			
Number of	Mating force(max.)	Unm			
circuits	Initial	Initial	6 th	30th	
02	1.8	0.25	0.15	0.08	
04	2.6	0.5	0.50	0.15	
06	4.10	0.8	0.85	0.33	
08	5.50	1.2	1.30	0.62	
10	6.80	1.6	1.85	1.00	
12	8.30	2.0	2.20	1.18	
14	9.70	2.4	2.65	1.47	
16	11.00	2.8	3.10	1.75	
18	12.50	3.2	3.30	1.90	
20	13.80	3.6	3.50	2.05	
22	15.20	4.1	3.75	2.25	
24	16.50	4.6	4.05	2.39	

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