

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-90-6700-1
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* 6700 F SERIES CONNECTORS SYSTEM *

This specification describes the characteristics, test condition and particular sanctions applicable to leoco 6700 F series connector socket and 6704,6714 crimp terminal.

1. Electrical performance 电气特性:

Item	Description 内容	Test Method & Condition 测试方法与条件	Requirement 需 求
1.1	Rated voltage And current 额定电压、电流	—	AC 250 V 7A DC 250V 7A
1.2	Contact Resistance 接触阻抗	Dry circuit of DC 50mV 50Ma max	20 miliohms max.
1.3	Dielectric Strength 耐电压	When applied AC 1500V 1 minute between adjacent terminal	No change
1.4	Insulation Resistance 绝缘电阻	When applied DC 500V between adjacent terminal or ground	1000 Megaohms min

2. Mechanical Performance 机械特性:

Item	Description 内容	Test Method & Condition 测试方法与条件	Requirement 需 求
2.1	Wire size 线材规格	Specified wire size	Accepts AWG#24-#16
2.2	Terminal crimp strength 铆合张力强度	When crimped AWG#16 size wire	12.0 Kgf min.
		When crimped AWG#18 size wire	10.0 Kgf min.
		When crimped AWG#20 size wire	8.0 Kgf min.
		When crimped AWG#22 size wire	6.3 Kgf min.
		When crimped AWG#24 size wire	4.5 Kgf min.
2.3	Terminal insertion force 接触插入力	Insertion speed 25+/-3 mm per minute into housing	1.70 Kgf per contact (max)
2.4	Terminal retention force 保持力	Retention speed 25+/-mm from housing per minute	3.0 Kgf min
2.5	Insertion Force 插入力	Connector socket with terminal mating plug at speed 25+/-3 mm per minute.(housing lock should be removed before test)	4.65 Kgf max per contact
2.6	Withdrawal Force 拨出力	Connector socket with terminal pull out from plug test under same condition asabove	2.55 Kgf (min) per contact
2.7	Durability 拨出力	When mated up to 60 cycle by the rere of 10 cycle per Minute.	Contact resistance: Less than twice of inital

3. Environmental Performance 环境特性 :

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Item	Description 内容	Test Method & Condition 测试方法与条件	Requirement 需求	
3.1	Temperature rise 升温测试	Then carried the rated current	30 Deg. C max.	
3.2	Vibration 振动测试	1.5mm 10-55-10HZ/minute each 2 hours for X,Y and Z directions	Discontinuity:1 micro second max. Appearance:no damage	
3.3	Shock 冲击测试	50G, each 3 times for X,Y&Z Directions Applying 0-1 A-DC	Discontinuity:1 micro second Max. Appearance: no damage	
3.4	Resistance to Soldering heat 附着耐热性	Solder time:5+/-0.5 second. Solder pot:260+/-5 Deg C	No damage	
3.5	Heat aging 热老化实验	85+/-2 Deg.C,500 hours	No damage	
3.6	Humidity 耐湿性	40+/-2 Deg.C,90-95% RH, 96 HRS Measurement must be Taken withen 30 min.after tested	Contact resistance: Less than twice of initial.	
			Dielectrice strength: To pass para 1-3	
			Appearance: No damage	
3.7	Temperature Cycling 温度循环实验	One cycle consists of: (1)-25+/-3 Deg. C 30 min (2)Room Temp. 10-15 min (3)85+/-2 Deg. C 30 min (4) Room Temp. 10-15 min	Appearance: No damage	
			Contact resistance: Less than twice of inital	
3.8	Salt Spray 盐雾试验	Temp:35+/-3 Deg. C Solution:5+/-1% Spray Time:48+/-4 hours. Measurement must be takenafter water rince.	Appearance: No damage	
			Contact resistance: Less than twice of inital	
3.9	S02 耐酸性	24 hours in sulfur dioxide gas (S02) 50+/-5PPMat 40+/-2 deg.C	Contact resistance: Less than twice of inital	
3.10	NH4 耐碱性	40 Minutes in saturated ammonia gas by 28% liquid ammonia at 25+/-2 DEG.C	Appearance: No damage	
			Contact resistance: Less than twice of inital	
4.AMBIENT TEMPERATURE RANGE 温度范围:-25 TO +85 degree C.				
5.CONSTRUCTION AND DIMENTIONAL 结构与尺寸:See attached drawings.				
APPR BY :		CHKD BY :	SPEC BY :	