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| LEOCO CORPORATION | PRODUCTION SPECIFICATION | No. | S-90-6700-3 |
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* 6700 M SERIES CONNECTORS SYSTEM *

This specification describes the characteristics, test condition and particular sanctions applicable to leoco 6700 m series connector socket and 6703,6713 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 | 4.65 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 header at speed 25+/-3 mm per minute.(housing lock should be removed before test) | 4.65 Kgf max |
| 2.6 | Withdrawal Force 拨出力 | Connector socket with terminal pull out from header test under same condition asabove | 2.55 Kgf (min) |
| 2.7 | Durability 耐久性 | When mated up to 60 cycle by The rere of 10 cycle per Minute. | Contact resistance: Less than twice of initial |

3. Environmental Performance 环境特性 :

| LEOCO CORPORATION | | PRODUCTION SPECIFICATION | | No. | S-90-6700-3 |
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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 温升测试 | 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 | Solderability 着锡性 | Soldering time:5+/-0.5 second. Soldering pot:245+/-5 Deg C | | Mininum:75% of Immersed area. | |
| 3-5 | Resistance to Soldering heat 附着耐热性 | Solder time:5+/-0.5 second. Solder pot:260+/-5 Deg C | | No damage | |
| 3-6 | Heat aging 热老化实验 | 85+/-2 Deg.C,500 hours | | No damage | |
| 3-7 | 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 | |
| 3-8 | 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 | |
| 3-9 | Salt Spray 盐雾试验 | Temp:35+/-3 Deg. C Solution:5+/-1% Spray Time:48+/-4 hours. Measurement must be taken After water rince. | | Appearance: No damage | |
| | | | | Contact resistance: Less than twice of inital | |
| 3-10 | S02 耐酸性 | 24 hours in sulfur dioxide gas (S02) 50+/-5PPMat 40+/-2 deg.C | | Contact resistance: Less than twice of inital | |
| 3-11 | 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 : | |