【1】适用范围 Scope:
此作业规范适用于： 0.5Pitch FFC 排线
This product specifications is applied for FFC Cable of Pitch 0.5

【2】构造 尺寸 材料 Configurations dimensions and materials :
参见结构图 Reference the drawing。

序号 No.	部 位 Position	材料 Material	规格 Spec	防火等级 FLAME CLASS	UL 编号 FILE NO.
1	绝缘膜 Insulating film	PET	65um	UL758 VW-1	
2	绝缘膜 Insulating film	PET	65um	UL758 VW-1	
3	补强板 Stiffener Bonding	PET	蓝色，218um		
4	导体 Conductor	镀锡铜线	Sn(1um) MIN		

【3】标准状态:
3.1 额定电压 Rating voltage: AC/DC 60V
3.2 额定电流 Rating current: 0.5A
3.3 温湿度范围 Temperature and humidity range
3.3.1 使用温度范围 operation temperature：-40℃~+105℃;
3.3.2 储存温度范围 storage temperature：10℃~35℃;

【4】性能 Performance
4.1 构造 Structure

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	外观 Appearance	目视 Visual	无损坏 No physical damage

4.2 电气性能 Electrical Performance

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	导体阻抗 Conductor Resistance	JIS-C-3102(at20℃)	2.2Ω/M MAX
2	导通测试 Continuity test	3.0 V DC at 0.1mA	passed
3	绝缘阻抗 Insulation Resistance	相邻 PIN 间加 DC 500V，时间 1 分钟 参考标准：EIA-364-21C Add DC 500V between adjacent PINs for 1 minute Guideline: EIA-364-21C	500MΩ MIN
4	耐电压 Dielectric withstanding voltage	相邻 PIN 间加 AC 500V,时间 1 分钟 参考标准：EIA-364-20C Add AC 500V between adjacent PINs, time 1 minute Guideline: EIA-364-20C	无击穿 No Breakdown. 漏电流小于 1mA Leakage current is less than 1.0mA

4.3 机械性能 Mechanical performance

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	插拔耐久性 Durability	与 FPC 掀盖式连接器匹配，重复插拔 10 次 参考标准：EIA-364-13D Continues with the connectors for 10 cycles. Guideline:EIA-364-13D	导体与绝缘体无剥离 No stripping between conductor and insulator

2	耐磨测试 Abrasion Test	测试块尖角 R0.5mm, 600g(UL:450g),60cycles/min 10000 Time Min	外观：绝缘层无破裂 电气性能，满足规格要求。 Appearance: no cracks in the insulating layer The electrical performance meets the specification requirements.
3	导体与绝缘膜的密着力 Between Conductor and Insulator	以 150mm/min 的速度，将导体以 180 度角度拉拔测试 At a speed of 150mm/min, the conductor is pulled and tested at an angle of 180 degrees	20gf/PIN MIN
4	弯折 Bending	600g 重物垂吊夹具，0.5R 180º以 60 次/分钟的速度往复运动，耐曲折测试 20 次 MIN 600g heavy object hanging fixture, 0.5R 180º reciprocating motion at a speed of 60 times/min, bending resistance test 20 times MIN	外观：绝缘层无破裂 电气性能，满足规格要求。 Appearance: no cracks in the insulating layer The electrical performance meets the specification requirements.

4.4 环境性能和其它 Environmental Performance and Others

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	耐热性 Heat Resistance	与 FPC 连接器匹配后，在温度 125±3℃度的环境中放置 1008H 参考标准：EIA-364-17B After matching with the FPC connector, put it in an environment with a temperature of 125±3℃ for 1008 hours Guideline:EIA-364-17B	1.电气性能满足规格要求 2.外观：无异常，绝缘层无溢胶现象 1.The electrical performance meets the specification requirements 2.Appearance: no abnormality, no glue overflow in the insulating layer

2	高温高湿测试 High temperature and high humidity test	与 FPC 连接器匹配后，在温度：85℃，湿度 85％RH 的环境中放置 1008H 参考标准：EIA-364-31B After matching with FPC connector, place 1008H in the environment of temperature: 85℃, humidity 85%RH Guideline: EIA-364-31B	1.电气性能满足规格要求 2.外观：无异常，绝缘层无溢胶现象 1.The electrical performance meets the specification requirements 2.Appearance: no abnormality, no glue overflow in the insulating layer
3	温度冲击 Temperature Shock	与 FPC 连接器匹配后，在温度：-40℃~125℃,各停留 30 分钟，传输时间≤30S 的环境中测试 100 次 参考标准：EIA-364-17B After matching with the FPC connector, test 100 times in the environment where the temperature is -40° C~125° C, each stay for 30 minutes, and the transmission time is less than or equal to 30S. Guideline: EIA-364-17B	1.电气性能满足规格要求 2.外观：无异常，绝缘层无溢胶现象 1.The electrical performance meets the specification requirements 2.Appearance: no abnormality, no glue overflow in the insulating layer
4	阻燃测试 flame retardant test	UL 758 VW-1	Passed

(　　)：参考规格 Reference Standard

{　　}：参考单位 Reference Unit